2016-2017

Report on

Faculty Development Programme

On

Digital Forensics
By

Department of CSE and IT

THE NORTHCAP UNIVERSITY, GURGAON

On

4th – 8th July, 2016

Report on Digital Forensics

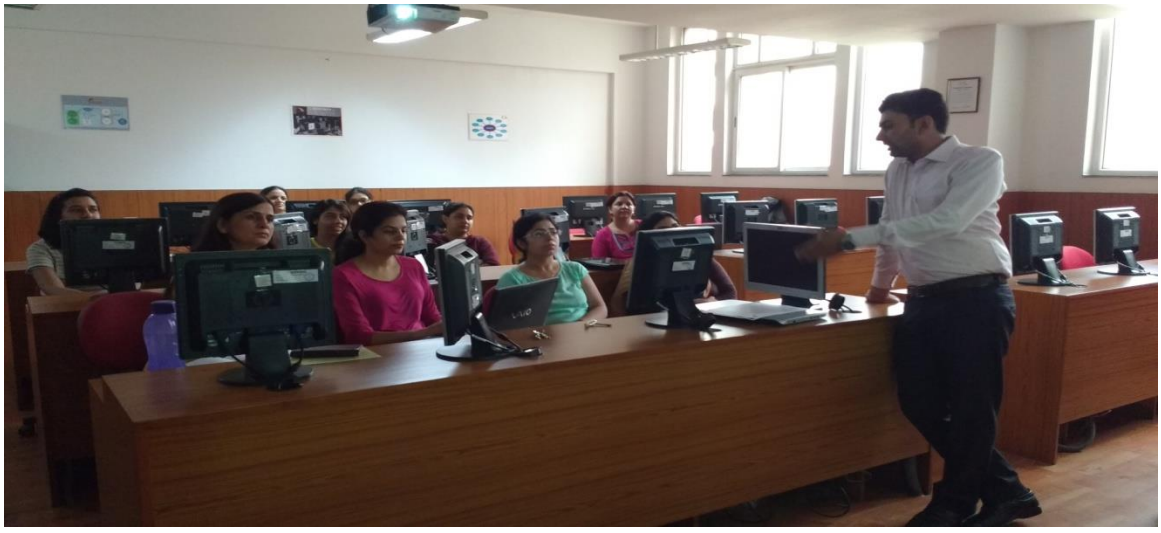
Department of CSE & IT successfully conducted a Faculty Development Program on “Digital Forensics”. Since the field of digital forensics has become increasingly more important over the last few years as both the computer and the cellular market has grown. Digital forensics describes the process of going into a technological device such as a computer or a cellphone in order to monitor the activity on these items and determine if the item has been hacked previously and/or is being watched. This field is constantly evolving and adjusting to meet the demand and new technologies released and it is ever growing with the digital market.

With this aim department invited an Alumni from ITB Ireland to provide deep knowledge by emphasizing on problem solving in subject area. FDP was conducted for 4 days from 4th – 8th July, 2016 form 10 am to 4 pm

Outcome:

12 faculty members attended the FDP and gained problem solving capability in the field of Digital Forensics with the help of recent tools and technologies.

1. Dr. Prachi
2. Dr. Kavita Khanna
3. Dr. Supriya Raheja
4. Dr. Shilpa Mahajan
5. Dr. Yogita Gigras
6. Ms. Rita Chikkara
7. Ms. Mehak Khurana
8. Ms. Richa Chabbra
9. Ms. Jyotika Pruthi
10. Ms. Neha Sahu
11. Ms. Heena
12. Ms. Hitesh



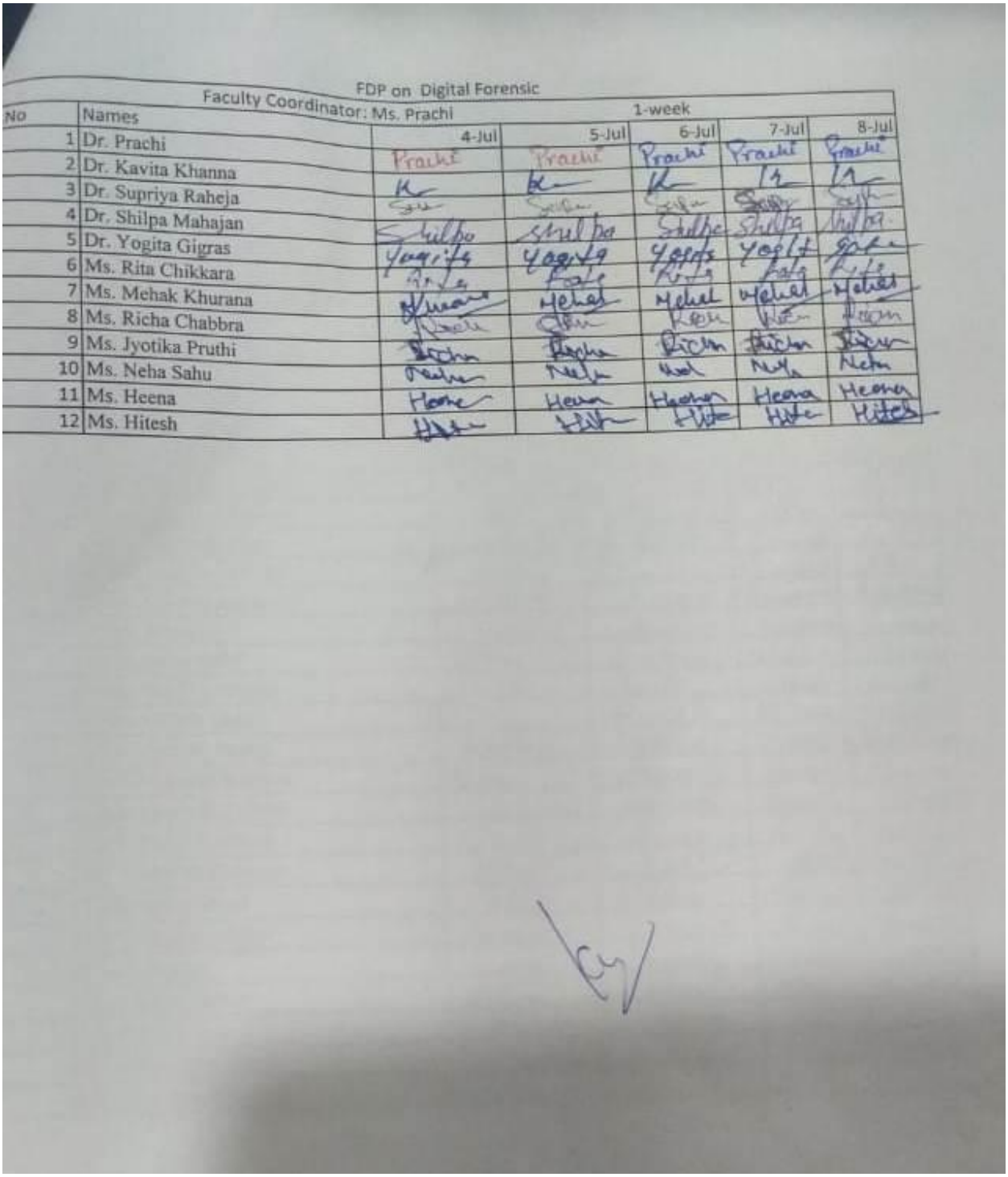
During the FDP faculty perform hands-on exercises on 2 modules:

1. Digital Forensics
2. Network Forensics

In digital forensics, digital data preservation, analysis and extraction of sensitive information from real-life crime cases is done with the help of Forensics Toolkit. Moreover, faculty retrieved permanently deleted files from the storage devices.

Network Forensics was performed with the help of latest tools such as Wireshark, Nmap and Network Miner.

Attendance Sheet



FDP on Digital Forensic

Faculty Coordinator: Ms. Prachi — 1-week

No	Names	4-Jul	5-Jul	6-Jul	7-Jul	8-Jul
1	Dr. Prachi	Prachi	Prachi	Prachi	Prachi	Prachi
2	Dr. Kavita Khanna					
3	Dr. Supriya Raheja					
4	Dr. Shilpa Mahajan	Shilpa	Shilpa	Shilpa	Shilpa	Shilpa
5	Dr. Yogita Gigras	Yogita	Yogita	Yogita	Yogita	
6	Ms. Rita Chikkara					
7	Ms. Mehak Khurana		Mehak	Mehak	Mehak	Mehak
8	Ms. Richa Chabbra					
9	Ms. Jyotika Pruthi					
10	Ms. Neha Sahu					
11	Ms. Heena		Heena	Heena	Heena	Heena
12	Ms. Hitesh					

Report on

Faculty Development Programme

On

Application Development using BlueMix in Association with IBM

By

Department of CSE and IT

THE NORTHCAP UNIVERSITY, GURGAON

On

11July-14July 2016

Faculty Development Program on
"Application Development using IBM BlueMix"
July 11th– 14th 2016
Department of Computer Sciences in collaboration with IBM

About the Technology:

Conversations with leaders around the world revealed a new primary challenge-complexity. How can CEOs connect with customers in imaginative ways and design their operations for speed and flexibility? Cloud computing - the deployment of network-based applications in a highly flexible, shared IT environment - is becoming a key enabler of better service delivery and greater value in today's business landscape. It offers a number of major advantages over more traditional application deployment models, including the more efficient use of IT and development resources, easier and less costly maintenance, and the ability to deliver consistent services through a variety of channels. Cloud computing also makes it easier for businesses to partner and bring enhanced composite service offerings to market very quickly. But developing cloud-based applications requires new approaches that address the unique requirements of software-as-a-service. IBM Application Development Services for Cloud delivers on the promise of cloud application development by building custom cloud applications from implementation planning to design, development and deployment.

About the Course:

BlueMix, its Platform-as-a-Service (PaaS) to help developers quickly integrate applications and speed deployment of new cloud services. Built on open standards and leveraging Cloud Foundry, BlueMix has made major advancements since being announced in February, including:

-- Cloud integration services to enable a secure connection between an organization's public applications and private data

-- Swift, secure and fast connections, via the cloud, between Internet of Things and machine to machine device to store, query and visualize data

-- Data and analytics-as-a-service to allow the rapid design and scale of applications that turn Big Data into competitive intelligence

-- DevOps services that support the complete developer lifecycle BlueMix combining the strength of IBM's middleware software with third-party and open technologies to create an integrated development experience in the cloud. Using an open cloud environment, BlueMix helps both born-on-the-web and enterprise developers build applications with their choice of tools. With the ability to easily combine a variety of

services and APIs from across the industry to compose, test and scale custom applications, developers will be able to cut deployment time from months to minutes.

This course is designed to teach how to build applications deployment to the cloud platforms using BlueMix.

Pre requisite:

To benefit from this course, following are the skills or experience required:
-- Java Programming
-- Familiarity with Java EE for Web development (HTML, JSPs, and Servlets)
-- Experience using relational databases
-- The design-implement-test-deploy stages of application development
-- Object-oriented design and analysis.

Day wise Schedule for Faculty Development Program

Day 1: Introduction to Bluemix

Cloud computing overview
Consumption View – IaaS (Soft Layer), PaaS (IBM Bluemix),
Blue Mix Architecture
Blue Mix Overview and Dashboard
Setup and installations - Eclipse and CF plugins

Lab Exercise: Building an Application from a Boilerplate in the Bluemix UIDeploying a Java web app that uses the PostGreSQL service with the IBM Bluemix Eclipse tools
Lab Exercise: Building and Deploying the Java version with the IBM Bluemix Eclipse tools.

Day 2: Development of Apps using Bluemix Services

Registering Services in BluemixTM

Lab Exercise: Deploying a Node.js app that uses the MySQL service with command line tools

Lab Exercise: Build a Twitter Influencer Application in Bluemix, Bluemix Eclipse tools

Day 3: Development of Apps using Dev Ops Services on Blue Mix

Overview of Dev Ops
Overview Bluemix DevOps Services

Lab Exercise: Importing and Deploying Application from DevOps,
Lab Exercise: JEE Cloud Trader Benchmark Application on Bluemix that use performance analysis capabilities

Day 4 – Bluemix Services in Mobility & Big Data

Overview of Services in the areas of Mobile Apps Development & Big Data.

Lab Exercise: Building an Application with Mobile Backend as a Service on BlueMix.
Lab Exercise: Data Management service - Build a BI application using Map Reduce Service to perform analytics for Big Data Sets.

SPEAKER PROFILE

Anupam Bhattacharya is an Application Architect in the Client Innovation Centre of IBM with specific focus on J2EE Application architecture and Service Oriented Architecture practice area. Anupam has over 18 years of experience in system architecture, technical design and custom application development in multiple software environments for various clients in the USA, Europe and India in Travel and Transportation (T&T), Consumer Packaged Goods (CPG), Retail and Life Sciences industries.

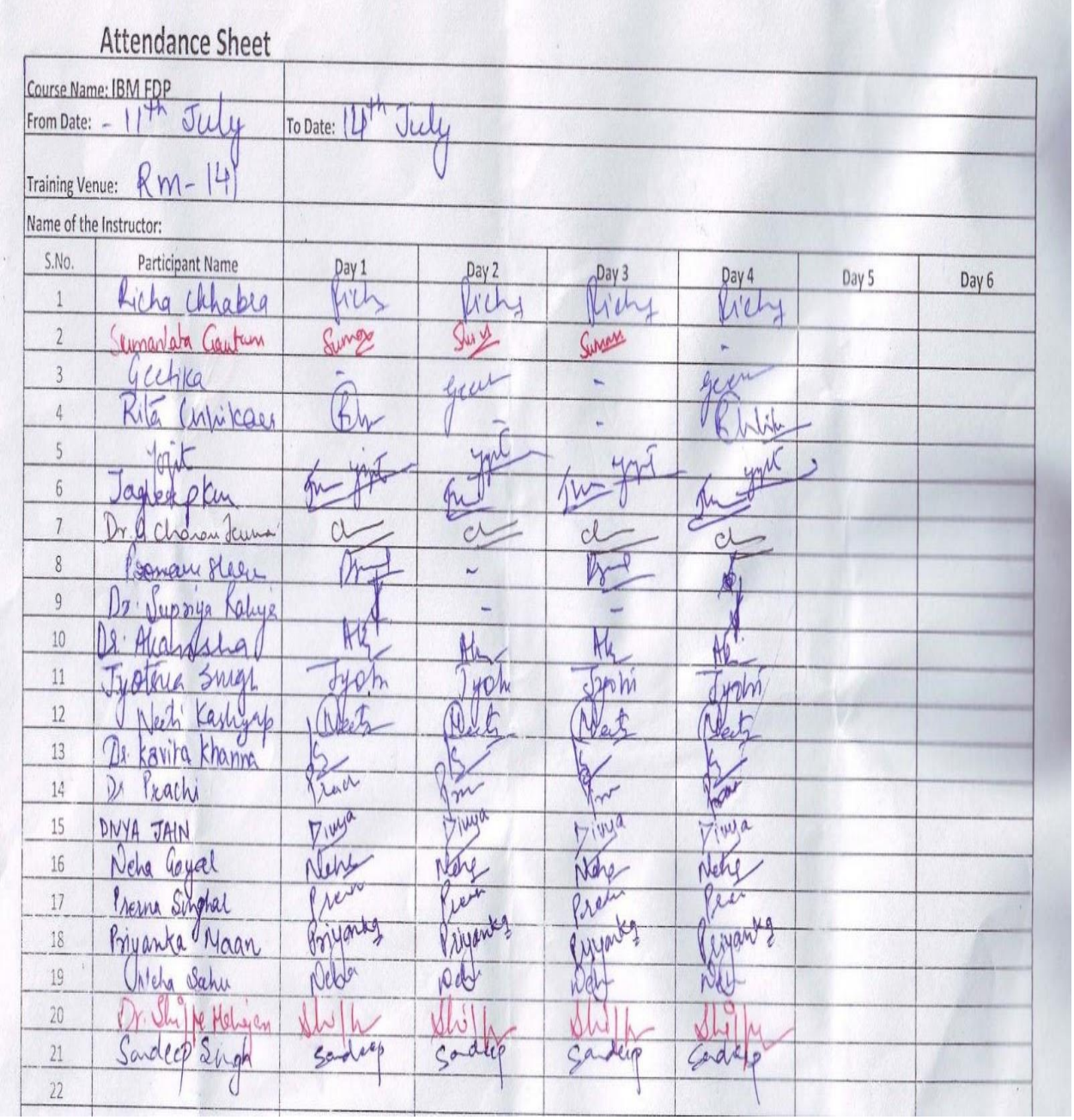
In IBM Anupam has been actively involved in the Architecture Group in solution development, delivery of complex projects and in mentoring practitioners in the J2EE skills area.

Anupam is currently working as an Application Architect for the Cloud Services Initiative at IBM India Global Delivery Centre. He is part of the Core GBS Cloud

team and is contributing to the creation of assets and best practices in developing Web and Mobile application on cloud.

Anupam holds a Bachelor degree in Computer Science from Jadavpur University and a Post Graduate Diploma in Management from Indian Institute of Management (Calcutta).

Attendance Sheet



Attendance Sheet

Course Name: IBM FDP

From Date: - 11th July | To Date: 14th July

Training Venue: Rm-141

Name of the Instructor:

S.No.	Participant Name	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
1	Richa Chhabra	Richa	Richa	Richa	Richa		
2	Sumanlata Gautam	Sumana	Sumana	Sumana	-		
3	Geetika	-	Geetika	-	Geetika		
4	Rita Chhikara	Rita	-	-	Rita		
5	Yojit	Yojit	Yojit	Yojit	Yojit		
6	Jagdeep Kum	Jagdeep	Jagdeep	Jagdeep	Jagdeep		
7	Dr. G Charan Kumar	[illegible]	[illegible]	[illegible]	[illegible]		
8	Pramam Sharma	[illegible]	-	[illegible]	[illegible]		
9	Dr. Supriya Rahiya	[illegible]	-	-	[illegible]		
10	Dr. Akansha	Akansha	Akansha	Akansha	Akansha		
11	Jyotsna Singh	Jyoti	Jyoti	Jyoti	Jyoti		
12	Neeti Kashyap	Neeti	Neeti	Neeti	Neeti		
13	Dr. Kavita Khanna	[illegible]	[illegible]	[illegible]	[illegible]		
14	Dr. Prachi	Prachi	Prachi	Prachi	Prachi		
15	DIVYA JAIN	Divya	Divya	Divya	Divya		
16	Neha Goyal	Neha	Neha	Neha	Neha		
17	Prerna Singhal	Prerna	Prerna	Prerna	Prerna		
18	Priyanka Maan	Priyanka	Priyanka	Priyanka	Priyanka		
19	Neha Sahu	Neha	Neha	Neha	Neha		
20	Dr. Shilpe Mahajan	Shilpe	Shilpe	Shilpe	Shilpe		
21	Sandeep Singh	Sandeep	Sandeep	Sandeep	Sandeep		
22							

NCU
THE NORTHCAP UNIVERSITY
NAAC ACCREDITED

The NorthCap University, Gurugram

Faculty Development Program

5 June, 2017-10 June, 2017

Internet of Things

Advance Concepts & Design Methodologis in Designing IOT Systems

INFORMATION

Hands on Experience on Sensors, Raspberry Pi & Arduino with interfacing of devices
Configuring and uploading data on Cloud
Numpy Python Package

PosterMyWall.com

TABLE OF CONTENTS

Sr. No	Details	Page No
1	Objectives and Outcomes of the Program	3
2	Resource Person Details	4
3	Venue and Time	4
4	Day Wise Course Contents	6-7
5	Photo Gallery	8-9
6	Attendance Sheet/participant List	10

FACULTY DEVELOPMENT PROGRAM

Department of Computer Science & Engineering

OBJECTIVES

Internet of Things (IoT) is a leading technology nowadays and constitutes one of the most promising industries impacting almost all verticals of the world. Thus the fast growing pace of IoT industry cannot be overlooked.

As a part of our endeavour to deliver only the best-in-class industry oriented and future ready teaching for the students we need to train our students in this field. In order to train the students, the faculty should have appropriate knowledge, exposure and hands on experience on the subject.

With this aim in mind the Department of Computer Science and Engineering conducted a faculty development program (FDP) on Internet of Things from 5th June, 2017- 10th June, 2017.

OUTCOMES

This FDP has been successful in inculcating an in-depth knowledge on all aspects of IOT. It provided hands on experience on the implementation of IOT hardware and software. This FDP has led the faculty to gain ideas on to the various applications of IOT and also the possibility of various projects in the field.

RESOURCE PERSON

Mr Anshu Pandey

Senior Technical Trainer
Collabera TACT

Mr Anshu Pandey is a technical expert and a passionate trainer having a keen interest in Research & Development, Technical Training and Project Management. He has a proven work record of delivering more than 100 workshops and Technical Training in various technologies and domains at the premier organizations including IITs, NITs and other premier educational organizations & corporate companies.

He has delivered online training on Machine Learning, Artificial Intelligence and Internet of things to clients from Saudi Countries, South Africa, Bangladesh and United States.

He is an IoT Trainer, having expertise in AVR, ARM, 8051, Arduino, Raspberry Pi, ESP8266, Python, Embedded C, BASCOM AVR, HTML, CSS, PHP, MySQL, Qt Framework, Cloud Computing, Web Designing & Development etc.

Having a rich work experience in diverse domains including Business Development, Educational Training, Tech R & D operations, Market Analysis makes him a complete package of everything which can be used to start working in almost all domains.

VENUE AND TIME

Room No: 124
8:30 AM to 5:00 PM

- 8:30 am to 10:30 am-Technical Training
- 10:30 am to 10:45 am- Tea
- 10:45 am to 1:30 pm- Technical Training
- 1:30 pm to 2:00 pm- Lunch
- 2:00 pm to 5:00 pm Technical Training

COURSE CONTENTS

Day Wise course contents covered during FDP are as follows

Day 1:

- Introduction- Concepts and Technologies behind Internet of Things (IoT)
- Concepts & Definitions –Identification, localization, wireless protocols, data storage and security
- Collecting, communicating, coordinating, and leveraging the data from connected devices
- Understand how to develop and implement IoT technologies, solutions, and applications.
- Machine Learning, Distributed Computing, Artificial Intelligence
- IoT Architecture
- IoT Device Architecture
- IoT Network Architecture
- IoT Application Architecture
- Getting started with IoT Hardware Layer
- Microcontrollers- Working and getting started
- Hands on: Interfacing switches and LEDs with MCUs
- IoT Protocols – UART, USART
- Sensors – Classification & selection criteria based on nature, frequency and amplitude of signal
- Hands on: Interfacing sensor (Analog & Digital) with MCUs

Day 2:

- IoT Physical Layer Protocols – Cellular, Zigbee, Bluetooth, sigfox, thread, zwave, NFC, wifi
- Getting started with Bluetooth
- Hands on: Setting up wireless (bluetooth) link between systems
- Hands on: Configuring bluetooth module by using AT commands
- Getting started with ESP8266 wifi module
- Hands on: Configuring and uploading data on cloud using WiFi ESP8266 module using AT commands
- IoT Application Layer Protocols – HTTP, CoAP, XMPP, AMQP, Websockets & MQTT
- Hands on: Setting up HTTP server and testing HTTP methods on local host and with cloud
- Hands on: Making ESP8266 as an HTTP client to upload sensor data to thingspeak.com cloud
- Hands on: Making esp8266 tweet on twitter
- Installing Node-red
- Hands on: Uploading data on multiple cloud plaVorms using node-red
- Hands on: Nodered with Arduino
- Hands on: Interfacing sensors and other peripherals using SPI and I2C communication protocols

Day 3:

- Getting started with Python & Raspberry Pi
- Hands on: Installation of Python, Vpython
- Learning python fundamentals and programming
- Hands on: Installation & usage of Numpy python package
- Hands on: Working with arrays using Numpy package
- Hands on: Working with 2D/3D graphics using Vpython package
- Running python on Raspberry Pi, GPIO programming
- Serial communication using python
- Controlling Arduino using Python
- Getting started with Raspberry pi
- Hands on: LED Controlling in RPi using Python
- Hands on: Sensor Interfacing with Rpi
- Hands on: Switch Interfacing with Rpi

Day 4:

- Hands on: HTTP Client Programming using Python
- HTTP, MQTT, CoAP, AMQP, XMPP
- Hands on: Installing MQTT Broker on Raspberry pi
- Testing Publish & Subscribe methods
- Hands on: Installing paho client for MQTT
- Hands on: Connecting to local MQTT Brokers
- Connecting to Global MQTT broker
- Hands on: Controlling devices using Android over MQTT
- Introduction to Web sockets
- Hands on: Programming Arduino+ESP8266 to connect to MQTT Broker
- I2C & SPI Protocols
- Micro python & Lua
- Hands on: Programming web sockets
- Transport Layer Protocols in IoT
- TCP V/s UDP
- Hands on: Making TCP Server & Client
- Hands on: Making UDP server & Client
- HTTP v/s CoAP
    - Hands
- Hands on: Programming for CoAP

Day 5:

- Getting started with Cayenne Cloud
- Cloud Computing & IoT
- Data Analytics
- Hands on: AWS IoT cloud
    - Device Registration
    - Device shadow
    - Rule Action

- Interfacing Raspberry Pi with AWS IOT
- Generating Email, SMS Triggers
- Storing data on Dynamo DB

- Hands on: Getting started with PubNub
- IOT Revisited –
- Application and Use cases of IoT
- Best Hardware Platforms for IOT – Arduino/RPi/Intel Galileo/Edison/Beaglebone Black
- Best Programming Languages for IoT
- Companies and products in IoT Industry in India
- IoT OSI Model
- IoT Physical Layer Protocols
- IoT Network Layer Protocols
- IoT Transport Layer Protocols
- IoT Sensors
- IoT Actuators

Day 6

- Office 365

PHOTO GALLERY

Dr Kavita Khanna
Coordinator-FDP

Dr Latika Singh
HoD CSE/IT

17-18-1

Attendance Sheet

05/06/17

Department of CSE & IT

FDP Attendance (5 June - 09 June 2017)

S. NO.	NAME	Session 1 (Sign)	Session 2 (Sign)
1	Dr. Latika Singh	Latika	Latika
2	Dr. Kavita Khanna		
3	Dr. Vijender Singh		
4	Dr. Prachi Ahlawat		
5	Dr. Akansha Singh		
6	Dr. A. Charan Kumari		
7	Dr. Yogita Gigras		
8	Dr. Supriya Raheja	Supriya	Supriya
9	Dr. Shilpa Mahajan		
10	Ms. Jyotsna Singh	Jyotsna	Jyotsna
11	Mr. Sandeep Singh		
12	Ms. Suman Bhatia		
13	Ms. Jagdeep Kaur		
14	Ms. Meghna Sharma	ABSENT	ABSENT
15	Ms. Sumanlata Gautam		
16	Ms. Anuradha		
17	Ms. Geetika		
18	Ms. Neeti Kashyap		
19	Ms. Hitesh Yadav		
20	Ms. Neha Sahu		
21	Ms. Richa Chhabra		
22	Ms. Jyotika Pruthi	Jyotika	Jyotika
23	Ms. Rita Chhikara		
24	Ms. Jyoti Sahni	Jyoti	Jyoti
25	Ms. Mehak Khurana		
26	Ms. Prerna Singal	ABSENT	ABSENT
27	Ms. Garima Sharma		
28	Ms. Priyanka Maan		
29	Dr Priyanka Desai		
30	Ms Divya Jain		
31	MS. SURBHI DEWAN		

06/06/17

Department of CSE & IT

FDP Attendance (5 June - 09 June 2017)

S. NO.	NAME	Session 1 (Sign)	Session 2 (Sign)
1	Dr. Latika Singh		
2	Dr. Kavita Khanna		
3	Dr. Vijender Singh		
4	Dr. Prachi Ahlawat		
5	Dr. Akansha Singh		
6	Dr. A. Charan Kumari		
7	Dr. Yogita Gigras		
8	Dr. Supriya Raheja		
9	Dr. Shilpa Mahajan		
10	Ms. Jyotsna Singh		
11	Mr. Sandeep Singh		
12	Ms. Suman Bhatia	ABSENT	ABSENT
13	Ms. Jagdeep Kaur		
14	Ms. Meghna Sharma	ABSENT	ABSENT
15	Ms. Sumanlata Gautam		
16	Ms. Anuradha		
17	Ms. Geetika		
18	Ms. Neeti Kashyap		
19	Ms. Hitesh Yadav		
20	Ms. Neha Sahu		
21	Ms. Richa Chhabra		
22	Ms. Jyotika Pruthi		
23	Ms. Rita Chhikara		
24	Ms. Jyoti Sahni		
25	Ms. Mehak Khurana		
26	Ms. Prerna Singal		
27	Ms. Garima Sharma		
28	Ms. Priyanka Maan		
29	Dr Priyanka Desai	6/6/17	6/6/17
30	Ms Divya Jain		
31.	Ms. Subbhi Dewan		
32	Ms. Kavika Gupta		

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07/06/2017

Department of CSE & IT

FDP Attendance (5 June - 09 June 2017)

S. NO.	NAME	Session 1 (Sign)	Session 2 (Sign)
1	Dr. Latika Singh		
2	Dr. Kavita Khanna		
3	Dr. Vijender Singh		
4	Dr. Prachi Ahlawat		
5	Dr. Akansha Singh		
6	Dr. A. Charan Kumari		
7	Dr. Yogita Gigras		
8	Dr. Supriya Raheja		
9	Dr. Shilpa Mahajan		
10	Ms. Jyotsna Singh		
11	Mr. Sandeep Singh		
12	Ms. Suman Bhatia		
13	Ms. Jagdeep Kaur		
14	Ms. Meghna Sharma	ABSENT	ABSENT
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16	Ms. Anuradha		
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19	Ms. Hitesh Yadav		
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21	Ms. Richa Chhabra		
22	Ms. Jyotika Pruthi		
23	Ms. Rita Chhikara		
24	Ms. Jyoti Sahni		
25	Ms. Mehak Khurana		
26	Ms. Prerna Singal		
27	Ms. Garima Sharma		
28	Ms. Priyanka Maan		
29	Dr Priyanka Desai		
30	Ms Divya Jain		
31	Ms. Surbhi Dewan		
32	Ms. Kavita Gupta		

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08/06/2017

Department of CSE & IT

FDP Attendance (5 June - 09 June 2017)

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9	Dr. Shilpa Mahajan		
10	Ms. Jyotsna Singh		
11	Mr. Sandeep Singh		
12	Ms. Suman Bhatia		
13	Ms. Jagdeep Kaur		
14	Ms. Meghna Sharma	ABSENT	
15	Ms. Sumanlata Gautam		
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17	Ms. Geetika		
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20	Ms. Neha Sahu		
21	Ms. Richa Chhabra		
22	Ms. Jyotika Pruthi		
23	Ms. Rita Chhikara		
24	Ms. Jyoti Sahni		
25	Ms. Mehak Khurana		
26	Ms. Prerna Singal		
27	Ms. Garima Sharma		
28	Ms. Priyanka Maan		
29	Dr Priyanka Desai		
30	Ms Divya Jain		
31	Ms SURBHI DEWAN		
32	Ms. Kanika Gupta		

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09/06/17

Department of CSE & IT

FDP Attendance (5 June - 09 June 2017)

S. NO.	NAME	Session 1 (Sign)	Session 2 (Sign)
1	Dr. Latika Singh		
2	Dr. Kavita Khanna		
3	Dr. Vijender Singh		
4	Dr. Prachi Ahlawat		
5	Dr. Akansha Singh		
6	Dr. A. Charan Kumari		
7	Dr. Yogita Gigras		
8	Dr. Supriya Raheja		
9	Dr. Shilpa Mahajan		
10	Ms. Jyotsna Singh		
11	Mr. Sandeep Singh		
12	Ms. Suman Bhatia		
13	Ms. Jagdeep Kaur		
14	Ms. Meghna Sharma	ABSENT	ABSENT
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16	Ms. Anuradha		
17	Ms. Geetika		
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19	Ms. Hitesh Yadav		
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22	Ms. Jyotika Pruthi		
23	Ms. Rita Chhikara		
24	Ms. Jyoti Sahni		
25	Ms. Mehak Khurana		
26	Ms. Prerna Singal		
27	Ms. Garima Sharma		
28	Ms. Priyanka Maan		
29	Dr Priyanka Desai		
30	Ms Divya Jain		
31	Ms. Surbhi Dewan		
32	Ms Kavita Gupta		

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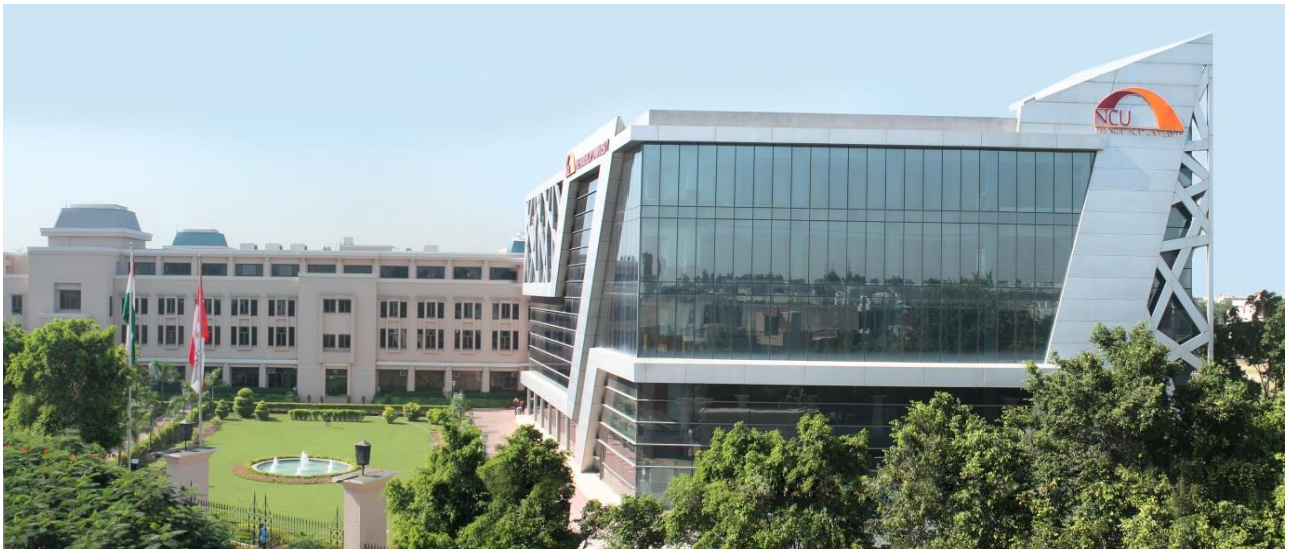
UNIVERSITY LEVEL
FACULTY DEVELOPMENT PROGRAM(FDP)
REPORT
on
Teaching Pedagogy

(08-14 December 2016)



CONTENTS

S. No.	Details	Pg No.
1	Introduction to 6 days Faculty Development Program (FDP)	3
2	University Level FDP Schedule	4
3	Brief Summary of FDP Session Topics and Speakers	5-34
5	Picture Gallery	35-45

INTRODUCTION OF FACULTY DEVELOPMENT PROGRAM

Faculty Development Programmes (FDP) is designed to upgrade and rejuvenate faculty in their respective disciplines delivered by experts through a variety of methods and programs. The main objective is to train and develop faculty members so that they can act as resource persons in their field of work. FDPs aims at equipping teachers with skills and knowledge that are essential for inculcating values in students and guiding and monitoring their progress As per ongoing practice at NCU, FDPs are conducted in formal manner to improve the performance and self-fulfilment of their employees discipline through a series of lectures, case study, audio visual trainings, online, interactions, workshops, invited talks by eminent subject experts.

In recent years, training and development has emerged as a formal business function, an integral element of strategy, and a recognized profession with distinct theories and methodologies. To ensure on-going progress and "continual learning", FDPs are organized to promote employee growth. Such development programs are very vital in any company or organization that aims at progressing. It puts emphasis on broader skills, which are applicable in a wide range of situations and aims to expand the knowledge base of all employees. Both employer and employees as a whole, benefit from these programs. Providing the necessary training creates an overall knowledgeable staff with employees who can take over for one another as needed, work on teams or work independently without constant help and supervision from others. An employee who receives the necessary training is better able to perform her job. She becomes more aware of safety practices and proper procedures for basic tasks. The training may also build the employee's confidence because she has a stronger understanding of the industry and the responsibilities of her job. This confidence may push her to perform even better and think of new ideas that help her excel. Continuous training also keeps your employees on the cutting edge of industry developments. Employees who are competent and on top of changing industry standards help your company hold a position as a leader and strong competitor within the industry.

On-going sessions are organized by department, to ensure continuous progress and "continual learning", and promote employee growth. Such development programs are very vital in any company or organization that aims at progressing. It puts emphasis on broader skills, which are applicable in a wide range of situations and aims to expand the knowledge base of all employees.

In addition, a 6 day long Faculty Development Program is conducted at the end of each semester to enhance academic and intellectual environment and give enough opportunities to the faculty members to update their pedagogical and research skills. In a year, two such 6 days long FDPs are conducted during Summer and Winter non-teaching period which are organized by respective depts. for their faculty. However, this time apart from dept. level FDPs, a series of common inter- disciplinary University level FDPs was organized addressing all faculty at one platform. The aim is to increase knowledge, broaden perspectives and make faculty understand about the changing role in the society from renowned speakers and promote inter-disciplinary learning by bringing all faculty together.

In nutshell, FDPs aims at equipping teachers with skills and knowledge that are essential for inculcating values in students and guiding and monitoring their progress.

UNIVERSITY LEVEL WINTER FDP SCHEDULE

(08 - 14 DECEMBER 2016)

SNo	Name	Topic	Pg
1	Prof. Prem Vrat (Internal speaker)	Enhancing Learning Effectiveness in Higher Technical Education: Opportunities & Challenges	5
2	Prof. K.L Chopra	Plasma Processing of Thin Films and Nanomaterials	7
3	Prof. Pushpesh Pant (Internal Speaker)	Excellence in Teaching and Research: Challenges and Problems in Contemporary India	9
4	Prof. Ajoy Ghatak	Importance of Light	11
5	Prof. Swaran Ahuja (Internal Speaker)	Review & Implementation of Teaching Learning Processes at NCU- New Guidelines	14
6	Prof Ravindra Ojha (Internal Speaker)	Towards Better Employability – Initiative through CoCubes	16
7	Maj. Gen. A. K. Chaturvedi	Energy Security of India	18
8	Mr Sachin Jain	Ethos of Management	21
9	Prof Karmeshu	Mathematical Modeling and its pervasiveness across disciplines	23
10	Dr. Vinnie Jauhari	Technology Leading to Engaged Experiences in Learning	25
11	Dr Pramath R Sinha (Internal speaker)	Incorporating 21st century learning into the classroom	28
12	Mr. Avijit Das	Entrepreneurship and Start-ups: Some experiential facts	30
13	Mr Krishnan Raman	Leading in the Knowledge Worker Era	33

BRIEF SUMMARY OF FDP SESSION AND SPEAKER:

SPEAKER: PROF PREM VRAT

TOPIC: "ENHANCING LEARNING EFFECTIVENESS IN HIGHER TECHNICAL EDUCATION: OPPORTUNITY AND CHALLENGES"

SUMMARY:

The lecture focused on a paradigm shift from conventional teaching centric education to learning centric approach and identified the need to manage learner diversity using educational technology for mass customization of technical education in India to exploit the 'demographic dividend'. Global employability can become a single comprehensive performance measure of quality of education, which combines in an optimal manner the three attributes of learning- Attitude knowledge and skills. The lecture identified top five attributes of enablers of 'employability' as faculty quality; teaching-learning process, visionary academic leadership, quality of admission and physical infrastructural in that order of priority. In identified the changing role of a teacher as one who could inspire, involve and transform students' employability. A TQM based approach of enhancing learning effectiveness was elaborated.

BRIEF PROFILE:

PROF. PREM VRAT
PRO-CHANCELLOR; PROFESSOR OF EMINENCE
& CHIEF MENTOR, NCU
PHD, IIT DELHI, M.TECH, B.TECH (HONS), IIT KHARAGPUR
FNAE, FNASC,FWAPS, FISTE, FIIIE

An outstanding academic, Prof. Prem Vrat, is the Pro-Chancellor; Professor of Eminence and Chief Mentor at The NorthCap University formerly ITM University, Gurgaon. Just prior to joining NCU as the Vice-Chancellor, in September 2011, he was Professor of Eminence at the Management Development Institute (MDI), Gurgaon. Prof. Vrat was Founder-Director, IIT Roorkee; Vice-Chancellor, U.P. Technical University, Lucknow; Professor, Head, Dean, Dy. Director and Director-in-charge at IIT Delhi; Professor and Division Chairman of Asian Institute of Technology, Bangkok. He is an Honorary Professor at IIT Delhi and Distinguished Adjunct Professor at AIT, Bangkok.

Prof. Prem Vrat was an Honorary Research Fellow at the Department of Engineering Production, University of Birmingham (U.K.) and as an International Visiting Fellow at University of Western Sydney, Australia. He has extensive experience of more than 48 years in teaching, research, management development and consultancy.

He has guided 39 PhD theses, 118 M.Tech and 65 B.Tech major projects on Industrial Application of Systems Approach and Management Science. He has published more than 455 research papers in reputed journals and proceedings of international and national conferences. His research papers have received more than 5000 citations with g-index of 69 and maximum citation of a paper as 820 (as per google scholar). He has authored/co-authored seven books and completed five sponsored projects and 33 consultancy assignments. His book, 'Productivity Management: A System Approach' received awards from DMA as well as ISTD. Springer has published his book, 'Materials Management: An Integrated Systems Approach' under Springer Text Books in Business and Economics and is available both in print and e-book version, worldwide. He is a Fellow of the Indian National Academy of Engineering, National Academy of Sciences, World Academy of Productivity Sciences, ISTE and IIIE. Recipient of multiple awards and recognitions, Professor Vrat was conferred Doctor of Engineering (Honoris Causa) by Bundelkhand University; Distinguished Alumnus Award by IIT Kharagpur; Distinguished Service Award by IIT Delhi; Outstanding Contribution Award for National Development by IIT Delhi Alumni Association; Uttaranchal Ratan Award, Lillian Gilbreth Award; 14 Best Paper medals and prizes. Prof. Prem Vrat was honored with the National Systems Gold Medal by the Systems Society of India (SSI), the highest award conferred by the Society on distinguished scientists and Honorary Member of IIIE, the highest recognition by IIIE. SAE India Foundation bestowed on him the 'Guru' Award for his outstanding contributions. He was conferred the 'Life Time Achievement Award' at the 18th Annual International Conference of the Society of Operations Management at IIT Roorkee in December 2014.

He has been on the Board of Governors of many technical institutions and universities, on the editorial boards of many Indian and foreign journals. He was Chairman (NWRC), AICTE, Programme Implementation Committee (PIC) of National Project on Earthquake Engineering Education (NPEEE); Chairman, Working Group on HRD in IT, Department of IT, Government of India; Member of Adhoc Task Force (ATF), Independent Director on the Board of Air India; Co-Chairperson, RAC-DRDO, Member (MEAC) of National Board of Accreditation; Member, Technology Forum of INAE; Member, Advisory Group of Experts for Technology Upgradation in Indian Railways, Governor Chancellor Executive Council Committee of YMCA University of Science and Technology, Faridabad.

SPEAKER: PROF K L CHOPRA

TOPIC: PLASMA PROCESSING OF THIN FILMS AND NANOMATERIALS

SUMMARY:

Prof. Chopra had delivered an inspiring talk for the faculty members on December08,2016 in Faculty Development Program. His talk on "Thin films" covered various techniques for the growth of thin films and its characterisation. Thin film formation was explained with the emphasis of its applications in computers and electronics engineering. The burning area of research-Plasmonics- was excellently elaborated in a simplified manner to a diversified audience for its applications in various disciplines of engineering.

BRIEF PROFILE:

PROF. K L CHOPRA

SS BHATNAGAR AWARDEE,
FORMER DIRECTOR OF IIT KHARAGPUR AND
HON. DISTINGUISHED RESEARCH PROFESSOR, NCU

A stalwart of the scientific community, Professor Chopra has been recognised as one of the seven 'most highly cited' scientists of India during a period of over two decades till 2005. He has received both a Padma Shree from the Government of India and an Honorary DSc from UP Technical University. The Institute of Scientific Information (ISI) of USA has conferred the Citation Laureate award on him. Among the numerous other awards he has received are the SS Bhatnagar Prize, CSIR; Krishnan Medal, INSA; Bhabha Award, UGC; Mahalanobis Medal, INSA; Aryabhatta Gold Medal, INSA; FICCI Award; Bhasin Award, Bhasin Foundation; Biren Roy Memorial Award; MRSI Distinguished Materials Scientist Award; Indian Vacuum Society Lifetime

Achievement Award; Solar Energy Society Photovoltaic Award; and the Distinguished Educator Award of the Indian Society of Mechanical Engineers. Professor Chopra is a Fellow of all the four science and engineering academies of India, and Honorary Fellow, Punjab Science Academy. Born in West Punjab, now Pakistan, Professor Chopra pursued studies in physics at Delhi University, obtaining BSc (Hons) and MSc degrees, before attending the University of British Columbia, Canada, under a World University Fellowship, to earn a PhD degree. He served in several senior R&D positions for about 14 years: at the Royal Military College, Canada; as Max Planck Fellow at Fritz Haber Institute, W Germany; and as Staff Scientist at Philco-Ford Scientific Lab and Ledgemont Lab, Kenecott Corp., USA. Invited to the position of Senior Professor, Solid State Physics at IIT Delhi in 1971, Professor Chopra also served as the Head, Physics Department, Thin Film and Solid State Technology Cell, and the Centre for Energy Studies.

He was the Dean, PG Studies, for two terms, and Founder Dean of Industrial R&D. He has also been a visiting professor at Cornell and Northeastern Universities, USA. In 1987, he was offered the challenging position of Director, IIT, Kharagpur, which, as a unique case, he served for two terms of ten years, reviving the institute to reach the number one position among IITs. His numerous innovations at IIT, such as the creation of a management school named after its donor, Vinod Gupta, an S&T park with faculty-held enterprises, a technology foundation, the Sanyal School of Telecommunications (with donations from an alumnus), an optical cable-wired campus, a multi-crore corpus fund, an Elibrary, and IIT Extension Centres at Kolkata and Bhubaneshwar, have now been emulated by other IITs.

SPEAKER: PROF PUSHPESH PANT

TOPIC: EXCELLENCE IN TEACHING AND RESEARCH: CHALLENGES AND PROBLEMS IN CONTEMPORARY INDIA

SUMMARY :

The Problem of pursuit of excellence is an eternal one. The Problem arises as it is not easy to define excellence specially when applied to both the realms of teaching and research. In recent years the issue has been complimented by the pressure to ensure social justice and balance excellence with equality. There are other issues no less important. These relate to pursuit of excellence by an individual and by an institution. It can be shown empirically that there are certain individuals who are inspirational and other institutions that cherish the legacy of nurturing talents and providing an atmosphere conducive to excellence. One also has to keep in mind the challenges posed by increasing tendency to work across culturally and in an interdisciplinary manner. A teacher or a researcher has to maintain a delicate balance between personal, professional success without compromising ethical values and contributing towards maintain higher standards of excellence in the institution he or she is serving.

BRIEF PROFILE:

PROF PUSHPESH PANT

PADMA SHRI
PROFESSOR & DEAN- SOL, NCU
FORMERLY PROFESSOR, JNU

Prof Pushpesh Pant is a Professor and Dean at School of Law of The NorthCap University. Prior to this he has teaching experience of 32 years at the Delhi University and the Jawaharlal Nehru University. He has supervised over 25 Ph.D. and 75 M.Phil. degree holders. He has served on the Court of JNU as well as on the Executive and Academic Councils.

Professor Pant is also a Member, Executive Council of Kumaun University, Uttaranchal, and Advisor to the Department of Culture and to the Steering Committee for Technological Missions, Department of Science and Technology, Government of India. He has been Course Director and Joint Course Director for the IFS probationers training programme at the School of International Studies, JNU between 1971 and 1980. He designed and developed the basic course on Indian Foreign Policy for the IFS Institute in the year 2001 and conducted the first programme launching it. He has been a Visiting Professor at the Indian Academy of International Law and Diplomacy, New Delhi and at the Department of Sociology-Electronic Media Centre, University of Lucknow, Lucknow. He was also Member of the Institute of Defense Studies and Analyses (IDSA), New Delhi and Member of the Indian Council of World Affairs (ICWA), New Delhi. He has been a guest lecturer at the National Defense College of India and at the Makahanlal Chaturvedi Patrachar Vishvavidyalaya, Bhopal. He has been advisor to the National Book Trust of India, and Member, Committee on Youth Tourism, Ministry of Tourism, GOI and the AVRC Roorkee University.

Professor Pant has published widely on travel and tourism, with over a dozen books to his credit. He is also a regular contributor on food and travel and has scripted and anchored several food and travel TV Shows. He has worked extensively with the media and has been associated with over a hundred radio and television programmes. His current interests include application of appropriate science and technology for rural development focusing particularly on delivery of education in remote locations ofUttaranchal. He has conceived and launched Jankari-e-dhar programme with the support of Department of Science and Technology in the district of Bageshwar, Uttaranchal. He has also worked on providing opportunities for continuing – formal and well as non-formal education, targeting school dropouts and women. He is, at present, associated with programmes of Janshikshan Sansthan,Birla Institute of Scientific Research at Bhimtal, Uttaranchal. He is also associated with the mobile hospital cum Research Centre in Uttaranchal, a joint programme of the DST GOI and the Government of Uttaranchal.

Professor Pant has contributed research articles in various reputed journals including India Quarterly, International Studiesand IDSA Journal, and newspaper columns and articles on current affairs and themes of community interest in The Times of India,Hindustan Times, Economic Times, The Hindu, The Hindustan Times, The Tribune, Asian Age, Deccan Chronicle and The Pioneer in English and Navabharat Times, Dainik Bhaskar and Hindustan in Hindi. He has been a columnist for Dinman and Ravivar and SaptahikHindustan.

SPEAKER: PROF A K GHATAK

TOPIC: IMPORTANCE OF LIGHT

SUMMARY:

Prof Ghatak shared his expertise on " light" which has fascinated mankind ever since he could see. He showed various diagrams and examples with mention of few celebrated scientists who were pioneers in their fild. Eg Theodore Maimanand fabricated the first LASER in May 1960. Because a laser beam is almost parallel; the lens of the eye will focus them down to a small spot which can cause retinal burns and also can be used for treatment of retinal detachment. If the intensity of a laser beam (entering the eye) is 1 mW/cm2then the intensity at the retina will be about 100 W/cm2.Laser beams are also used for eye surgery.Laser pulses propagating through millions of km of optical fibers connect us across the oceans.

The 2014 Nobel Prize in Physics has been awarded to Akasaki,Amano,Nakamura for the invention of efficient blue LEDs which has enabled bright and energy-saving white light sources. In 1015 Alhazen wrote the first book on Optics, Nobel Prize winner Abdus Salam said: Alhazen was one of the greatest physicists of all time. In 1999, TIME magazine asked for nominations for the "Person of the Century". The three finalists were Franklin Roosevelt: for triumph of freedom over fascism and communism . The other finalist was Mahatma Gandhi: as the embodiment of human rights and his faith in nonviolence Albert Einstein was named TIME magazine's "Person of the Century" Frederic Golden in the December 31, 1999 issue of TIME wrote Einstein was the pre-eminent scientist in a century dominated by science. The touchstones of the era –the Bomb, the Big Bang, quantum physics and electronics –all bear his imprint he was the embodiment of pure intellect …. he was unfathomably profound -the genius among geniuses who discovered, merely by thinking about it, that the universe was not as it seemed. Albert Einstein was born on 14thMarch 1879 in the city of Ulm . Einstein's school leaving certificate (when he was about 18 years old shows that he scored the highest grade in Physics, Algebra, Geometry and History. Einstein had studied in ETH (Eidegenossische Technische Hochschule) in Zurich during 1896-1900 and then later worked here. In the year 1902 Einstein eventually got a job at the Swiss Patent Office. In the year 1905 Einstein published five outstanding papers. These 5 papers are often referred to as The AnnusMirabilis Papers; Annusmirabilis are Latin words meaning "Miracle Year". It took a while for Einstein's light quantum to be established. This led to wave-particle duality which eventually led to the development of quantum theory. Brownian motion of a big particle that collides with many smaller molecules of a gas which move with different velocities in different random directions that light always propagates in free space with a definite velocity that is independent of the state of motion of the emitting body. The equation $E=mc^2$ was given by Einstein. Equivalence of mass and energy and that mass can be converted to energy and vice versa. It is particularly remarkable that a single physicist -Albert Einstein –had such extra-ordinary deep perceptions of the workings of Nature that he laid foundation stones for both of these twentieth century revolutions in the single year of 1905. Isaac Newton's Annus Mirabilis was the year 1666 (when he was only 23 years old). In 18 incredible months, Newton wrote down his famous laws of

motion, explained the laws of gravity, discovered calculus, and developed a theory of optics. He concluded the session with few guideline son etiquette of writing presentation, mentioning the source etc and giving due credit to the owner of the information.

The session also consisted of various examples of Prof Ghatak's life which inspired the faculty to become effective teachers and he also encouraged them to become great teacher so that the students take pride in being taught by them.

BRIEF PROFILE:

PROF. A K GHATAK

SS BHATNAGAR AWARDEE
RETD PROF., IIT DELHI

Prof. A K Ghatak Honorary Distinguished Research Professor, Former Professor, Physics Department, Indian Institute of Technology, Delhi. SS Bhatnagar Awardee Professor Ghatak is arguably the father of modern research and education programmes in Photonics and Optics. A Professor of physics at IIT Delhi from January 1974 to June 2002, and Emeritus Professor of Physics at the same institution from July 2002 to November 2006, Professor Ghatak is a PhD in Engineering Physics from Cornell University, USA. He has written over 170 research papers and more than 20 books.

Professor Ghatak has written over 170 research papers and more His undergraduate text on Optics has been translated into Chinese and Persian, and his monograph on Inhomogeneous Optical Waveguides (co-authored with Professor Sodha) has been translated into Chinese and Russian. In 1995, he was elected Fellow of the Optical Society of America 'for distinguished service to optics education and for his contribution to the understanding of propagation characteristics of gradient index media, fibres and integrated optical devices'. Professor Ghatak

now spends his time writing books and doing special guest lectures at Universities in India and Internationally.

He has been awarded for his notable work in Physics awards. The selected ones are given below:

- SPIE Educator Award (2008) "in recognition of outstanding contributions to optics education"
- Esther Hoffman Beller Medal (2003) of the Optical Society of America "for outstanding contributions to optical science and engineering education"
- Galileo Galilei Award (1998) of the International Commission for Optics "for outstanding contributions to the field of optics which are achieved under comparatively unfavorable circumstances"
- S. S. Bhatnagar Prize for Science and Technology – Physical Sciences (1979) of the Council of Scientific and Industrial Research "for significant work in the field of inhomogeneous optical wave-guides, theory of aberrations for optical systems comprising inhomogeneous media and self-focussing of laser beams"

SPEAKER: PROF SWARAN AHUJA

TOPIC: REVIEW AND IMPLEMENTATION OF TEACHING LEARNING PROCESES AT NCU-NEW GUIDELINES

SUMMARY:

Prof. Swaran Ahuja delivered a lecture on "Improvements in Teaching Learning Process and Guidelines for implementation". Among several issues, the main points considered included:

1. Reduction in the contact hours of students to appx.5 Hrs/day from current 6+ hours/ day to allow the students more time for self study
2. Teach only 2-3 subjects on a day against current 4-5 subjects to allow the students to better concentrate on these subjects
3. Increase the lecture time to 90 minutes from current 60 minutes to enable faculty teaching the subject to deliver the content more effectively
4. Reduction in credits from 170-175 to 150-160 range for B Tech. For MBA and other courses to be worked out to bring it in line with current trend at top Universities like IITs , IIIT etc.

He also proposed the approach to be followed to incorporate the above mentioned points in curriculum. Most of the points pertain to credit reduction, contact hour reduction , class scheduling and also major improvement in content & delivery methods . These are all interrelated and require curriculum review. Therefore , propose a comprehensive review of curriculum to align it with the current and futuristic market requirements along with improvements in content , delivery etc. as per available suggestions. He suggested aligning the curriculum and content with the Strategic Plan prepared recently.

Prof. Ahuja suggested all schools/ Depts. to upgrade their program curriculums and delivery methods keeping the above guidelines in the view.

BRIEF PROFILE:

DR SWARAN AHUJA

SENIOR PROFESSOR, HEAD OF EECE DEPARTMENT

& DEAN ACADEMICS , NCU

Dr Swaran Ahuja received his BTech (Electrical Engg.), MTech (Electronics & Comm. Engg.). & PhD (Digital Signal Processing – 1980) degrees, all from Indian Institute of Technology, Delhi. Since then he has worked in various industrie's including Avionics, Telecom and IT. His main areas of specialization has been Wireless Communications and while working in industry he has handled several R&D Projects related to Telecom and IT.
A number of products and systems developed by him have been commercialized. A few examples are, Radio Telephone Systems, Synthesized Land Mobile Radios, Radio Direction Finding Systems, Mobile Communication Systems, Wireless based Data Acquisition & Processing Systems, Point-to-Point Microwave Systems, VSAT Systems & High Speed Radio Modems etc. He has also designed several large Telecom & IT projects with nationwide installations. His current areas of interests are Wireless LANs, Software Defined Radios and Digital Signal Processing. He has published a number of papers in international journals and participated in and organized several technology conferences. Currently he is heading the Electrical and Electronics Communication Engineering Department. He is also the Dean Academics and looks after academic and development related activities of the University.

Area of Expertise: Wireless Communication, Digital Signal Processing

SPEAKER: PROF R OJHA

TOPIC: TOWARDS BETTER EMPLOYABILITY - AN INITIATIVE THROUGH COCUBES

SUMMARY:

Prof Ojha delivered a session ” Towards Better Employability : an Initiative “. In current scenarios, there is a need to bridge the gap between industry needs and students through a formal assessment process. The University has taken an initiative to create an awareness to facilitate the students in their employment readiness drive . This is done by collaborating with CoCubes - India's leading assessment and hiring platform. They run assessments to measure employability across all domains - from programming to plumbing. CoCubes works with 600+ corporate clients to execute entry level and lateral assessments and has access to more than a million candidates through its platform. They run 2 million+ assessments each year in 350+ cities; thus, everyday helping our corporate clients reduce interview bandwidth using our central assessment platform, helping institutional clients measure and improve employability and helping candidates move ahead on their career path.

The goal is to take a series of assessment tests to improve the success ratio to industry written exams, measuring individual student employability and gap analysis for improvement, review of the curriculum and the teaching-learning process for to make them industry ready.Main features of the test include: student-centric deliverables – assessment scores, improvement areas, employment leads for placement successes; other deliverables – periodic percentile ranking, Specific action oriented recommendations for academic improvements, gap analysis of student groups with specific remedial actions, continuous practice for students, every year, across the programs compulsory for all students, department specific tests.

BRIEF PROFILE:

PROF RAVINDRA OJHA

DIRECTOR - SCHOOL OF ENGINEERING AND TECHNOLOGY &

HOD -MECHANICAL ENGG , NCU

Prof Ojha joined NCU on 01 June 2013 as the Director of School of Engineering and Technology. Professor Ravindra Ojha brings to The NorthCap University, a very vast industrial experience of 30 years in the Auto sector.He is BTech- Mechanical from REC Warangal and Mechanical Engineering in Industrial Engineering and Management from A I T Bangkok. He is a Gold medalist from R E C Warangal.

Prof Ojha joined Telco (currently, Tata Motors) as a Graduate trainee, worked in different plants of Eicher and went up the corporate ladder to become the Managing Director of G K N Driveline, India which has four plants in India. GKN is a 250 years old company from UK and are the market leaders in India and the world for driveline products. He has been responsible in creating three new plants in GKN over a period of six years and infused some of the world's best quality practices, systems and processes. He was declared the best MD of the Asia Pacific region in 2008.

His areas of interest are Lean system in organizations, Cellular manufacturing systems, Value flow and manufacturing excellence and has seven publications in these areas.

SPEAKER: MAJ. GEN. A K CHATURVEDI

TOPIC: ENERGY SECURITY OF INDIA

SUMMARY:

Maj Gen A K Chaturvedi gave a session on Energy Security Of India**.** To begin with , the basics were explained like the concept of Energy, relevance of Energy, and energy security. The definition of energy is "Total capacity to do work" which is not adequate resulting in the revised definition "Energy is a property of matter that can be converted into work, heat, radiation or any other usable form". Other basic principles were detailed like: Role of Sun, Law of Conservation of Energy and Energy Mass Transformation. The definition of Energy Security was shared i.e. " A nation's capacity to ensure sustained availability of energy in perpetuity at affordable cost to support personal requirements of its citizens, industrial growth and other economic activities by optimally utilizing indigenous resources and the resources ex import." It entails uninterrupted supply, readiness for disruption, enhancing energy basket and continuous attempt to enlarge resource base. The above can be achieved by : diversifying energy sources, R&D to enhance efficiency and effectiveness of equipment and systems respectively ,developing new clean energy sources, exploit geo-politics situation/ economy to achieve interdependence ,reducing demand by energy conservation, creating capacity to exploit technological breakthrough, creating storage capacity, improving infrastructure, security of overseas assets.

Challenges faced by India's Energy Security were discussed. India is 18% of World Population but uses only 6% of World's Primary energy. The main reasons are: widening demand supply gap, resource Divergence- TQQ syndrome, inadequacy of one source to meet the demand, energy intensity quite high due to import content. India is the Third Largest Consumer of Energy after USA and China. The policy objective of India is to provide energy access to all with priority to Rural Electrification Plan. Also, the focus is to improve Energy Security by reducing import dependence and developing technologies to exploit indigenous sources. The last objective is mitigation of climate change. India is a signatory to UN Framework convention on Climate Change (UNFCC); presently India's per capita emission is only 1/3rd of the World's Average of 14%. Measures to Bridge the Demand Supply Gap were highlighted which include: conservation, exploitation of local resources ,reducing import, buying energy bearing equity abroad, blending, creating strategic reserve, R&D, transmission Lines, nuclear energy.

The likely future scenario in 2040 has the following highlights: Enhancement of number of Vehicles from existing Numbers,840 million will still be using inefficient biomass based cooking system,315 million people will be living in cities-will be major driver for energy demand-integrated planning of water, sewage disposal, transportation and waste management will be required: smart cities will have to be gone for, new electrical connections -600 million, to keep pace with the demand 900 GW more would be needed- 50 % accretion will be through RE (essentially solar and wind systems, environmental issues will force the enhanced use of RE – solar and wind systems- 340 GW by RE systems, although grid increase will be 5% / year but building codes may call for off grid usage and energy Basket.

The session concluded with the following recommendations : New Initiatives of the government like; 'Make in India' and 'Digital India' will need additional energy for which an additional investment of US $ 28 trillion would be needed, new policy initiatives for conservation/ international cooperation will have to be thought off, need for an integrated approach to energy management through department of energy, enactment of energy security and responsibility act, attention at highest level through overseeing at PMO level, need for perspective planning for a span not less than 25 years through capability at NITI Aayog, optimal utilization of all available indigenous resources through strengthening R&D capability and safety security of all natural and acquired resources through dedicated security setup. The session concluded with Q/A round by faculty.

BRIEF PROFILE:

MAJ . GEN. AJAY KUMAR CHATURVEDI,

AVSM, VSM

A recipient of Two Presidential awards; namely Ati Visishth Sewa Medal and Visishth Sewa Medal for his outstanding services at different stages of career, Maj Gen AK Chaturvedi was commissioned in The Bengal Sappers of the Corps of Engineers of the Indian Army in December 1974. While serving in the Army he finished his B Tech in Mechanical Engineering from the College of Military Engineering Pune, M Tech in Mechanical engineering from the Indian Institute of Technology Chennai, Master of Management Studies from the Osmania University, Post Graduate Diploma in Defence management from the Devi Ahilya University Indore and M Phil from the Madras University in National Security & Strategic Studies. He has also done a diploma in Interviewing Techniques from the Defence Institute of Psychological Research New Delhi and an Advanced Diploma in Rowing Coaching from the Thor Nielson Institute Italy. Currently he is pursuing his PhD from Manipal University Jaipur in 'Energy Security of India: Perspective 2030'.

Among the important appointments which he tenanted during the Army Career were; Command of an Engineer Regiment in an active insurgency affected area, Commandant of a Training Centre dedicated to skill development; The Bengal engineer Group and Centre Roorkee, Deputy Director General in the Additional Directorate of the Financial Planning at

Ministry of Defence (Army), Assistant Chief of the Integrated Defence staff in Defence Intelligence Agency, Chief of Staff of a Tri Service Command, Chief Engineer of the Northern Command of the Indian Army and the Additional Director General of Personnel at the Army HQ (Engineer-in-Chief).

Post retirement he has dedicated himself to work for the improvement in the domain of education. He is a prolific writer on strategic issues. Some of his major works include books namely; 'Water a Source of Future Conflicts', 'Role of Pakistan in India's Energy Security' and 'Nuclear Energy in India's Energy Security Matrix- An Appraisal'. In addition, he has edited a book on 'Disaster Management'. His Chapters on 'Relevance of Small Hydro', 'Indo- Pak Energy Relations- A Way Ahead', 'Indian Ocean in India's Security Matrix', 'Indian Ocean- Need for a new Paradigm' and many others in various books are highly cited. His latest under publication work is 'Geopolitics of Energy". He has also been a part of two major feasibility studies in recent times; namely; 'Threats to India's National Security' by a Delhi based Think Tank; the United Services Institute and 'Sustainable Development of Andaman & Nicobar Islands' by the Government of the A&N Islands. He is active in 'Lecture Circuit'. His areas of interests are; Non Traditional Threats to National Security particularly water and energy security, Disaster Management, Indian Ocean and value Based Leadership.

Presently he is the Director General of College of Engineering Roorkee, Distinguished Faculty at Chitkara University Chandigarh and Shoolini University Solan. He is actively involved with the research work with the Department of Defence Studies at Deen Dayal Upadhyaya University Gorakhpur. He is also the Honorary Director of the UP Chapter of a Think Tank called 'Eco Development Foundation' and member of a number of Delhi based think tanks namely; United Services Institute, Centre for Joint Warfare and Institute of Defence Studies and Analyses. Another of his interest is spread of education and as such he is associated with a number of schools based in rural areas of Uttar Pradesh and Uttarakhand. Two of his current projects are establishment of a Think Tank named 'STRIVE' based at Lucknow which will be dedicated to address issues related to social conflicts & strategic affairs and the second is; establishment of a State University in Uttarakhand which would be dedicated to Science and Beyond.

He also had been an outstanding Sportsman; who had been a winner of the Rowing National Championship in both; 'Open' and 'Veterans' category. He remained part of National team from 1982 to 1984. During this period among other regattas he represented India in the World Championship in 1983, where his crew created a new National Record. Post his active rowing days he became a coach. Under his tutelage India won her First Gold Medal in Asian Championship 1989. He has now graduated to the Organization and had been the Co-Chairmen of two of National Junior Championships in recent past. He is also a trained Scuba diver and an acclaimed mountaineer.

SPEAKER: MR SACHIN JAIN

TOPIC: ETHOS OF MANAGEMENT

SUMMARY:

In his talk, Prof Sachin Jain introduced the various Techniques of Project Management. He feels that there is no rocket science for this; one simply needs to follow the Indian Ethos or Philosophy. Prof. Jain suggested the following simple human traits or commandments. These traits are time tested that makes oneself first a better human being & the rest follows automatically:

- Forget & Forgive vs Anger
- Simplicity & Flexibility
- Passion & Compassion
- Attachment & Detachment
- Contemplation & Control
- Truthful & Honesty
- Information & Knowledge vs Wisdom
- Development & Environment
- Pursuance, Patience, Perseverance & Positivity

He gave a detailed account of all the above characteristics with relevant practical examples, adages, excerpts from his personal life. His approach was appreciated by the audience and they all connected well to his topic. There was a Q/A round at the end where all participated with the speaker.

BRIEF PROFILE:

MR SACHIN JAIN
INDEPENDENT CONSULTANT
FORMERLY AT ONGC, GAIL, IGL, SAMSUNG

Sachin Jain is a graduate in Mechanical Engineering from G.B.Pant University, Pantnagar and MBA from I.I.T. Delhi. He has been the professional member of ASME, USA & Institution of Engineers, India.

He has about 40 years of multifaceted experience in Premier Petroleum Industries e.g. ONGC, GAIL & IGL of India; HYUNDAI & SAMSUNG HEAVY INDUSTRIES of South Korea; FLUOR & BECHTEL Corporations of USA; PETROFAC of Saudi Arabia, Gulf Petrochem of UAE; CAIRN Energy of UK and WORLEY PARSONS of Australia.

He specialises in execution of Large & Mega Oil & Gas Projects from Concept to Commissioning within stipulated TIME & COST.

Currently he is a Free lance Consultant. A firm believer in Human Values, he enjoys exploring various cultures, history, people & places. He is widely travelled across the world as well as India."

SPEAKER: PROF KARMESHU

TOPIC : MATHEMATICAL MODELING AND ITS PERVASIVENESS ACROSS DISCIPLINES

SUMMARY:

He started his talk with the importance of mathematical modelling in various disciplines. He talked about the modelling of natural and social systems which generally follow the log-normal distribution. Then he explained the importance of power-law distribution for mathematical modelling of various systems such as citation of scientific papers, web site hits, telephone calls, population of cities etc. To give more inside of using power law distribution, he explained an example of modelling of financial markets specifically the modelling of NASDAQ-100 index and showed their recently published results. Speaker also mentioned the dynamic processes and their modelling and showed examples of various non-linear systems. The methods for solving non-linear systems were explained for eg. Non-linear stochastic differential equations, oscillatory behaviour equations, Brownian motion and diffusion equations. For modelling growth dynamics of various species in the environment, the speaker explained the Lotka – Volterra system of equations. The speaker showed the role of Markov chain process in packet switching for evaluation of computer network performance and showed the results of one of the results published in 1987. For modelling the political conflict processes, speaker showed the different components of such type of systems and their relationships in mathematical terms and related results were explained. Speaker showed the stochastic modelling its applications in real environment. Different types of mathematical equations used to model such systems were explained in detail. Then he compared the two ways to solve the stochastic differential equations in view of modelling environmental stochasticity.

Speaker also focused the mathematical modelling of any kind of diffusion like new idea, news, new products or any new issue discussed on social platforms. A generalised model to explain this diffusion was given by Bartholomew in 1976. The mathematical model to express the dynamics of such spread was thoroughly explained. He also showed some models given by different researchers and speaker showed his published work in this area. Then he showed an example of diffusion model of software piracy. He compared two models given by two researchers Commer and Rumelt. The results were showed to demonstrate the diffusion of software piracy and how it gives and impact on software companies. At the last, speaker explained the different mathematical modelling approaches used to model stochastic systems. Noise play an important role to model real environment processes. Speaker explained the effect of noise in the system dynamics and it can be modelled. In a concluding remark, the speaker said that the mathematical modelling is applicable to all area of research whether it is engineering, science or social science. The mathematical models can be designed to view all aspects of the system in numeric form.

BRIEF PROFILE:

PROF. KARMESHU
PROFESSOR,SCHOOL OF COMPUTER AND SYSTEMS SCIENCES,
JAWAHARLAL NEHRU UNIVERSITY, DELHI, INDIA

Dr. Karmeshu is Professor in School of Computer and Systems Sciences in the Jawaharlal Nehru University since 1986 and is currently Dean of the School of Computer and Systems Sciences, Dean of School of Computational and Integrative Sciences And also President of Indian Society of Mathematical Modelling and Simulation. For his outstanding contributions to mathematical modeling he was awarded Dr. C.M. Jacob Gold Medal of Systems Society of India in 1990 and the most prestigious Shanti Swarup Bhatnagar award for the year 1993.

Prior to joining JNU, he was a visiting scientist at University of Stuttgart Germany, visiting Assistant Professor, University of Waterloo, Canada, and visiting Professor National University of Mexico, Mexico. He is a founding Professor at NIIT University Neemrana, Rajasthan and Distinguished research Professor ITM University, Gurgaon. Dr. Karmeshu has published around 100 research papers in international journals. His work has been extensively cited in journals and books. Several books have devoted exclusive sections discussing his mathematical models and techniques as applied to the study of a variety of systems. Prof. Karmeshu has extensively given research seminars in Universities in Europe, Canada, USA and China. He has also delivered several memorial and endowment lectures including Platinum Jubilee lecture in section of Information & Communication Science, in Indian Science Congress 2009. He worked as a Member of the Editorial Boards of journals including Stochastic Hydrology and Hydraulics by Springer International. Prof. Karmeshu was the elected President of Mathematics Section of 85th session of Indian Science Congress Association. He has been a member of the senate of IIT (Delhi) and IIT (Roorkee) and has been Chairman of the Governing Body of Bhaskaracharya College of Applied Sciences, University of Delhi. Prof. Karmeshu has served on several committees of CSIR, DST, UGC, ICAR. He is a member of Central Connectivity and Monitoring Committee, UGC Infonet Connectivity Programme, FIST program of DST and member of Curriculum Development Committees including Central University of Orissa, Koraput, Central University of Bihar, Patna, and Central University of Himachal Pradesh, Dharmshala. Prof. Karmeshu has extensively contributed to the area of stochastic modeling and simulation of Innovation-Diffusion, Computational Neuroscience and Performance Modelling of Communication Networks. Prof. Karmeshu is a standing committee member of National Mission of Education through ICT

SPEAKER: DR VINNIE JAUHARI

TOPIC: TECHNOLOGY LEADING TO ENGAGED EXPERIENCES IN LEARNING

SUMMARY:
Dr. Vinnie Jauhari's lecture gave an insight into the latest technologies coming our way including big data, cloud computing and cyber security. The need and relevance of these areas in teaching, research and industry was discussed in detail. She also gave an insight into how these technologies have overshadowed everything and is really the need of the hour. Her lecture gave a direction to the faculty members for effective and outcome based teaching. A brief summary is given below:

Technology is playing an increasing role in everything we – and our customers – do, shaping growth, disrupting industry landscapes and providing the catalyst for transformation. In terms of impact, Digital Transformation can be considered the next industrial revolution, providing the catalyst for new business models, products, services and experiences that impact not only businesses but society overall. Digital business transformation to date has largely focused on operational efficiency. The potential is much greater. Gartner defines digital business "the creation of new business designs by blurring the digital and physical worlds." Digital business leaders are now thinking about how they will reinvent their vision based on technology. And when companies fully embrace technology as a way to transform their business, they outperform their peers in every industry. On average, Digital Masters generate 9% more revenue, have market values 12% higher, and are 26% more profitable than their industry competitors.

It's therefore not a big surprise that technology is the #1 priority for CEOs. In a recent survey, 86% believed technology would transform their business more than any other global trend in the next 5 years. Large Scale Technology Trends have a significant impact on campus. Students are early adopters, Research maybe more so.

Microsoft is the only major cloud provider to offer a holistic platform that can communicate with thousands of devices, store and analyze the data, predict future incidents, display data, and issue commands back to devices (Azure IoT Suite, Cortana Analytics Suite).Microsoft understands the need for academia to better manage costs when transitioning from traditional licensing to a consumption-based model, and we are always looking for ways to make the transition to the cloud easier for the community. Successfully managing student lifecycles – from student prospect to enrolment to alumni – is a key to great learning outcomes. Today's students are evolving quickly and institutions must learn to adapt to the new student journey.

Microsoft will empower students and educators to create and share in entirely new ways, to teach and learn through exploration, to adapt to individual learning needs, so they can make, design, invent and build with technology that stays out of the way. We are committed to partnering with educators on their journey to redefine learning. Core to our mission is creating immersive and inclusive learning experiences that inspire lifelong learning. For

students, these experiences stimulate the development of essential life skills like communication, collaboration, critical thinking, and creativity. And as our economies and societies become more and more digital, computational thinking becomes of paramount importance. We are empowering educators to create environments in and out of the classroom that guide and nurture student passions, and enable students to achieve beyond their greatest imaginations – making, designing, inventing, building the future. Students are at the core of every institution of learning.

First, Microsoft is committed to helping educators and students create and share in entirely new ways. We're working with those who share our passion – educators, students, school administrators, global leaders, industry partners – to provide the resources and experiences students need to create, build, collaborate, research and analyze. Together, we can build the literacy and problem solving skills they need to succeed today and tomorrow.

Whether it is access to the world's most popular productivity suite online, or apps like OneNote and Sway that are helping to reimagine productivity in the classroom, or an all new browser that lets you actively research, read and take notes, Microsoft enables students and educators to organize and manage content in mobile, individual, and collaborative workspaces and share stories through modern interactive reports and presentations that are designed for the digital world. All available anytime, anywhere, on any device. We believe all young people should have access to a computer science and coding education so they can learn this foundational subject matter, and develop critical computational-thinking, problem-solving and employability skills. With global programs like YouthSpark and coding tools like Kodu, TouchDevelop and Visual Studio that grow with them, young people globally will benefit from understanding how technology works as well as how to create, apply and use it.

BRIEF PROFILE:

DR VINNIE JAUHARI

DIRECTOR, EDUCATION ADVOCACY AT

MICROSOFT CORPORATION INDIA LTD

Vinnie Jauhari works as Director, Education Advocacy at Microsoft Corporation India Ltd. She is responsible for evangelizing Education initiatives at Microsoft. She leads and manages strategic engagements in Higher Education and K-12 and also works on policy issues related with education. She works on programs leading to capacity development for teachers through initiatives in pedagogical innovation. These are both in public and private sector domain. She has initiated programs that involve confluence of content, technology and pedagogy. Some of these workshops are in the domain of Vision and Leadership and creative curriculum development. She won Greg Butler Award for the year 2014-15 at Microsoft Corporation for her work in education domain in India.

She has worked as a Director and Professor of Strategy at IIMT(now Vedatya Institute), Gurgaon. She developed strategic linkages for the institute with some leading international universities as well as partnered with industry to create employability for students. She was responsible for academic leadership and research strategy. In her role, she initiated and managed several international conferences, as well as fostered strong linkages with schools and other higher education institutions.

Vinnie was earlier Region Lead for HP Labs Open Innovation Office for India. She has received numerous awards for her work at HP Labs as well as her academic achievements. She won Director's award for Innovation in the world wide team in 2008-2009. She is also a recipient of HP Empower grant for women during her tenure at HP Labs. She has over 19 years of experience which pans across industry and academic assignments.

She has authored twelve books published from New York , Toronto, and Springer, Germany in the domain of services, innovation and technology management. Some of titles of her books are:
Innovation Management (2014) published by Oxford University Press; Services Management (2009)(Oxford University Press) Technology Innovation Across Nations(Springer Germany); Women Entrepreneurship(2009). Managing Sustainability in the Hospitality and Tourism Industry (Apple Press, New Jersey, 2014).

Having authored over 100 papers in international and national journals of repute, she is the Founding Editor of Journal of Services Research and Journal of Technology Management for Growing Economies. She has been a guest editor of numerous international journals and some of her papers have won awards and global recognition. Her areas of interest span across strategy, technology, entrepreneurship and sustainability across service sectors.

Vinnie received her Ph.D. in the domain of corporate entrepreneurship from IIT Delhi. She received Post Doctoral Fellowship at United Nations University, Tokyo in the area of sustainable technologies.

SPEAKER: DR PRAMATH RAJ SINHA

TOPIC: INCORPORATING 21ST CENTURY LEARNING INTO THE CLASSROOMS

SUMMARY:

Dr Pramath delivered an insightful session on incorporating 21st century learning in classrooms. He began with his own background covering his school, teachers and how he got into IIT Kanpur. There was a detailed account of his course choices in IIT and the motivation by his teachers who inspired him to take up masters in robotics. We also learnt about his various business ventures and public relation skills. Moving on, we discussed three main aspects of learning skills in present scenario i.e. Inter-disciplinary learning approach, communication skills and Team work. He emphasized these three points with relevant examples. Addressing the faculty, he explained how the students entering our University are the few privileged sections of society who have got this exposure and as teachers it is their obligation to equip them with multiple perspective, inter-linkages, and complex problems. In real life scenarios, they will never work in isolation. The problem will be myriad in nature demanding them to be wholesome in their approach. It was also pointed out that communication skills is one of the most important skill to be acquired by our students as it is the first interface one has with anyone. In fact, he suggested it should be called a hard skill instead of soft skill owing to its importance. This comprises of verbal communication, articulation, ability to express thoughts, clear thinking, proper email writing etc. Third skill is the ability to work well with others or as we say team building. Strong interpersonal skills are must for any new age employee. He shared his own experiences where his most of the time is spent in getting people together to work on projects, emphasizing the importance of team work One needs to be self-aware in order to be sensitive to others. Such skills can be taught through organizational behaviour, case studies, working in teams on real time projects etc. Theoretical knowledge cannot suffice, only practice can inculcate these skills. The session was concluded with question/answer round where faculty participated with their queries on how they can implement these techniques in their classroom teaching.

BRIEF PROFILE

DR PRAMATH RAJ SINHA

GOVERNING BODY MEMBER, NCU
FOUNDER, VEDICA SCHOLARS PROGRAMME FOR WOMEN
FOUNDER & MANAGING DIRECTOR, 9.9 MEDIAWORX PVT LTD
FOUNDER & TRUSTEE, ASHOKA UNIVERSITY
FOUNDING DEAN, ISB

Dr. Pramath Raj Sinha, is a Governing Body member of The NorthCap University. Dr SInha , is a Co-Founder and Managing Director of Nine Dot Nine Mediaworx Pvt.Ltd. (a/k/a 9.9 Mediaworx Pvt. Ltd.). He Founded 9.9 Mediaworx in 2007. He serves as a Member of Executive Board and Member of Governing Board of Indian School of Business. Dr. Sinha served as a Senior Advisor of India of Albright Stonebridge Group. Dr. Sinha serves as a Senior Advisor of McKinsey. He served as the Chief Executive Officer, President and Managing Director of Ananda Publishers Pvt. Ltd. Prior to joining ABP, he was a Partner at McKinsey & Company, working with its North American and Indian practices. In his 13 years at McKinsey, Dr. Sinha assisted both Public and Private sector clients in a diverse set of industries on issues relating to business strategy and performance improvement in North America and Asia. He led McKinsey India's telecom, information technology, and media practices as well as its organisation practice, where he focused on issues of transformation and leadership. Dr. Sinha has been associated with the project right from its inception and continues to be actively involved in the School as a Member of its Executive Board. He serves as Chairman at Elephant Capital LLP. He serves as a Director of Nine Dot Nine Mediaworx Pvt.Ltd. (a/k/a 9.9 Mediaworx Pvt. Ltd.). He serves as a Member of several corporate and non-profit Boards of Directors and Advisors. Dr. Sinha serves as a Director of Welham Girls' School Society and International Foundation for Research & Education. He serves as Member of Board of Advisors of Rabo Equity Advisors Private Limited. He serves as a Director of Kaleidoscope Entertainment Pvt., Ltd., DLF-Pramerica Life Insurance Company Ltd., BILT, Ananda Publishers Pvt. Ltd., Nine Dot Nine Interactive Pvt Ltd., Nine Dot Nine Digital Pvt Ltd., Vienova Technology Pvt Ltd., ABP Pvt Ltd., ABP Entertainment Pvt Ltd., Mindworks Global Media Service Pvt Ltd. and V-Soft, Inc. Dr. Sinha serves as a Member of the Advisory Board at Alternative Investments Africa Private Limited. He is on the Board of the McKinsey Knowledge Centre. He serves as Chairman of Vienova Technology Pvt Ltd. He served as an Independent Director of BILT Paper PLC until October 31, 2011 and Ballarpur Industries Limited from April 30, 2008 to October 31, 2011. He served as the Chairman of Elephant Capital Plc from December 2009 to November 7, 2011. He served as an Additional Director of Ballapur Industries Ltd. from April 30, 2008 to November 1, 2011. He served as a Director of Elephant Capital Plc. from December 3, 2009 to March 2012. Dr. Sinha received M.S.E. and Ph.D. degrees in Mechanical Engineering and Applied Mechanics from the University of Pennsylvania and a B.Tech. in metallurgical engineering from the Indian Institute of Technology, Kanpur.

SPEAKER: MR AVIJIT DAS

TOPIC: ENTREPRENEURSHIP AND STARTUPS – SOME EXPERIENTIAL FACTS

SUMMARY:

Mr. Avijit Das delivered talk on topic "startup and Entrepreneurship". The talk was inimitable and highlighted truths and myths associated with startups. He shared typical traits of entrepreneurial persona that can take a budding entrepreneur to remarkable heights.

He shared detailed insight on startup culture where he explained any budding entrepreneur has to:

•Be ready to modify the idea, shift and share ownership as you become wiser.
•Be prepared to collect a group around you who could challenge you.
•Be ready to work like a " donkey "
•Be ready to fail a few times), pick yourself up and recover quickly.
•Be ready to give up all forms of ego
•Be ready to be insulted / humiliated and be willing to brush it off.
•Be ready for real emotional lows and huge stress periods.
•Being unprepared for any of these could be fatal

Often people only about the success stories – for every one we hear, they don't hear the nine that has died – it is not a walk in the park. He debunked various myths attached to startups like:

•It is not glamour or high life – it is lots of hard work, stress, emotional turmoil and struggle.
•It is not about making big money quickly – it is about sacrifices, financial struggle, giving up benefits and perks and risking what you have.
•It is not about money it is about creation and making a difference.

In nutshell, plethora of information shared by him indicating that startups are not about making big money quickly, name , fame, glamour but it is all about untiring efforts, hard work with getting immune to failures, humiliations and keeping ones ego trifling. He also shared few videos which demonstrated his idea very aptly. The talk concluded by him sharing that startups survive with a unique idea that can value add a wow moment for the user with ease of reaching to them. His talk was very informative, inspiring, aligning & nurturing to those who are willing to contribute to Make in India initiative.

BRIEF PROFILE:

MR AVIJIT DAS
MANAGING DIRECTOR & CEO EVEREADY (PTY) LTD . SOUTH AFRICA,
FOUNDER CHAIRMAN & CEO OF EVEREADY DIVERSIFIED PRODUCTS (PTY) LTD . SOUTH AFRICA
FOUNDER CHAIRMAN , PREMAS BIOTECH LIMITED, INDIA

Avijit is an entrepreneur with several business start ups and turnarounds to his credit . He has been a leader in "management of change" thinking and application . He has a Mechanical Engineering Honours Degree from Jadavpur University India . He started his career with Tata Motors in India and then spend several years at Eicher India . He then worked as a management of change consultant with a associate company of AT Kearney consulting various companies on " Change Management " and "Business Process Reengineering " . He joined Duracell / Gillette USA in 1994 to grow into one of their key top Global executives managing their international operations as Group Director International covering Africa , Middle East and Asia . In 2003 he became an entrepreneur when he along with few of his colleagues lead a management buy out of Eveready Pty Ltd in South Africa . He is currently the Managing Director and CEO of Eveready Pty Ltd .

He diversified Eveready Pty Ltd significantly with added range of products in consumer batteries and lighting . He also acquired a new business in household products under the brand " House of York ". Eveready currently has a distribution footprint across all channels in Southern Africa covering South Africa , Namibia , Botswana , Zambia , Zimbabwe , Mozambique etc . It has more than 60% volume share in all the category it operates . He founded a new company in the name of Eveready Diversified Products Ltd focusing on renewable energy . Eveready Diversified is now a complete renewable solution provider and manufacturer of micro wind turbines under the brand name of Kestrel ,which has been designed and produced in South Africa and is one of the two manufacturers (in their product size) in the globe to be certified by the UK and USA certifying agencies . Avijit is currently the Chairman and Managing Director of Eveready Diversified.

He is also the founder Chairman of Premas Biotech in India , which is involved in contract research and manufacturing space in biotechnology as well as sales and application support for top end genomics equipment in India . He has three decades of leadership, management, business experience across the regions covering Africa , Middle East and Asia . He has been a "management of change" thought leader with a strong vision for the future sustainability and social impact . He is a charismatic person with a vision and ability to inspire and energise

people around him across international regions and multicultural environments . He has been a guest speaker in various management institutions, universities and professional conferences speaking on topics covering leadership , change management , sustainability and international business environment .

He was also the Deputy President of the Local Business Chamber of Commerce in Port Elizabeth.

SPEAKER: MR KRISHNAN RAMAN

TOPIC: LEADING IN THE KNOWLEDGE WORKER ERA

SUMMARY:

Krishnan conducted an interactive session on the topic" ". It began with understanding few definitions like knowledge, information , application of knowledge i.e. wisdom and leadership. It was discussed that how leaders are born not made. Also, in today's time we should inspire and not just motivate. Inspiration is an internal process enabling growth of an individual which is always inside out. We need to leverage their knowledge and enable them to release their potential rather than controlling them. Various eras were discussed starting from Hunter and Gatherer's era where people had a short term viewpoint. The three sets: mind, tool and skill were discussed. Moving on we talked about Industrial era where machines became more powerful and people became liabilities. Then came Management theories and it was concluded how people are to be led and not managed. We discussed various terms like Responsibility (Response + Ability),Belief, Value , Paradigm, Perception, Principles. The distinction between Principle and Paradigm was explained with real life examples. We should ensure values and paradigms are aligned to principles (natural laws). The role of engaged people and loyal customers was explored. These parameters can make any organization successful. Winning culture and making distinctive contribution is the key to driving successful projects. The role of Spirit (conscience), Mind (vision), Heart (passion) and Body (discipline) was discussed. The behaviours which inspire trust were explained with examples.. It made everyone think on few simple, rather than instructing them. He also discussed about aligning everyone to Mission (Purpose) , vision and values and ensuring the strategy is prepared to achieve the above mission. The session concluded with Q/A round where faculty participated and appreciated the manner in which the session was conducted.

BRIEF PROFILE:

MR KRISHNAN RAMAN
PRINCIPAL CONSULTANT &
MASTER TRAINER, FRANKLINCOVEY

With more than 15 years of rich training experience, Krishnan has trained people at all levels in the hierarchy of various Indian and multinational organizations. He believes in delivering high passion, in-depth knowledge & gives complete commitment to all his training & consulting assignments. Krishnan has more than 25 years of business experience to draw from and is a Certified Master Trainer with FranklinCovey, specializing in all the topics such as Leadership, Trust, Execution, Management, Communication Skills and Productivity to name a few. Krishnan is rated as one of the top trainers in India and South Asia.

More than 100 organizations of varying sizes have benefited from Krishnan's expertise, including Microsoft, Genpact, Hewitt, IBM, HCL, Cognizant, Wipro, Airtel, JPMorgan Chase, Agilent Technologies, Power Grid Corp. Ltd., Tata Teleservices, Sun Microsystems, Cisco, Satyam, Deutsche Bank, Jindal Steels, British High Commission, TATA AIG, Maruti, Mercedes, BMW, Le Meridien, Taj Hotels, ITC, Cairn India, Wipro, UNDP, WHO, Reckitt Benckiser, Alstom, Oracle, PwC, Bank of Tokyo, Fujitsu Consulting, Citibank, IL&FS, Samsung to name a few.
Krishnan is a post graduate in Information Technology and is a FranklinCovey Master Trainer in Leadership, Productivity, Execution, Personal and Interpersonal Effectiveness curriculums. Krishnan is also a Senior Certified Trainer on Situational Leadership by Center for Leadership Studies. He is also certified by Microsoft Academy of Excellence as a trainer.

During his international exposure he has developed and implemented systems for the University of Western Ontario (Canada), Dashwood (USA) and Canadian Auto Dealers. During his career as a technologist, he served as a Technology Consultant & Service Provider to the Embassy of the United States of America, Canadian High Commission and various other national and multinational clients.

Through his training and coaching, he has inspired many individuals and teams to achieve extraordinary results in their lives.

His personal mission is to enable the highest potential in every individual he serves.

PICTURE GALLERY

NCU

3. If you are using Power Point, do not have too many equations on a particular slide and make them appear one by one so that they can write them down

Points for Consideration
13 All textbook resources to be updated & outdated textbooks / teaching to be weeded out and latest State of Art books introduced.
To align with current industry and technology trends.

Poor Efficiency
National Power
NCU

NCU
THE NORTHCAP UNIVERSITY

EVEREADY
A little Background to connect to the stories
The first taste of blood .....start up and not a start up
EVEREADY
kestrel
ecocell
HOUSE OF YORK
NCU

Leading in the
Knowledge Worker Era
NCU
NCU

THANK YOU

LIST OF PRESENT/ABSENT (FACULTY DEVELOPMENT PROGRAM)

S. No	DEPT.	NAME	08.12 (SLOT 1)	08.12 (SLOT 2)	09.12 (SLOT 1)	09.12 (SLOT 2)	10.12 (SLOT 1)	10.12 (SLOT 2)	12.12 (SLOT 1)	12.12 (SLOT 2)	13.12 (SLOT 1)	13.12 (SLOT 2)	14.12 (SLOT 1)	14.12 (SLOT 2)
1	CSE & IT	Ms. Jyotsna Singh	P	P	P	A	P	P	P	A	On Goa Trip			
2	CSE & IT	Ms. Suman Bhatia	P	P	A	DUTY	Sick Leave	P	P	P	P	P	P	P
3	CSE & IT	Dr. Latika Singh	P	P	P	P	P	P	P	P	P	A	P	A
4	CSE & IT	Ms. Meghna Sharma	P	P	P	P	P	P	P	P	P	P	P	P
5	CSE & IT	Ms. Jagdeep Kaur	P	P	P	P	P	P	P	P	P	P	P	P
6	CSE & IT	Mr. Sandeep Singh	P	P	P	P	P	P	P	P	P	P	P	P
7	CSE & IT	Dr. Prachi Ahlawat	P	P	P	P	A	P	P	P	P	P	P	A
8	CSE & IT	Dr. Shilpa Mahajan	P	P	P	A	P	P	P	P	P	P	P	P
9	CSE & IT	Dr. Yogita Gigras	P	P	P	P	P	P	P	P	P	P	P	P
10	CSE & IT	Dr. Supriya Raheja	P	P	P	A	P	P	P	P	P	P	P	P
11	CSE & IT	Ms. Sumanlata Gautam	P	P	P	P	P		P	A	P	P	P	P
12	CSE & IT	Ms. Anuradha Dhull	P	P	P	A	P	P	P	P	P	A	P	P
13	CSE & IT	Mr. Anil Kumar Mishra	SERVING NOTICE PERIOD									P	A	
14	CSE & IT	Ms. Geetika Munjal	ON SICK LEAVE		A	A	P	P	P	P	P	P	P	P
15	CSE & IT	Ms. Rita Chhikara (P/T)	P	A	A	A	P	P	P	P	P	P	P	A
16	CSE & IT	Ms. Neeti Kashyap	CISCO TRAINING		A	A	CISCO Training				CCNA TRAINING			
17	CSE & IT	Ms. Hitesh Yadav	P	DUTY	P	P	p	P	P	P	P	P	P	P
18	CSE & IT	Ms. Neha Sahu	PHD EXAM		P	P	p	P	P	P	P	P	A	P
19	CSE & IT	Ms. Richa Chhabra Sidana	PHD EXAM		P	P	A	A	P	P	P	P	P	P

S. No	DEPT.	NAME	08.12 (SLOT 1)	08.12 (SLOT 2)	09.12 (SLOT 1)	09.12 (SLOT 2)	10.12 (SLOT 1)	10.12 (SLOT 2)	12.12 (SLOT 1)	12.12 (SLOT 2)	13.12 (SLOT 1)	13.12 (SLOT 2)	14.12 (SLOT 1)	14.12 (SLOT 2)
20	CSE & IT	Ms. Jyotika Pruthi	DUTY	P	P	P	P	P	P	P	P	P	P	P
21	CSE & IT	Dr. Akansha Singh	A	DUTY	A	A	A	P	P	P	P	P	P	P
22	CSE & IT	Ms. Poonam Sharma	PHD EXAM		P	A	P	P	P	P	P	P	P	P
23	CSE & IT	Dr. A. Charan Kumari	P	P	P	P	P	P	P	P	P	P	P	P
24	CSE & IT	Ms. Mehak Khurana	DUTY	P	P	P	P	P	P	P	P	P	P	P
25	CSE & IT	Dr. Vijendra Singh	P	P	P	P	A	P	P	P	P	P	A	P
26	CSE & IT	Ms. Garima Sharma	DUTY	P	P	P	P	P	P	P	P	P	A	A
27	CSE & IT	Ms. Prerna Singal	A	A	P	P	A	A	P	P	P	P	P	P
28	CSE & IT	Dr. Kavita Khanna	P	P	P	DUTY	P	P	P	A	P	P	P	A
29	CSE & IT	Ms. Jyoti Sahni	DUTY	A	P	P	P	P	P	P	P	P	P	A

FACULTY DEVELOPMENT PROGRAM

ON

HOLISTIC DEVELOPMENT OF FACULTY MEMBERS

JUNE 5th to 10th, 2017

SCHOOL OF MANAGEMENT

	SCHOOL OF MANAGEMENT
	Duration of FDP – 05th to 10th June 2017
	HOLISTIC DEVELOPMENT OF FACULTY MEMBERS
1.	LaTeX - Dr. R. Narasimhan & Dr. Mansi Khurana
2.	Effective Teaching - Mr. Satish Kaushik
3.	Training for PhD guides - Prof. Prem Vrat
4.	Mentoring - Dr. Sushmita Waraich & Dr. R. Narasimhan
5.	Learning Technologies - Dr. R. Narasimhan
6.	Case Development - Dr. R. Narasimhan
7.	Office 365 - Mr. Deepak Satyarthi

OBJECTIVES

The 6 day FDP starting from 5th June 2017 with the aim of holistic development of faculty members was organized with the following objectives:

1. To provide hands on training to faculty members on advanced document development tool LaTeX for scientific writing
2. To equip faculty with tool for effective teaching
3. To train PhD supervisors on how to guide research scholar
4. To sensitize faculty about the mentoring process
5. To develop case writing skills

OUTCOMES

After attending the 6 day FDP, following outcomes were attained:

1. Faculty learnt usage of LaTeX for document preparation and document management
2. Faculty may use direct learning method and student profiling techniques for better engagement with students and effective learning inside and outside the classroom.
3. Faculty got trained on how to guide PhD scholars
4. Understood the basics of mentoring
5. Learnt how to write case using the scientific method

DAY WISE SCHEDULE

DAY 1 : 5th June 2017
VENUE: N401

S No	Session Details	Timings
	SESSION-I	
1	LaTeX	9.30 AM to 12.30 Noon
	SESSION-II	
2	LaTeX	2.00 PM to 5.00 PM

DAY 2 : 6th June 2017
VENUE: N401

S No	Session Details	Timings
	SESSION-I	
1	LaTeX	9.30 AM to 12.30 Noon
	SESSION-II	
2	LaTeX	2.00 PM to 5.00 PM

DAY 3: 7th June 2017
VENUE: N401

S No	Session Details	Timings
	SESSION-I	
1	Effective Teaching	9.30 AM to 12.30 Noon
	SESSION-II	
2	Effective Teaching	2.00 PM to 5.00 PM

DAY 4: 8th June 2017
VENUE: N401

S No	Session Details	Timings
	SESSION-I	
1	Training for PhD guides Mentoring	9.30 AM to 12.30 Noon
	SESSION-II	
2	Brainstorming session on "Effective pedagogy for Mathematics courses" - External Expert Prof R K Sharma	2.00 PM to 5.00 PM

DAY 5: 9th June 2017
VENUE: N401

S No	Session Details	Timings
	SESSION-I	
1	Learning Technologies	9.30 AM to 12.30 Noon
	SESSION-II	
2	Case Development	2.00 PM to 5.00 PM

DAY 6: 10th June
VENUE: N401

S No	Session Details	Timings
	SESSION-I	
1	Session by Mr Deepak Sathyarthi on Office 365	9.30 AM to 12.30 Noon
	SESSION-II	
2	Case Development	2.00 PM to 5.00 PM

Day 1 and 2

The first two days of FDP organized by SOM, starting from 5th June 2017, comprised of sessions on "**LaTeX**" delivered by Dean School of management Dr. R. Narasimhan and Dr. Mansi Khurana. ***LaTeX*** is a document preparation system used for the communication and publication of scientific documents. Dr. Narasimhan started the session by discussing the advantages of using LaTeX over other document reparation system like Microsoft Office. Further, he informed about MIKTEX which serves as the engine and Editors like WinEdit and its various versions which shall be installed for preparing documents in LaTeX. In succeeding session Dr. Mansi, gave hands on practice to participants for creating documents in TeXstudio and Dr. Narasimhan provided training in using WinEdit for performing tasks like drawing figure, referencing, etc. .

DAY 3

On the **third day**, Mr. Satish Kaushik, an expert in counseling psychology, talked about profiling of students by teachers as a preliminary step towards effective learning amongst students. He sensitized faculty to be sensitive towards the problems faced by students. He also discussed the various techniques of appreciation for motivating students.

Day 4

On the **fourth day**, Prof. Prem Vrat,in his session, provided insights to PhD supervisors on "Successful Approaches for PhD Research Completion". Speaking on the role of supervisor, he said that mindset of supervisor should be to nurture and supervisors should know their intrinsic strengths in terms of the type of research they can guide. Further he suggested that a research should focus on finding new ways of interpreting existing facts, finding new facts, extending existing body of knowledge to a new area or application of existing technologies to new phenomenon. He stressed upon the importance of comprehensive understanding and awareness of latest developments as a critical element of quality research. He also clarified that the role of supervisor is to guide, inspire and encourage the scholar and not to do the work for the scholar. Further, he also discussed the problems faced by PhD researchers and coping strategies to enhance performance. He also highlighted the importance of following ethical practices for creating a nurturing research environment. The session was attended by faculty from SOM and CLL.

Following this,Dr. Sushmita Waraich conducted a session on "Mentoring Relationships" emphasizing the relevance of mentoring, explaining the differences between mentoring and coaching, counseling, training etc. She explained the concept of mentoring by taking instances from Bhagwad Gita to the corporates, where it is extensively used and the educational institutions. Dr. Waraich discussed the various types of mentoring techniques and their relevance. She concluded her session by discussing a case study with the participants. In addition to the insights provided by Dr. Sushmita, Dr.Narasimhan conducted a personality assessment test and discussed the role of traits and mentor's responsibilities and "do's and dont's" to be followed by mentors.

Day 5

In the first session on the 5th day, Dr. Narasimhan talked about Direct Learning Method. In the second session, Dr. Narasimhan discussed scientific ways of writing a case study. He listed the steps which shall be followed while writing a case. He suggested that the case writer has to choose a topic of interest and take a stand related to the chosen topic. The next step comprises of listing atleast 20 reasons for taking that stand. Once the reasons have been listed, they need to be arranged in a meaningful order. In the next step, the listed reason has to be classified as either point of view, data information, concept, assumption or argument. Then the reasons have to be checked for clarity, accuracy, relevance, logic, fairness, completeness and depth. Once this scientific process is completed, the case writer presents the case in a story like format by collecting relevant information.

Day 6

On Day 6, the Faculty attended the session on Office 365 followed by one on one discussions with Dr. Narasimhan regarding the completion of their case based on discussions of Day 5 related to case writing.

RESOURCE

INTERNAL EXPERTS

S. No.	Name	Designation	Topic
1	Prof. Prem Vrat	Pro-Chancellor	Successful Approaches for PhD Research Completion
2	Dr. R. Narasimhan	Dean, School of Management	Document preparation using LaTeX, Direct Learning Method, Case Development
3	Dr. Sushmita Waraich	HoD, School of Management	Mentoring Relationships
4	Dr. Mansi Khurana	Faculty	Report Writing using LaTex

EXTERNAL EXPERTS

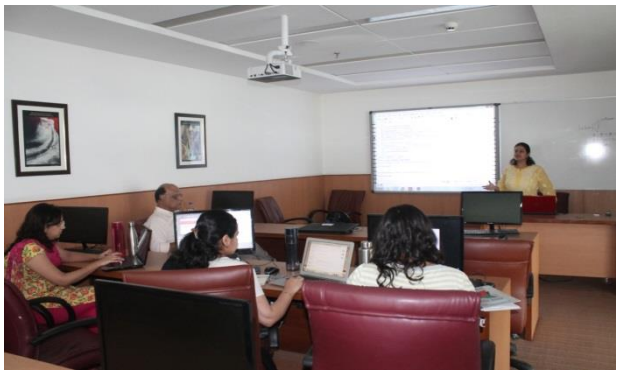
S. No.	Name	Designation	Topic
1	Mr. Satish Kaushik	Trustee Rajbala Foundation	Effective Teaching

SPEAKER PROFILE

Mr. Satish Kaushik

Mr. Satish Kaushik is the Founder Trustee of Rajbala Foundation- a national level NGO working in Health Care (Palliative) & Education. He is also serving as visiting faculty at Institute of Apparel Management, AEPC (Ministry of Textile, Govt. of India). He has set up Psychological Counseling Centres in two educational institutions having more than 4000 students. His last corporate assignment was with A Plus Education Solutions Pvt. Ltd (Purple Leap) (A Pearson Educomp JV Company) as Business Consultant and Business Head (North India). Mr. Satish Kaushik has diversified experience of more than 30 years in multiple sectors and organizations like UTL technologies, Parsons Technologies, Meso America Inc., Chicago, etc. His teaching interests are Business Communication, International Marketing, Business Ethics and Entrepreneurship and Project Management.

PHOTO GALLERY



Session by Dr. Mansi Khurana on Report Writing using LaTeX

Session by Mr. Satish Kaushik on Effective Teaching

Session by Prof. Prem Vrat on Successful Approaches for PhD Research Completion

Session by Dr. Sushmita Waraich on Mentoring Relationships

ATTENDANCE SHEET

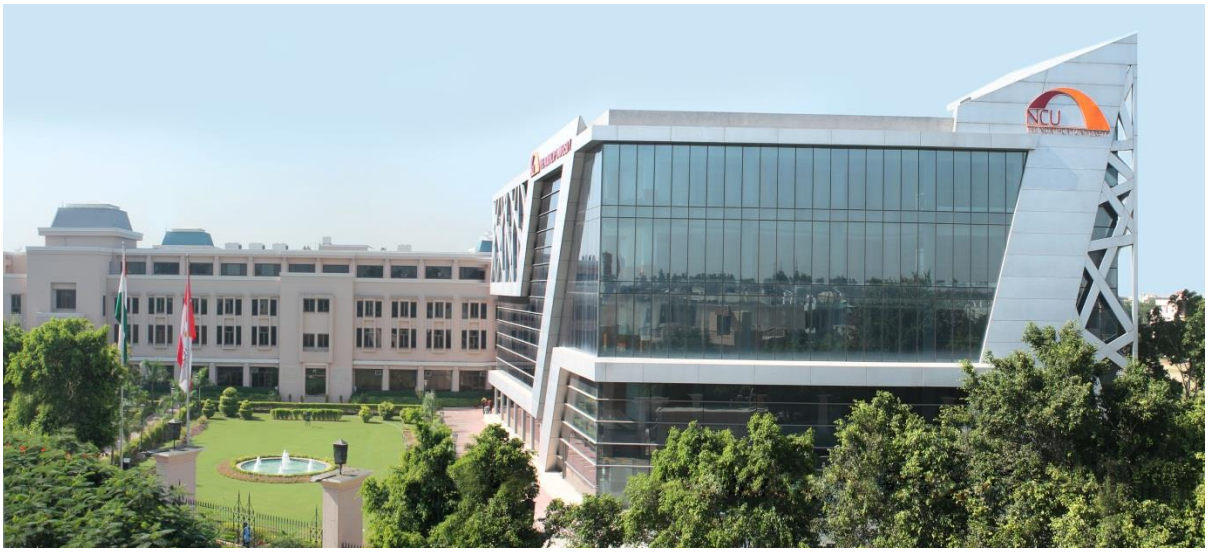
SCHOOL OF MANAGEMENT FDP ATTENDANCE SHEET FROM 5.6.17 TO 10.6.17

Name of Faculty	DATE											
	5.6.17		6.6.17		7.6.17		8.6.17		9.6.17		10.6.17	
	Session 1	Session 2	Session 1	Session 2	Session 1	Session 2	Session 1	Session 2	Session 1	Session 2	Session 1	Session 2
Dr. Alpana Agarwal	P	P	P	P	P	P	P	P	P	P	P	P
Dr. Jaya Ahuja	P	P	P	P	P	P	P	P	P	P	UG/PG Interviews	P
Ms. Jiveta Chaudhary	P	P	P	P	P	P	P	P	P	P	UG/PG Interviews	P
Dr. Mansi Khurana	P	P	P	P	P	P	P	P	P	P	P	P
Dr. Payal Khurana							P					
Dr. Saumya Dixit	P	P	P	P	P	P	P	P	P	P	UG/PG Interviews	P
Dr. Shilpa Sindhu	P	P	P	P	P	P	P	P	P	P		
Dr. Sushmita Waraich	P	P	P	P	A (Civil, CEL FDP)	P	P	P	P	P	UG/PG Interviews	P
Ms. Manu Jain	P	P	P	P								
Ms. Mahina Anand	P	P	P	P								

FACULTY DEVELOPMENT PROGRAM

SUMMER FDP REPORT

(July 2016)



INTRODUCTION

Faculty Development Programmes (FDP) is designed to upgrade and rejuvenate faculty in their respective disciplines delivered by experts through a variety of methods and programs. The main objective is to train and develop faculty members so that they can act as resource persons in their field of work. FDPs aims at equipping teachers with skills and knowledge that are essential for inculcating values in students and guiding and monitoring their progress As per ongoing practice at ITM University, FDP are conducted in the form of a formal, ongoing efforts of organizations to improve the performance and self-fulfilment of their employees discipline through a series of lectures, case study, audio visual trainings, online, interactions, workshops, invited talks by eminent subject experts.

In recent years, training and development has emerged as a formal business function, an integral element of strategy, and a recognized profession with distinct theories and methodologies. To ensure ongoing progress and "continual learning", FDPs are organized to promote employee growth. Such development programs are very vital in any company or organization that aims at progressing. It puts emphasis on broader skills, which are applicable in a wide range of situations and aims to expand the knowledge base of all employees. Both employer and employees as a whole, benefit from these programs. Providing the necessary training creates an overall knowledgeable staff with employees who can take over for one another as needed, work on teams or work independently without constant help and supervision from others. An employee who receives the necessary training is better able to perform her job. She becomes more aware of safety practices and proper procedures for basic tasks. The training may also build the employee's confidence because she has a stronger understanding of the industry and the responsibilities of her job. This confidence may push her to perform even better and think of new ideas that help her excel. Continuous training also keeps your employees on the cutting edge of industry developments. Employees who are competent and on top of changing industry standards help your company hold a position as a leader and strong competitor within the industry.

1. Untrained Employees = Unhappy Employees. Employees who feel inadequate, underachieving, or unsupported are unhappy. They aren't satisfied in their work, which will cause them to underperform, make mistakes, and not care about their work product. That costs the business in lost time and money.

2. Untrained Workers Have a Low Production Value. The quality of their work is lower and of less value. The quality in performance is lower than it could (or should) be.

3. Untrained Workers Are Inefficient. More time (and therefore money) and effort is spent when employees aren't fully or properly trained to perform their tasks or to fulfil their responsibilities. It takes them longer to do the work.

4. Lost Time/Money Due to Mistakes. When an untrained worker makes a mistake, the time and materials used are lost. The work then has to be done again. Or worse, the inadequate product was delivered to the client.

5. An Increase in Miscellaneous Expenses. These are more difficult to track or attribute to untrained workers, but they are there. Creating a CAD drawing incorrectly means reprinting the file. That means it takes more time to fix the mistake, more materials cost in paper and ink, and more time rechecking the work. If it were done correctly the first time, these costs wouldn't be there.

In fact, the quality of employees and the continual improvement of their skills and productivity through training are now widely recognized as vital factors in ensuring the long-term success and profitability of small businesses. "Create a corporate culture that supports continual learning," counselled Charlene Marmer Solomon in *Workforce.* "Employees today must have access to continual training of all types just to keep up…. If you don't actively stride against the momentum of skills deficiency, you lose ground. If your workers stand still, your firm will lose the competency race."

For the most part, the terms "training" and "development" are used together to describe the overall improvement and education of an organization's employees. However, while closely related, there are important differences between the terms that center around the scope of the application. In general, training programs have very specific and quantifiable goals, like operating a particular piece of machinery, understanding a specific process, or performing certain procedures with great precision. On the other hand, developmental programs concentrate on broader skills that are applicable to a wider variety of situations, such as decision making, leadership skills, and goal setting.

APPLIED SCIENCES

&

CENTRE FOR LANGUAGES LEARNING

SUMMARY OF FDP LECTURES HELD DURING JULY 2016

	APS & CLL
	Duration of FDP – 01 to 08 Jul 2016
	ENHANCING RESEARCH AND TEACHING CAPABILITIES
1.	How to Improve Teaching and Learning-Prof C V Baxi
2.	Stress and Health- Prof. A K Yadav
3.	Light with a Twist- Prof Kehar Singh
4.	Image Forensic- Dr. Sangeet Srivastava
5.	How to Improve our Research Productivity- Prof. Prem Vrat
6.	Quality System Requirements of ISO 17025 as Applied to Research Laboratory- Prof. S K Jain
7.	Solar Photovoltaics- Prof. K L Chopra
8.	Atomic Clocks:How do they work and why do we need them- Prof. Amitava Sen Gupta
9.	Understanding and Managing Health and Safety Issues of Nano-materials-Shri J C Kapoor
10.	Problems in Quality Research-Prof. Puhspesh Pant
11.	Make a Difference-Ms. Praneet Kaur

FACULTY DEVELOPMENT PROGRAM
ON
ENHANCING RESEARCH AND TEACHING CAPABILITIES
JULY 2016

INTRODUCTION

Today the teaching profession has become quite challenging. Faculty members at University are expected to be both effective teachers and researchers. Being an educator is not just about sharing knowledge; it is about making sure that learners truly integrate this knowledge and derive learning out of it. Any teaching that does not result in effective learning is useless. Therefore, to be an effective teacher, one needs to be able to deliver the domain knowledge using the most suitable pedagogical tools. An effective teacher is also required to remain at the frontiers of knowledge in his/her areas of subject expertise and gain working knowledge of other domains as management is essentially interdisciplinary. For this, every teacher needs to continuously upgrade himself/herself by engaging in research.

This Faculty Development Programme (FDP) on 'Enhancing research and teaching capabilities' held on 1- 8 July 2016 aimed at honing the teaching and research skills of prospective, new and seasoned teachers and researchers.

The major objectives kept in mind while framing this Faculty Development Programme were as follows:

OBJECTIVES

The participants through this FDP should:

- Understand the significance of alignment amongst the fundamental elements of effective teaching and learning
- Be able to suitably apply the principles of learning in varied learning contexts
- Be able to describe and choose from the signature pedagogies used in the higher education
- Get motivated to use case method of teaching in appropriate learning contexts
- Become aware of preparations required for the successful use of case based approach
- Become aware of elements of a good research proposal
- Get basic understanding of qualitative and quantitative data analysis tools and techniques

- Get motivated to publish in top-notch journals by understanding the expectations of editors of such journals
- To make participants familiar with techniques for different research approaches.
- To understand the application of right tools and techniques while conducting a research.

DAY WISE SCHEDULE FOR FACULTY DEVELOPMENT PROGRAM

Date: 1.7.16 Venue: N-203

S. No.	Time	Event
1.	10:30-10:35 AM	Welcome of all participants and Importance of Faculty Development Programme by Dr Divyabha
2.	10:35-10:40 AM	Introduction to the Speaker
3.	10:40 -12:30PM	Speaker: Prof. C. V. Baxi (Ex-Director MDI) Topic: How to Improve Teaching and Learning
4.	2:00-2:05 PM	Introduction to the Speaker
5.	2:05-4:00 PM	Speaker: Prof A.K. Yadav Topic: Stress and Health

Date: 2.7.16 Venue: N-203

S. No.	Time	Event
1.	10:30-10:35 AM	Introduction to the Speaker
2.	10:35 -12:30PM	Speaker: Prof. Kehar Singh Topic: Light with a Twist
3.	2:00-2:05 PM	Introduction to the Speaker

4.	2:05-4:00 PM	Speaker: Dr. Sangeet Srivastava Topic: Image Forensic

Date: 4.7.16 Venue: N-203

S. No.	Time	Event
1.	9:30-9:35 AM	Introduction to the Speaker
2.	9:35 -10:45PM	Speaker: Prof. Prem Vrat Topic: How to Improve our Research Productivity
3.	2:00-2:05 PM	Introduction to the Speaker
4.	2:05-4:00PM	Speaker: Prof. S. K. Jain Topic: Quality System Requirements of ISO 17025 as Applied to Research Laboratory

Date: 5.7.16 Venue: N-203

S. No.	Time	Event
1.	11:00AM-11:05AM	Introduction to the Speaker
2.	11:00 AM-12:30PM	Speaker: Padamshri Prof. K. L. Chopra Topic: Solar Photovoltaics
3.	2:00-2:05 PM	Introduction to the Speaker
4.	2:05-4:00 PM	Speaker: Prof. Amitava Sen Gupta Topic: Atomic Clocks: How do they work and why do we need them

Date: 7.7.16 Venue: N-203

S. No.	Time	Event
1.	10:30-10:35 AM	Introduction to the Speaker
2.	10:35 -12:30PM	Speaker: Shri J. C. Kapoor (Ex-Director CFEES) Topic: Understanding and Managing Health and Safety Issues of Nano-materials
3.	2:00-2:05 PM	Introduction to the Speaker
4.	2:05-4:00 PM	Speaker: Padma Shri Prof. Pushpesh Pant Topic: Problems in Quality Research

Date: 8.7.16 Venue: N-203

S. No.	Time	Event
1.	10:30-10:35 AM	Introduction to the Speaker
2.	10:35 -12:30PM	Speaker: Ms. Praneet Kaur Topic: Make a Difference
3.	12:30 PM onwards	Valedictory Session

The FDP began with the talk of Eminent speaker Prof. C. V. Baxi (Ex- Director Management Development Institute) on 'How to improve Teaching and Learning' Prof Baxi introduced the topic and explained the important terms in teaching and learning **Knowledge, Comprehension, Application, Analysis, Synthesis and Evaluation**. The six given categories are the cognitive domain levels and the last three categories--synthesis, analysis, and evaluation--are often referred to as the "higher level thinking skills".

Well-formulated instructional objectives can help instructors prepare lecture and assignment schedules and facilitate construction of in-class activities, out-of-class assignments, and tests. Perhaps the greatest benefit comes when the objectives cover all of the content and skills the instructor wishes to teach and they are handed out as study guides prior to examinations. The more explicitly students know what is expected of them, the more likely they will be to meet the expectations.

Prof. A. K. Yadav talked about the basic principles of Naturopathy and its importance in maintaining work life balance. He shared a few techniques that could easily be adopted in our daily life style for a healthy living. He shared his recent personal experience of going through a series of activities based on Yoga and Naturopathy for good health and disease-free life. He highlighted the importance of proper fasting for treating common ailments. Maintaining a regular yoga practice routine can be a great way to reduce stress, stay in shape and calm the mind.

The talk of Prof S. K. Jain aimed to apprise the researchers about the importance of quality in research laboratories and that there is a need to have a quality system in the research laboratories following the international standard ISO/IEC 17025 quality system. A quality system in a research laboratory ensures higher reliability of data & results, global recognition of the data that laboratory produces and enables the laboratory to improve the quality of its own data. The quality system requirements of research laboratories overlap that of calibration and testing laboratories except that research laboratories involve non-routine measurements. The management requirements of a research laboratory therefore match those of ISO/ IEC 17025, just as those of ISO9001. The talk would cover in detail the management and technical requirements of research laboratories including all clauses from ISO 17025. In addition, the requirement to validate the measuring procedures used, which generally are non-standard procedures in a research laboratory, by comparison with other methods, or correlation with other parameters, or inter-comparison with other research laboratories would be emphasized.

Prof. Prem Vrat enlightened the participants on the topic 'Successful Approaches for Ph.D. Research Completion'. He talked about the expected outcomes of Ph.D. Research by Comprehensive understanding of the area of research and awareness of

the latest developments in the area of research through an up-to-date literature review. He focussed on the theoretical modelling/ simulation, Applied research/action research/empirical case oriented research. He highlighted the phases of research projects and problems faced by research scholars. He also elaborated the coping strategies to enhance performance.

Ms. Praneet Kaur conducted session on the last day of FDP on 'Make a Difference' by highlighting the need to harness intrinsic motivation for the individual faculty members in their everyday lives. Since majority of the presentations are focused on teaching, research, and evaluation, this session was designed to pay attention towards personal development, igniting creative energies and to infuse motivation among the participants. The presenter provided a handy distillation of research on motivation and used examples and anecdotes to bring the presentation to life. The motive of the session was to re-kindle the will to accentuate individual strengths and to take advantage of the distinctive talents we all have. It was a highly interactive session that helped the audience learn tangible techniques to implement positive change in their lives. The session was fun, thought provoking and encouraged each person in attendance to -make a difference in their lives.

SPEAKER'S PROFILE

PROF. PREM VRAT

Prof. Prem Vrat was an Honorary Research Fellow at the Department of Engineering Production, University of Birmingham (U.K.) and as an International Visiting Fellow at University of Western Sydney, Australia. He has extensive experience of more than 47 years in teaching, research, management development and consultancy.

He has guided 39 PhD theses, 118 M.Tech and 65 B.Tech major projects on Industrial Application of Systems Approach and Management Science. He has published more than 447 research papers in reputed journals and proceedings of international and national conferences. His research papers have received more than 4500 citations with g-index of 65and maximum citation of a paper as 680. He has authored/co-authored seven books and completed five sponsored projects and 33 consultancy assignments. His book, 'Productivity Management: A System Approach' received awards from DMA as well as ISTD. Springer has published his book, 'Materials Management: An Integrated Systems Approach' under Springer Text Books in Business and Economics and is available both in print and e-book version, worldwide. He is a Fellow of the Indian National Academy of Engineering, National Academy of Sciences, World Academy of Productivity Sciences, ISTE and IIIE. Recipient of multiple awards and recognitions, Professor Vrat was conferred Doctor of Engineering (Honoris Causa) by Bundelkhand University; Distinguished Alumnus Award by IIT Kharagpur; Distinguished Service Award by IIT Delhi; Outstanding Contribution Award for National Development by IIT Delhi Alumni Association; Uttaranchal Ratan Award, Lillian Gilbreth Award; 13 Best Paper medals and prizes. Prof. Prem Vrat was honoured with the ***National Systems Gold Medal*** by the Systems Society of India (SSI), the highest award conferred by the Society on distinguished scientists and Honorary Member of IIIE, the highest recognition by IIIE. SAE India Foundation bestowed on him the ***'Guru' award*** for his outstanding contributions. He was conferred the ***'Life Time Achievement Award'*** at the 18th Annual International Conference of the Society of Operations Management at IIT Roorkee in December 2014.

He has been on the Board of Governors of many technical institutions and universities, on the editorial boards of many Indian and foreign journals. He was Chairman (NWRC), AICTE, Programme Implementation Committee (PIC) of National Project on Earthquake Engineering Education (NPEEE); Chairman, Working Group on HRD in IT, Department of IT, Government of India; Member of Adhoc Task Force (ATF) appointed by the Cabinet Secretariat; Independent Director on the Board of Air India; Member (MEAC) of National Board of Accreditation; Member, Technology Forum of INAE; and Member, Advisory Group of Experts for Technology Upgradation in Indian Railways – Make in India.

SHRI J.C. KAPOOR

SHRI J.C. KAPOOR is Chairman, IDST, Delhi branch. He joined Bhabha Atomic Research Centre in 1971 through BARC Training School, worked there upto 1993 in the area of nuclear safety, aerosol physics, clean-room technology, high-level nuclear waste vitrification etc. In 1993 he joined DRDO and dealt with defence projects in the areas of explosive safety, fire & combustion science, sensor development for explosives and chemical vapour. He was Director of CFEES, Delhi from 2008 to 2010. He was also advisor, strategic projects, DRDO (Hq).

DR. SUSHIL KUMAR JAIN

Dr. Sushil Kumar Jain is M.Sc. (1974) and Ph.D. (1978) in physics from Delhi University. He joined National Physical Laboratory as Scientist B in 1978 and superannuated as Chief Scientist in 2014. He has contributed to R & D in ultrasonic transducers and devices for high power and underwater applications, photovoltaic silicon solar cells, and metrology of force related parameters publishing more than 110 research publications. He is Chief Editor of the J. Pure and Appl. Ultrasonics and is actively associated with NABL in mechanical calibration. He is presently a Professor of Physics at Applied Sciences Department, The NorthCap University, Gurgaon – 122017 for last two years.

PROF. AMITAVA SEN GUPTA

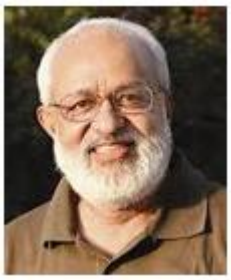
Prior to joining NCU, Prof. Amitava Sen Gupta superannuated from the National Physical Laboratory (NPL), New Delhi in March 2015 as its Acting Director, holding the position of Scientist-H/Outstanding Scientist. He also headed the Time & Frequency Standards Division at NPL. He is an expert in the areas of Radio and Atmospheric Physics; Electronics; Atomic Physics; and Time and Frequency Standards. With over 35 years of research experience, his major contributions include design and development of India's first and one of the world's most accurate primary atomic clocks, known as the 'Cesium Fountain' and the development of the prototype of a space qualified Rubidium Clock for ISRO. He has recently initiated research and development on single trapped Yb ion based optical frequency standards at NPL. He has also developed India's first satellite based standard time broadcasts using the domestic INSAT satellites. Prof Sen Gupta was a member of the first and second Indian Antarctic Expeditions in 1981-82, where he

performed experiments related to upper atmospheric radio propagation and Ozone studies. Subsequently, he was the leader of a 100 member team of the Eighth Indian Antarctic Expedition in 1988-89 setting up the permanent Indian Antarctic station 'Maitri'.

Prof. Sen Gupta is a Fellow of the National Academy of Sciences, India (NASI), Fellow of the Institution of Electronic and Telecom Engineers (IETE), Fellow of the Metrology Society of India (MSI) and a Senior Member of the IEEE, USA. He received the O P Bhasin Award for Science and Technology (2002) for his significant contributions in the field of Electronics and Information Technology. He received NCERT's National Science Talent Search Scholarship for his UG, PG and PhD studies at the University of Delhi. Presently, Prof Sen Gupta is the President of the MSI and is the Editor-in chief of MAPAN - Journal of Metrology Society of India.

PROF. CHOPRA

A migrant from Pakistan, Prof Chopra obtained B.Sc (Hons) and MSc in Physics from Delhi University and PhD from University of British Columbia, Canada under World University Fellowship. He served in various senior R&D positions for 17 years in different institutions in Canada, Germany and USA, besides teaching at Cornell and Northeastern Universities in USA. He returned to India in 1970 to serve IITD in various positions as Senior Prof and Head Physics and Energy Centre, and Dean, PGS and R&D. Challenged by the offer of Directorship of IIT Kharagpur, he served for two terms of 10 years and turned the IIT around to its premier place. After retirement, he served IITD as IREDA Chair Professor in Solar Energy. .Presently , he is an Advisor as also an Honorary Professor of several academic institutions Prof Chopra has supervised 60 PhD students, authored/co-authored /edited 10 books, published over 430 research papers, held 5 US patents, and transferred 10 know-hows to industry. His first book "Thin Film Phenomena" published in1969 is considered as the Bible of the field and a precursor of what is now called as Nanotechnology. Thin Film Lab in IITD, and Microscience Lab in IITKGP founded by him are known globally for pioneering contributions in the S &T of Thin Films and Nanotechnology. A dozen of his PhD students have set up companies and some are also heading major R&D companies globally. Recipient of awards which include S S Bhatnagar Prize, Bhabha Award; Krishnan, Aryabhatta & Mahalanobis Medals, FICCI, Bhasin and Roy Awards, Distinguished Scientist and Life-time Achievements awards of Solar Energy Society, Indian Vacuum Society, Materials Research Society of India nd Indian National Academy of Engineering, Freedom of the Institute Award by IITD, Distinguished Academician Award by IIT Patna, the ISI of USA Citation Laureate award being one of the 8 "most highly cited" Indian scientist, Honorary DSc by IIT Kharagpur, UP Technical University and Chattisgarh Vivekananda Technical University. Elected a Fellow of all Science and Engineering Academies of India, Prof Chopra has been conferred Padamshri by the Government of India for his contributions to science and engineering.



PROF. PUSHPESH PANT

Formerly, Professor of International Relations at JNU, he served in the Executive and Academic Councils of various Universities. He was also the Course Director for the IFS probationers training programme at the School of International Studies. He designed and developed the basic course on Indian Foreign Policy for the IFS Institute. Professor Pant has supervised numerous PhD and MPhil candidates. He was also an Advisor to the Department of Culture and to the Steering Committee for Technological Missions, Department of Science and Technology, Government of India. He has been a Visiting Professor at the Indian Academy of International Law and Diplomacy and at University of Lucknow. He was also Member of the Institute of Defense Studies and Analyses and Member of the Indian Council of World Affairs. He has been advisor to the National Book Trust of India, and Member, Committee on Youth Tourism, Ministry of Tourism, Government of India. He has worked extensively with the media including radio and television programmes. Professor Pant has contributed research articles in prominent journals including India Quarterly, International Studies and IDSA Journal, and newspaper columns and articles in reputed newspapers including, The Times of India, Hindustan Times, Economic Times, The Hindu, The Hindustan Times and The Tribune. Prof Pant has been conferred Padamshri by the Government of India in the year 2015.

DR. SANGEET SRIVASTAVA

Dr. Srivastava is keenly interested in research on Climate Change and Climate Modelling. He has visited several universities abroad for research and academic excellence. The Young Scientist Award was conferred on him by the DST (Government of India), and he has contributed towards many projects on climate change in India. Recently, he co-authored a book, "Climate Change and Disease Dynamics in India", which was presented to the Vice-President of India on 29 May 2012.

Prof. A. K. Yadav

As a professor in Mathematics, Professor Yadav is interested in research in Image Processing, Fluid Mechanics, Air Quality Modeling, and has published a number of research papers in peer-reviewed international journals of repute. He has visited several universities abroad in pursuit of research and academic excellence. In 2009, he received an award from the Indo-US Collaboration of Engineering Education (IUCEE) for his leadership role in enhancing engineering education. Prof. Yadav has been teaching undergraduate and postgraduate students since 1996 besides guiding PhD students. Also, he has held several administrative positions in his career spanning over two decades.

An outstanding academic, Prof. Prem Vrat, is the Pro-Chancellor; Professor of Eminence and Chief Mentor at The NorthCap University, Gurgaon. Just prior to joining NCU as the Vice-Chancellor, in September 2011, he was Professor of Eminence at the Management Development Institute (MDI), Gurgaon. Prof. Vrat was Founder-Director, IIT Roorkee; Vice-Chancellor, U.P. Technical University, Lucknow; Professor, Dean, Dy. Director and Director-in-charge, IIT Delhi; Professor and Division Chairman of Asian Institute of Technology, Bangkok. He is an Honorary Professor at IIT Delhi and Distinguished Adjunct Professor at AIT, Bangkok.

PHOTOGRAPHS

ATTENDANCE SHEET

FDP(Effective Teaching andLearning)

DATE: 1st July 2016 SESSON Morning.

ATTENDANCE SHEET

APPLIED SC and CLL				
S.No	**DEPT.**	**NAME**	**DESIGNATION**	Signature
1	APS	Dr. Kalika Srivastava	Professor	
2	APS	Dr. A K Yadav	Professor	
3	APS	Dr. Sushil Kr. Jain	Professor	
4	APS	Dr. Hukum Singh	Associate Professor	
5	APS	Dr. Rashmi Tyagi	Associate Professor	
6	APS	Dr. Amita Bhagat	Assistant Professor	
7	APS	Dr. Gaurav Gupta	Assistant Professor	
8	APS	Dr. Sunil Hans	Assistant Professor	
9	APS	Dr. Phool Singh	Assistant Professor	
10	APS	Dr. Ambika Sharma	Assistant Professor	
11	APS	Dr. Bharti Arora	Assistant Professor	
12	APS	Dr. Aditya Sharma Ghrera	Assistant Professor	
13	APS	Dr. Sunita Sharma	Assistant Professor	
14	APS	Dr. Dipti Vaya	Assistant Professor	
15	APS	Dr. Sunanda Vashisth	Assistant Professor	
16	APS	Dr. Kamlesh Sharma	Assistant Professor	
17	APS	Dr. Sangeet Srivastava	Assistant Professor	
18	APS	Dr. Pranati Purohit	Assistant Professor	
19	APS	Dr. Tejpal Singh Chundawat	Assistant Professor	
20	APS	Dr. Sanjay Yadav	Assistant Professor	
21	APS	Dr. Ashutosh Pandey	Assistant Professor	
22	APS	Dr. Satwanti Devi	Assistant Professor	
23	APS	Dr. Sandeep Kumar Mogha	Assistant Professor	
24	CLL	Dr. Shrutimita Mehta	Assistant Professor	
25	CLL	Dr. Payal Khurana	Assistant Professor	
26	CLL	Dr. Divyabha	Assistant Professor	
27	CLL	Ms Prerna Chauhan	Assistant Professor	

FDP(Effective Teaching andLearning)

DATE: 1.7.2016 SESSON Evening.

ATTENDANCE SHEET

APPLIED SC and CLL				
S.No	**DEPT.**	**NAME**	**DESIGNATION**	Signature
1	APS	Dr. Kalika Srivastava	Professor	
2	APS	Dr. A K Yadav	Professor	
3	APS	Dr. Sushil Kr. Jain	Professor	
4	APS	Dr. Hukum Singh	Associate Professor	
5	APS	Dr. Rashmi Tyagi	Associate Professor	Rashmi 01.07.14
6	APS	Dr. Amita Bhagat	Assistant Professor	
7	APS	Dr. Gaurav Gupta	Assistant Professor	
8	APS	Dr. Sunil Hans	Assistant Professor	
9	APS	Dr. Phool Singh	Assistant Professor	
10	APS	Dr. Ambika Sharma	Assistant Professor	
11	APS	Dr. Bharti Arora	Assistant Professor	
12	APS	Dr. Aditya Sharma Ghrera	Assistant Professor	
13	APS	Dr. Sunita Sharma	Assistant Professor	
14	APS	Dr. Dipti Vaya	Assistant Professor	
15	APS	Dr. Sunanda Vashisth	Assistant Professor	
16	APS	Dr. Kamlesh Sharma	Assistant Professor	
17	APS	Dr. Sangeet Srivastava	Assistant Professor	
18	APS	Dr. Pranati Purohit	Assistant Professor	
19	APS	Dr. Tejpal Singh Chundawat	Assistant Professor	
20	APS	Dr. Sanjay Yadav	Assistant Professor	
21	APS	Dr. Ashutosh Pandey	Assistant Professor	
22	APS	Dr. Satwanti Devi	Assistant Professor	
23	APS	Dr. Sandeep Kumar Mogha	Assistant Professor	
24	CLL	Dr. Shrutimita Mehta	Assistant Professor	
25	CLL	Dr. Payal Khurana	Assistant Professor	
26	CLL	Dr. Divyabha	Assistant Professor	
27	CLL	Ms Prerna Chauhan	Assistant Professor	

FDP(Effective Teaching andLearning)

DATE: 2.7.2016 SESSON Morning.

ATTENDANCE SHEET

APPLIED SC and CLL				
S.No	**DEPT.**	**NAME**	**DESIGNATION**	Signature
1	APS	Dr. Kalika Srivastava	Professor	
2	APS	Dr. A K Yadav	Professor	
3	APS	Dr. Sushil Kr. Jain	Professor	
4	APS	Dr. Hukum Singh	Associate Professor	
5	APS	Dr. Rashmi Tyagi	Associate Professor	02-07-16
6	APS	Dr. Amita Bhagat	Assistant Professor	
7	APS	Dr. Gaurav Gupta	Assistant Professor	
8	APS	Dr. Sunil Hans	Assistant Professor	
9	APS	Dr. Phool Singh	Assistant Professor	
10	APS	Dr. Ambika Sharma	Assistant Professor	
11	APS	Dr. Bharti Arora	Assistant Professor	
12	APS	Dr. Aditya Sharma Ghrera	Assistant Professor	
13	APS	Dr. Sunita Sharma	Assistant Professor	
14	APS	Dr. Dipti Vaya	Assistant Professor	
15	APS	Dr. Sunanda Vashisth	Assistant Professor	
16	APS	Dr. Kamlesh Sharma	Assistant Professor	
17	APS	Dr. Sangeet Srivastava	Assistant Professor	
18	APS	Dr. Pranati Purohit	Assistant Professor	
19	APS	Dr. Tejpal Singh Chundawat	Assistant Professor	
20	APS	Dr. Sanjay Yadav	Assistant Professor	
21	APS	Dr. Ashutosh Pandey	Assistant Professor	
22	APS	Dr. Satwanti Devi	Assistant Professor	
23	APS	Dr. Sandeep Kumar Mogha	Assistant Professor	
24	APS	Dr. Pramila Goyal	~~Assistant~~ Professor	
25	CLL	Dr. Shrutimita Mehta	Assistant Professor	
26	CLL	Dr. Payal Khurana	Assistant Professor	
27	CLL	Dr. Divyabha	Assistant Professor	
28	CLL	Ms Prerna Chauhan	Assistant Professor	
29	APS	Dr. Srijanani Anurag Prasad	4	

FDP(Effective Teaching andLearning)

DATE: 2/7/16 SESSON 2nd (~~A~~fternoon)

ATTENDANCE SHEET

APPLIED SC and CLL				
S.No	**DEPT.**	**NAME**	**DESIGNATION**	Signature
1	APS	Dr. Kalika Srivastava	Professor	
2	APS	Dr. A K Yadav	Professor	
3	APS	Dr. Sushil Kr. Jain	Professor	
4	APS	Dr. Hukum Singh	Associate Professor	
5	APS	Dr. Rashmi Tyagi	Associate Professor	
6	APS	Dr. Amita Bhagat	Assistant Professor	
7	APS	Dr. Gaurav Gupta	Assistant Professor	
8	APS	Dr. Sunil Hans	Assistant Professor	
9	APS	Dr. Phool Singh	Assistant Professor	
10	APS	Dr. Ambika Sharma	Assistant Professor	
11	APS	Dr. Bharti Arora	Assistant Professor	
12	APS	Dr. Aditya Sharma Ghrera	Assistant Professor	
13	APS	Dr. Sunita Sharma	Assistant Professor	
14	APS	Dr. Dipti Vaya	Assistant Professor	
15	APS	Dr. Sunanda Vashisth	Assistant Professor	
16	APS	Dr. Kamlesh Sharma	Assistant Professor	
17	APS	Dr. Sangeet Srivastava	Assistant Professor	
18	APS	Dr. Pranati Purohit	Assistant Professor	
19	APS	Dr. Tejpal Singh Chundawat	Assistant Professor	
20	APS	Dr. Sanjay Yadav	Assistant Professor	
21	APS	Dr. Ashutosh Pandey	Assistant Professor	
22	APS	Dr. Satwanti Devi	Assistant Professor	
23	APS	Dr. Sandeep Kumar Mogha	Assistant Professor	
24	APS	Dr. Pramila Goyal	~~Assistant~~ Professor	
25	CLL	Dr. Shrutimita Mehta	Assistant Professor	
26	CLL	Dr. Payal Khurana	Assistant Professor	
27	CLL	Dr. Divyabha	Assistant Professor	
28	CLL	Ms Prerna Chauhan	Assistant Professor	
29	APS	Dr Srijanani Anurag Prasad		

FDP(Effective Teaching andLearning)

DATE: 4th July, 2016 SESSON Morning.

ATTENDANCE SHEET

APPLIED SC and CLL				
S.No	**DEPT.**	**NAME**	**DESIGNATION**	Signature
1	APS	Dr. Kalika Srivastava	Professor	
2	APS	Dr. A K Yadav	Professor	
3	APS	Dr. Sushil Kr. Jain	Professor	
4	APS	Dr. Hukum Singh	Associate Professor	
5	APS	Dr. Rashmi Tyagi	Associate Professor	
6	APS	Dr. Amita Bhagat	Assistant Professor	
7	APS	Dr. Gaurav Gupta	Assistant Professor	
8	APS	Dr. Sunil Hans	Assistant Professor	
9	APS	Dr. Phool Singh	Assistant Professor	
10	APS	Dr. Ambika Sharma	Assistant Professor	
11	APS	Dr. Bharti Arora	Assistant Professor	
12	APS	Dr. Aditya Sharma Ghrera	Assistant Professor	
13	APS	Dr. Sunita Sharma	Assistant Professor	
14	APS	Dr. Dipti Vaya	Assistant Professor	
15	APS	Dr. Sunanda Vashisth	Assistant Professor	
16	APS	Dr. Kamlesh Sharma	Assistant Professor	
17	APS	Dr. Sangeet Srivastava	Assistant Professor	
18	APS	Dr. Pranati Purohit	Assistant Professor	
19	APS	Dr. Tejpal Singh Chundawat	Assistant Professor	
20	APS	Dr. Sanjay Yadav	Assistant Professor	
21	APS	Dr. Ashutosh Pandey	Assistant Professor	
22	APS	Dr. Satwanti Devi	Assistant Professor	
23	APS	Dr. Sandeep Kumar Mogha	Assistant Professor	
24	APS	Dr. Pramila Goyal	~~Assistant~~ Professor	
25	CLL	Dr. Shrutimita Mehta	Assistant Professor	
26	CLL	Dr. Payal Khurana	Assistant Professor	
27	CLL	Dr. Divyabha	Assistant Professor	
28	CLL	Ms Prerna Chauhan	Assistant Professor	
29	APS	Dr. Srijanam Arunas Prasad	"	

FDP(Effective Teaching andLearning)

DATE: 4.7.2016. SESSON Afternoon.

ATTENDANCE SHEET

APPLIED SC and CLL				
S.No	**DEPT.**	**NAME**	**DESIGNATION**	Signature
1	APS	Dr. Kalika Srivastava	Professor	
2	APS	Dr. A K Yadav	Professor	
3	APS	Dr. Sushil Kr. Jain	Professor	
4	APS	Dr. Hukum Singh	Associate Professor	
5	APS	Dr. Rashmi Tyagi	Associate Professor	
6	APS	Dr. Amita Bhagat	Assistant Professor	
7	APS	Dr. Gaurav Gupta	Assistant Professor	
8	APS	Dr. Sunil Hans	Assistant Professor	
9	APS	Dr. Phool Singh	Assistant Professor	
10	APS	Dr. Ambika Sharma	Assistant Professor	
11	APS	Dr. Bharti Arora	Assistant Professor	
12	APS	Dr. Aditya Sharma Ghrera	Assistant Professor	
13	APS	Dr. Sunita Sharma	Assistant Professor	
14	APS	Dr. Dipti Vaya	Assistant Professor	
15	APS	Dr. Sunanda Vashisth	Assistant Professor	
16	APS	Dr. Kamlesh Sharma	Assistant Professor	
17	APS	Dr. Sangeet Srivastava	Assistant Professor	
18	APS	Dr. Pranati Purohit	Assistant Professor	
19	APS	Dr. Tejpal Singh Chundawat	Assistant Professor	
20	APS	Dr. Sanjay Yadav	Assistant Professor	
21	APS	Dr. Ashutosh Pandey	Assistant Professor	
22	APS	Dr. Satwanti Devi	Assistant Professor	
23	APS	Dr. Sandeep Kumar Mogha	Assistant Professor	
24	APS	Dr. Pramila Goyal	Assistant Professor	
25	CLL	Dr. Shrutimita Mehta	Assistant Professor	
26	CLL	Dr. Payal Khurana	Assistant Professor	
27	CLL	Dr. Divyabha	Assistant Professor	
28	CLL	Ms Prerna Chauhan	Assistant Professor	
29	APS	Dr. Srijanani Anurag Prasad	"	

5th July 2016. Morning.

1. Dr. Pramati Purohit
2. Rashmi Tyagi
3. Divyaksha
4. Shantimita
5. Dr Payal Khurana Payal
6. Tejpal Singh Chundawat
7. Dipti Vaya
8. Sunil Hans
9. Prerna Chauhan
10. Kamlesh Sharma
11. Satwanti Devi
12. Srijanani Anurag Prasad
13. Dr Bharti Arora Bharti 05/07/16
14. Dr. Aditya Sharma Ghrera Aditya
15. Amita Bhagat
16. Sandeep nagpal
17. Hukum Singh
18. Kalpa
19. Sunanda Vashisth
20. Chetna Tyagi
21. Preeti Yadav.
22. Ambika Sharma.

FDP(Effective Teaching andLearning)

DATE: 5th July 2016 SESSON Afternoon.

ATTENDANCE SHEET

APPLIED SC and CLL				
S.No	DEPT.	NAME	DESIGNATION	Signature
1	APS	Dr. Kalika Srivastava	Professor	
2	APS	Dr. A K Yadav	Professor	
3	APS	Dr. Sushil Kr. Jain	Professor	
4	APS	Dr. Hukum Singh	Associate Professor	
5	APS	Dr. Rashmi Tyagi	Associate Professor	Rashmi
6	APS	Dr. Amita Bhagat	Assistant Professor	
7	APS	Dr. Gaurav Gupta	Assistant Professor	
8	APS	Dr. Sunil Hans	Assistant Professor	
9	APS	Dr. Phool Singh	Assistant Professor	
10	APS	Dr. Ambika Sharma	Assistant Professor	
11	APS	Dr. Bharti Arora	Assistant Professor	
12	APS	Dr. Aditya Sharma Ghrera	Assistant Professor	
13	APS	Dr. Sunita Sharma	Assistant Professor	
14	APS	Dr. Dipti Vaya	Assistant Professor	
15	APS	Dr. Sunanda Vashisth	Assistant Professor	
16	APS	Dr. Kamlesh Sharma	Assistant Professor	
17	APS	Dr. Sangeet Srivastava	Assistant Professor	
18	APS	Dr. Pranati Purohit	Assistant Professor	
19	APS	Dr. Tejpal Singh Chundawat	Assistant Professor	
20	APS	Dr. Sanjay Yadav	Assistant Professor	
21	APS	Dr. Ashutosh Pandey	Assistant Professor	
22	APS	Dr. Satwanti Devi	Assistant Professor	
23	APS	Dr. Sandeep Kumar Mogha	Assistant Professor	
24	APS	Dr. Pramila Goyal	Assistant Professor	
25	CLL	Dr. Shrutimita Mehta	Assistant Professor	
26	CLL	Dr. Payal Khurana	Assistant Professor	Payal
27	CLL	Dr. Divyabha	Assistant Professor	
28	CLL	Ms Prerna Chauhan	Assistant Professor	

FDP(Effective Teaching andLearning)

DATE: 07.07.2016 SESSON Morning

ATTENDANCE SHEET

APPLIED SC and CLL				
S.No	**DEPT.**	**NAME**	**DESIGNATION**	Signature
1	APS	Dr. Kalika Srivastava	Professor	
2	APS	Dr. A K Yadav	Professor	
3	APS	Dr. Sushil Kr. Jain	Professor	
4	APS	Dr. Hukum Singh	Associate Professor	
5	APS	Dr. Rashmi Tyagi	Associate Professor	
6	APS	Dr. Amita Bhagat	Assistant Professor	Amita
7	APS	Dr. Gaurav Gupta	Assistant Professor	
8	APS	Dr. Sunil Hans	Assistant Professor	
9	APS	Dr. Phool Singh	Assistant Professor	
10	APS	Dr. Ambika Sharma	Assistant Professor	
11	APS	Dr. Bharti Arora	Assistant Professor	
12	APS	Dr. Aditya Sharma Ghrera	Assistant Professor	
13	APS	Dr. Sunita Sharma	Assistant Professor	
14	APS	Dr. Dipti Vaya	Assistant Professor	
15	APS	Dr. Sunanda Vashisth	Assistant Professor	
16	APS	Dr. Kamlesh Sharma	Assistant Professor	
17	APS	Dr. Sangeet Srivastava	Assistant Professor	
18	APS	Dr. Pranati Purohit	Assistant Professor	
19	APS	Dr. Tejpal Singh Chundawat	Assistant Professor	
20	APS	Dr. Sanjay Yadav	Assistant Professor	
21	APS	Dr. Ashutosh Pandey	Assistant Professor	
22	APS	Dr. Satwanti Devi	Assistant Professor	
23	APS	Dr. Sandeep Kumar Mogha	Assistant Professor	
24	APS	Dr. Pramila Goyal	~~Assistant~~ Professor	
25	CLL	Dr. Shrutimita Mehta	Assistant Professor	
26	CLL	Dr. Payal Khurana	Assistant Professor	
27	CLL	Dr. Divyabha	Assistant Professor	
28	CLL	Ms Prerna Chauhan	Assistant Professor	
29	APS	Dr. Srijanani Anurag Prasad	"	

FDP(Effective Teaching andLearning)

DATE: 7.7.2016 SESSON Afternoon.

ATTENDANCE SHEET

APPLIED SC and CLL				
S.No	DEPT.	NAME	DESIGNATION	Signature
1	APS	Dr. Kalika Srivastava	Professor	
2	APS	Dr. A K Yadav	Professor	
3	APS	Dr. Sushil Kr. Jain	Professor	
4	APS	Dr. Hukum Singh	Associate Professor	
5	APS	Dr. Rashmi Tyagi	Associate Professor	
6	APS	Dr. Amita Bhagat	Assistant Professor	
7	APS	Dr. Gaurav Gupta	Assistant Professor	
8	APS	Dr. Sunil Hans	Assistant Professor	
9	APS	Dr. Phool Singh	Assistant Professor	
10	APS	Dr. Ambika Sharma	Assistant Professor	
11	APS	Dr. Bharti Arora	Assistant Professor	
12	APS	Dr. Aditya Sharma Ghrera	Assistant Professor	Aditya 07.07.16
13	APS	Dr. Sunita Sharma	Assistant Professor	
14	APS	Dr. Dipti Vaya	Assistant Professor	
15	APS	Dr. Sunanda Vashisth	Assistant Professor	
16	APS	Dr. Kamlesh Sharma	Assistant Professor	
17	APS	Dr. Sangeet Srivastava	Assistant Professor	
18	APS	Dr. Pranati Purohit	Assistant Professor	
19	APS	Dr. Tejpal Singh Chundawat	Assistant Professor	
20	APS	Dr. Sanjay Yadav	Assistant Professor	
21	APS	Dr. Ashutosh Pandey	Assistant Professor	
22	APS	Dr. Satwanti Devi	Assistant Professor	
23	APS	Dr. Sandeep Kumar Mogha	Assistant Professor	
24	APS	Dr. Pramila Goyal	~~Assistant~~ Professor	
25	CLL	Dr. Shrutimita Mehta	Assistant Professor	
26	CLL	Dr. Payal Khurana	Assistant Professor	Payal
27	CLL	Dr. Divyabha	Assistant Professor	
28	CLL	Ms Prerna Chauhan	Assistant Professor	

FDP(Effective Teaching andLearning)

DATE: 8th July, 2016 SESSON Morning.

ATTENDANCE SHEET

APPLIED SC and CLL				
S.No	DEPT.	NAME	DESIGNATION	Signature
1	APS	Dr. Kalika Srivastava	Professor	
2	APS	Dr. A K Yadav	Professor	
3	APS	Dr. Sushil Kr. Jain	Professor	
4	APS	Dr. Hukum Singh	Associate Professor	
5	APS	Dr. Rashmi Tyagi	Associate Professor	
6	APS	Dr. Amita Bhagat	Assistant Professor	
7	APS	Dr. Gaurav Gupta	Assistant Professor	
8	APS	Dr. Sunil Hans	Assistant Professor	
9	APS	Dr. Phool Singh	Assistant Professor	
10	APS	Dr. Ambika Sharma	Assistant Professor	
11	APS	Dr. Bharti Arora	Assistant Professor	
12	APS	Dr. Aditya Sharma Ghrera	Assistant Professor	
13	APS	Dr. Sunita Sharma	Assistant Professor	
14	APS	Dr. Dipti Vaya	Assistant Professor	
15	APS	Dr. Sunanda Vashisth	Assistant Professor	
16	APS	Dr. Kamlesh Sharma	Assistant Professor	
17	APS	Dr. Sangeet Srivastava	Assistant Professor	
18	APS	Dr. Pranati Purohit	Assistant Professor	
19	APS	Dr. Tejpal Singh Chundawat	Assistant Professor	
20	APS	Dr. Sanjay Yadav	Assistant Professor	
21	APS	Dr. Ashutosh Pandey	Assistant Professor	
22	APS	Dr. Satwanti Devi	Assistant Professor	
23	APS	Dr. Sandeep Kumar Mogha	Assistant Professor	
24	APS	Dr. Pramila Goyal	Assistant Professor	
25	CLL	Dr. Shrutimita Mehta	Assistant Professor	
26	CLL	Dr. Payal Khurana	Assistant Professor	
27	CLL	Dr. Divyabha	Assistant Professor	
28	CLL	Ms Prerna Chauhan	Assistant Professor	
29	APS	Srijanani Anurag Prasad	"	

Ministry of Sciences, New Delhi, where the faculty got an opportunity to interact with functional heads of IMD. [CEE2015FO004]

Department of Mechanical Engineering

A week long Faculty Development Programme was organized by department of Mechanical Engineering on the theme of 'Manufacturing Excellence and Industrial Safety'. The FDP was facilitated by Mr R B Madhekar [CEO (RBMSS Consultancy). He talked about the latest trends that are followed in automobile industry to match up with ever increasing customer expectations.

Mr Sudam Maitra, Deputy MD (IFB) covered the topic, 'VAVE The Game Changer'. He shared valuable information regarding the requisites expected in any engineering entrant in auto industry. Dr Amit Tyagi, Scientist 'E' DRDO, led a session on 'Industrial Fire Safety'. He discussed types of fire and best suitable fire extinguishing agents that are to be opted.

Dr SP Nigam, Emeritus Visiting Faculty, NCU led a session on 'Time Management'. He shared how time management skill set helped him throughout his life to perform his best with varied profiles, which he has been handling for the past 50 years. He concluded with the quote "manage your minutes and hours will be managed automatically".

Department of Applied Sciences

Faculty Development Programme on 'Innovation in Teaching and Learning' was organized by Dept of Applied Sciences (APS) and Centre for languages Learning (CLL) from 8-14 December 2016 at NCU. Eminent academicians delivered expert lectures, Prof. Amitava SenGupta on 'Recent Developments in Primary Standard of Mass', Dr Virendra N Mahajan on 'Optical Imaging using Geometrical approach', Prof. Baxi on 'Teaching and Learning Effectiveness' and Prof. Pramila Goyal on 'Air Quality Mathematical Modelling'. The FDP was successfully coordinated by Dr Sunanda Vashisth, Dr Pranati Purohit and Dr Divyabha.

School of Management

Faculty Development Programme was held on 'Research Methodology using SPSS and AMOS' from 13-15 December 2016 to facilitate scholars, academicians, and practitioners for research. The FDP aimed at providing research stimulus to keen learners. The resource person of this programme was Dr Shilpa Jain, Assistant Professor, School of Management Studies, GGSIU, New Delhi.

The FDP commenced with the theoretical explanation of tools viz. 'Correlation Analysis, Regression Analysis' on 13 December 2016, 'Exploratory Factor Analysis' on 14 December 2016 and 'Confirmatory Factor Analysis, Partial Least Square' on 15 December 2016. The FDP concluded with a valedictory session along with award of certificates to the participants.

School of Law

Faculty Development Programme was organized by School of Law from 9-14 December 2016. The programme commenced with a lecture by Prof. Pushpesh Pant on 'Role of Technology in Legal Science. Prof. Pant gave an insightful lecture on how Science and Technology plays a important role in the legal regime. Prof. Elumalai delivered an expert talk on 'Recent Development in Juvenile Justice System'. He highlighted the major changes brought by the Juvenile Justice (Care and Protection of Children) Amendment Bill 2015. Dr Jaswant Singh, Assistant Professor, MDU Rohtak shared his views on 'Mentorship'. His main focus was the problems faced by the teachers in today's scenario while dealing with students. This FDP also included a lecture by Dr Kanu Priya on the topic of 'Outreach Based Research'.

News from the School of Engineering and Technology

Department of CSE and IT

Faculty activity

Ms Neeti Kashyap attended CISCO Instructor training Programme on CCNA Module 3 & 4 at Amity University, Noida from 5-16 December 2016.

NCU
THE NORTHCAP UNIVERSITY
(FORMERLY ITM UNIVERSITY, GURGAON)

Faculty Development Programme on 'Innovation in Teaching and Learning'

Attendance Sheet

(Department of Applied Sciences)

Name of Faculty	Department	Date 08-12-2016	Date 09-12-2016	Date 10-12-2016	Date 11-07-2016
Dr. Kalika Srivastava	APS				
Dr. Hukum Singh	APS				
Dr. Pranati Purohit	APS				
Dr. Phool Singh	APS				
Dr. Ambika Devi	APS				
Dr. Dipti Vaya	APS				
Dr. Sangeet Srivastava	APS				
Dr. Sunita Sharma	APS				
Dr. Bharti Arora	APS				
Dr. Tejpal Singh Chundawat	APS				
Dr. Aditya Sharma Ghrera	APS				
Dr. Amita Bhagat	APS				
Prof. Pramila Goyal	APS				
Dr. Anshu Malhotra	APS				
Dr. Sushil Kr. Jain	APS				
Dr. Sanjay Yadav	APS				
Dr. Ramu Dubey	APS				
Dr. Sunanda Vashisth	APS				
Dr. Rashmi Tyagi	APS	R. Tyagi	R. Tyagi	R. Tyagi	R. Tyagi
Dr. Kamlesh Sharma	APS				
Dr. A K Yadav	APS				
Dr. Srijanani A. Prasad	APS				
Dr. Deepika Rani	APS	Deepika	Deepika	Deepika	Deepika
Dr. Gaurav Gupta	APS				

NCU
THE NORTHCAP UNIVERSITY
(FORMERLY ITM UNIVERSITY, GURGAON)

Faculty Development Programme on 'Innovation in Teaching and Learning'

Attendance Sheet

(Department of Applied Sciences)

Name of Faculty	Department	Date 12-12-2016	Date 13-12-2016	Date 14-12-2016
Dr. Kalika Srivastava	APS			
Dr. Hukum Singh	APS			
Dr. Pranati Purohit	APS			
Dr. Phool Singh	APS			
Dr. Ambika Devi	APS			
Dr. Dipti Vaya	APS			
Dr. Sangeet Srivastava	APS			
Dr. Sunita Sharma	APS			
Dr. Bharti Arora	APS			
Dr. Tejpal Singh Chundawat	APS	Tejpal	Tejpal	Tejpal
Dr. Aditya Sharma Ghrera	APS	Aditya	Aditya	Aditya
Dr. Amita Bhagat	APS			
Prof. Pramila Goyal	APS			
Dr. Anshu Malhotra	APS	Anshu	Anshu	Anshu
Dr. Sushil Kr. Jain	APS			
Dr. Sanjay Yadav	APS			
Dr. Ramu Dubey	APS			
Dr. Sunanda Vashisth	APS			
Dr. Rashmi Tyagi	APS			
Dr. Kamlesh Sharma	APS			
Dr. A K Yadav	APS			
Dr. Srijanani A. Prasad	APS			
Dr. Deepika Rani	APS	Deepika	Deepika	Deepika
Dr. Gaurav Gupta	APS			
Prof. Prabha Sharma	APS			
Prof. Kehar Singh	APS			

Department of Applied Sciences

Workshop

Dr Anshu, Dr Deepika Rani and Dr Phool Singh conducted a workshop on 'Report Writing in LaTex' on 22 March 2017. The workshop was intended for graduate, post-graduate, PhD students and faculty members of all branches who are not familiar with LaTex and need to use LaTex at some point to write their thesis or research papers/reports. The objective of the workshop was to provide a broad overview of the basic concepts, operational algorithms and recent theories related to LaTeX. The workshop was attended by 50 students and faculty of the University.

Dr Sandeep Nagar, G D Goenka University, Gurugram also delivered a lecture in the workshop. The students were given hands on training to prepare their final year dissertations in LaTeX.

The participants realized the advantages of LaTeX, and learnt to prepare documents, technical papers, presentations, project reports and thesis in LaTeX and were exposed to authoring of academic/research papers for professional societies in LaTeX. (APS2017WO001)

Departmental Activities

Visit to Open House-2017 at IIT Delhi

- An educational trip for BTech CSE 1st Year students to the annual Open House-2017 at IIT-Delhi was organized on 22 April 2017. A group of 15 students visited the exhibition and research facilities available at IIT Delhi. Key highlights were earthquake simulators, bipolar charge plasma transistor, robotic research, smart cane, next generation wireless communication, advanced polymeric material and processing, particulate air pollution and effects on heart, design of unmanned underwater vehicles, etc. The aim of the visit was to make students capable of designing and implementing projects for future innovations. The event was taken up under the initiative of Dr Kamlesh Sharma, Assistant Professor, Chemistry section of Department of Applied Sciences. (APS2017V002)
- A parallel trip to the Open House-2017 at IIT Delhi was organized by Dr Rashmi Tyagi, Associate Professor, for BTech ME 3rd Year students on 22 April 2017 for project work in the course on Environmental Studies. Main attractions of the event were showcasing of latest developments in technology and engineering and interaction with students from IITD. The session included a painting and drawing competition on cyber security awareness and an energy quiz competition to test general knowledge and create awareness in the field of energy and environment. There were

sessions on industry interaction and talks on 'After class 12, is engineering my option?' and 'I am doing engineering, now what?' by Professor Subrat Kar, Department of Electrical Engineering, IIT-Delhi. (APS2017V003)

Faculty Activities

- Dr Seema Thakran attended the National Workshop on Mathematical Modelling and Computational Techniques using Mathematica from 30-31 March 2017 at the Zakir Hussain College, University of Delhi. Mathematical modelling is an interdisciplinary subject in which specialists from diverse fields share their knowledge and expertise to improve the existing behaviour of the systems and introduce mathematical modelling and computational techniques with simulation using Mathematica to represent real world problems in various disciplines. This programme also provided a platform to exchange ideas of common interest among the participants. (APS2017WA002)
- Dr Sunita Sharma participated in the National Workshop on Thin Films held at the School of Basic Science and Research at Sharda University, Noida from 17-18 Feb 2017. Lectures by industry experts and researchers covered different aspects of thin film deposition from basics to advanced techniques. The workshop gave hands-on practice on thin film deposition by vacuum coating unit, spin coating, screen printing and electro deposition

techniques. Various aspects of fabrication of different types of solar cells were discussed. (APS2017WA003)

An invited talk was delivered by Dr Sunita Sharma in the National Conference on Functional Materials: State of Art (NCFM-2017) at Sharda University, Noida from 31 March to 1 April 2017. She

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Workshop on Report writing in Latex

Attendance Sheet

(Department of Applied Sciences)

Name of Faculty	Department	Date 22-03-2017
Dr. Seema Thakran	APS	Seema Thakran
Dr. Kalika Srivastava	APS	
Dr. Hukum Singh	APS	
Dr. Pranati Purohit	APS	
Dr. Phool Singh	APS	
Dr. Ambika Devi	APS	
Dr. Dipti Vaya	APS	
Dr. Sangeet Srivastava	APS	
Dr. Sunita Sharma	APS	
Dr. Bharti Arora	APS	
Dr. Tejpal Singh Chundawat	APS	
Dr. Aditya Sharma Ghrera	APS	
Dr. Amita Bhagat	APS	
Prof. Pramila Goyal	APS	
Dr. Anshu Malhotra	APS	
Dr. Sushil Kr. Jain	APS	
Dr. Ramu Dubey	APS	
Dr. Sunanda Vashisth	APS	
Dr. Rashmi Tyagi	APS	
Dr. Kamlesh Sharma	APS	
Dr. A K Yadav	APS	
Dr. Srijanani A. Prasad	APS	
Dr. Gaurav Gupta	APS	
Prof. Prabha Sharma	APS	
Prof. Kehar Singh	APS	

Mr Manoj Paweria, Senior Manager, Taikisha India Ltd, Gurugram delivered a lecture on the topic 'Application of CAD/CAM & CAE in industries'. He spoke about eliminating costly prototyping by evaluating the various robot movements and paint parameters in the digital environment, thus leading to an optimum result. The FDPs were co-ordinated by Dr. Pramod Bhatia, Mr Sanchit Mewar, Mr Praveen Singh. (MED2017FO001)

Project Bamboo Bicycle ranked 3rd at Technovation

Two BTech students Mudit Gupta and Siddharth Jain took up the challenge of using bamboo to make a bicycle as their final year project and guided by Dr Feras Al-Hakkak and Mr Anuj Kumar Jain. The frame of the bicycle was made of bamboo with specially developed steel junctions. The bicycle was tested by riding on bumpy roads for several km in Sector 23. It is comfortable and light. The project was ranked 3rd among 20 projects exhibited at Technovation in May 17 and short listed as one of the four projectss for the best BTech project of the year.

Department of Applied Sciences

Faculty Development Programme

A six day Faculty Development Programme was organized by the Dept of APS from 5-10 June 2017 with a focus on the state-of-the-art tools for learning processes and research. The overall goal of the FDP was the enrichment of the faculty and to learn SCILAB for the lab component of Mathematics-I introduced in the curriculum of BTech. Sessions on latest tools for research such as Mendeley and Science Direct were conducted by experts from eminent institutes.

The FDP started with a brief talk about its layout, activities and sessions planned, by Dr Ambika Devi, Head, Dept of APS followed by the 1st technical session on 'Introduction of SCILAB software tool' by Dr Sangeet Srivastava. He discussed the use of SCILAB, introduced the basics of SCILAB tool and through practicals and hands-on session helped faculty gain understanding of the software. Dr Gaurav Gupta took a hands-on session on SCILAB and showed the practicals that are being introduced in the forthcoming semester.

Dr Harish Narang speaking on Language, Culture & Society

Prof. Harish Narang delivered a lecture on 'Language, Culture and Society' and discussed the need to understand language, culture, society and hence, prioritize for them. Dr Umesh Sharma, Scientist E, Department of Science and Technology, New Delhi spoke about various funding schemes and Dr Subhra Dutta, Elsevier spoke about 'Awareness of SCOPUS and other tools for research management'. Dr Dutta introduced three research tools in her lecture namely, Science Direct, Scopus and Mendeley. These platforms/ software were discussed with a live session using the tools.

Dr Shubhra Dutta, Elsevier, discussing tools for research management

Dr Ambika Devi conducted an interesting session on 'Central Research Facility'. This was followed by a brainstorming session on 'Effective pedagogy for Mathematics courses' by Prof. R K Sharma of IIT Delhi. A talk on 'Simulation for Physics, Chemistry and Mathematics' was delivered by Prof. R K Puri. He spoke on the Monte Carlo simulation required for physical processes through examples of simulation which can be used in almost all fields of science. Dr Phool Singh conducted a session on Latex and the Microsoft team on 'Office 365' and in the last FDP session Dr A K Yadav shared his experience of Classes of 90 minutes duration. [APS2017013]

Centre for Languages Learning

Faculty Development Programme

A Faculty Development Programme on 'Emerging Trends and Challenges in Teaching' was organised by the Centre for Languages Learning (CLL) from 5-10 June 2017. Eminent academicians delivered expert lectures, such as Prof Harish Narang on 'Language, Culture and Society', Ms Kritika Gupta and Ms Vinita Upreti on 'YOGA and effective teaching'.

Internal experts Prof Prem Vrat delivered a lecture on 'Training For PhD Guides', Brig SK Sharma (Retd) on 'Orientation session on effective teaching and curriculum design', Dr Anil Mishra on 'Research Publication and API Scores', Dr Sushmita Wariach on 'Driving individuals towards creative excellence', Dr Kanu Priya on 'Gender Discrimination' and Mr Bilal Ahmed on 'Muslim Laws'. There was Webinar on Preparing Learners for the 21st Century, 3 Key Interpersonal Skills You Need at Work Today.

The aim of the FDP was to motivate and inspire faculty members and enrich the learning process. The experts helped participants understand that the most important way to enhance learning is by strengthening and updating content knowledge and what we teach and how we teach are inextricably linked and dependent on each other. (20172017FO001)

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FDP on focus on the state-of-the-art tools for learning processes and research.(SCILAB)

Attendance Sheet

(Department of Applied Sciences)

Name of Faculty	Department	Date 05-06-2017	Date 06-06-2017	Date 07-06-2017	Date 08-06-2017	Date 09-06-2017	Date 10-06-2017
Dr. Seema Thakran	APS	Seema Thakran	Seema Thakran	Seema Thakran	Seema Thakran	Seema Thakran	Seema Thakran
Dr. Kalika Srivastava	APS						
Dr. Hukum Singh	APS						
Dr. Pranati Purohit	APS						
Dr. Phool Singh	APS						
Dr. Ambika Devi	APS						
Dr. Dipti Vaya	APS						
Dr. Sangeet Srivastava	APS						
Dr. Sunita Sharma	APS						
Dr. Bharti Arora	APS						
Dr. Tejpal Singh Chundawat	APS						
Dr. Aditya Sharma Ghrera	APS						
Dr. Amita Bhagat	APS						
Prof. Pramila Goyal	APS						
Dr. Anshu Malhotra	APS						
Dr. Srijanani A. Prasad	APS						
Dr. Gaurav Gupta	APS						

FACULTY DEVELOPMENT PROGRAM

ON

"I3-INDUSTRY INSTITUTE INTERACTION"

DECEMBER 8th to 14th, 2016

DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

TABLE OF CONTENTS

Sr No	Details	Page No
1	Objectives and outcomes of the Program	**3**
2	Schedule	**4**
2	Day wise program details	**5-7**
3	Resource pool	**8**
4	Photo Gallery	**9-10**

DEPARTMENT OF CIVIL & ENVIRONMENTAL ENGINEERING
SCHOOL OF ENGINEERING AND TECHNOLOGY

FACULTY DEVELOPMENT PROGRAM
ON
"I3-INDUSTRY INSTITUTE INTERACTION"

OBJECTIVES:

The 5 Day Faculty Development Program was conducted in order to increase the industry and institute interaction. The objective of the FDP was to understand the various industry trends and to increase the readiness of the department with respect to industry needs.

OUTCOMES

The Faculty had interactions with eminent people from the industry and helped then gain a part of their experience through interactive sessions. Also it helped the faculty to understand the importance of effective teaching learning processes and how to make the students industry ready. The FDP also included a visit to the Construction Bauma Conexpo Show which was an International trade fair for construction equipments, machinery, building materials, construction vehicles etc.This was an excellent opportunity for the faculty to witness the best of technologies and machinery being used and developed in different parts of the World.

The FDP also included a visit to the India meteorological Department , Ministry of Sciences,New Delhi where the faculty of the Department got an opportunity to interact with all the function heads of IMD , visit each department and understand in detail the working of the forecasting and satellite units. Also they got an opportunity to witness the new technology based equipments recently adopted by IMD to improve their systems

DAY WISE SCHEDULE FOR FACULTY DEVELOPMENT PROGRAM

DAY 1: 8th December 2016

Sr No	Session Details	Timings
1	Opening session by Dr Amit Srivastava	08.30 AM -8.45 PM
2	Site Visit to IMD, New Delhi	8.45 AM to 4.00 PM

DAY 2: 9th December 2016
VENUE: CADD LAB

Sr No	Session Details	Timings
1	University level slot for FDP	9.00 AM to 10.00 AM
2	Session by Brig Amrit Sandhal	10.00 AM to 11.00 AM
3	Session by Mr Saurabh Jolly on "Need to look beyond mainstream renewable-The next big thing"	11.15 AM to 12.15 AM
4	Lunch Break	12.15 PM to 1.00 PM
5	Presentation on Department Tracker and progress by Ms Megha Kalra	1.00 PM to 2.00 PM
6	University level slot for FDP	2.00 PM to 4.00 PM

DAY 3:10th December 2016
VENUE: CADD LAB

Sr No	Session Details	Timings
1	University level slot for FDP	9.00 AM to 10.30AM
2	University level slot for FDP	10.30 AM to 11.30 AM
3	Session by Prof Pramila Goyal on EIA/EMP in Power plants	11.30AM to 12.30 PM
4	Lunch Break	12.30 PM to 1.00 PM
5	Expert session by Dr KN Rai on Underground construction and safe disposal of nuclear waste	1.00 PM to 2.00 PM
6	University level slot for FDP	2.00 PM to 4.00 PM

DAY 4: 12th December 2016
VENUE: CADD LAB

Sr No	Session Details	Timings
1	Summer Internship and live project readiness	9.30 AM to 11.00 AM
2	University level slot for FDP	11.00 AM to 12.00 PM
3	Lunch Break	12.00 PM to 12.30 PM
4	Session on Matlab by Mr Lokesh Choudhary	12.30 PM to 2.00 PM
5	University level slot for FDP	2.00 PM to 3.00 PM

DAY 5:13th December 2016
VENUE: CADD LAB

Sr No	Session Details	Timings
1	Session by Ms Prerna Chauhan on "Say it with words" Building your vocabulary	10.00 AM to 11.00 AM
2	University level slot for FDP	11.00 AM to 12.00 PM
3	Lunch Break	12.00 PM to 12.30 PM
4	Session on curriculum revision and scheme modification	12.30 PM to 2.00 PM
5	University level slot for FDP	2.00 PM to 3.00 PM

DAY 6:14th December 2016
VENUE: CADD LAB

Sr No	Session Details	Timings
1	Visit to the Construction Bauma Conexpo Show, New Delhi, International trade fair for construction equipments, machinery, building materials, construction vehicles etc.	10.00 AM to 1.00 PM
2	Lunch Break	1.00 PM to 1.30 PM
3	Session by Dr SD Attri, IMD Delhi	1.30 PM to 2.30 PM
4	Tea Break	2.30 PM to 2.45 PM
5	University level slot for FDP	3.00 PM to 4.00 PM

A five day Faculty Development Program on Bridging the Gap between Industry and Academia was organized by the Department of Civil & Environmental Engineering from 8th to 14th December 2016

The FDP was a mixed bag of events, comprising of sessions like "Need to look beyond mainstream renewable-The next big thing" by Mr Saurabh Jolly , Vice President-Business & Strategy, Seafarradays Pvt Limited , a session by Session by Brig Amrit Sandhal (Ret) on seismic behavior of buildings etc. Some of the sessions were also taken by our Internal faculty like a Session by Prof Pramila Goyal on EIA/EMP in Power plants and a session by Ms Prerna Chauhan (CLL) on "Say it with words , a session on vocabulary building.

The Main goal of this FDP was to establish a link between the Industry and the University through interactive sessions with industry experts and also give an exposure to our faculty.

DAY 1

The day 1 of the FDP was inaugurated by Dr Amit Srivastava followed by the visit to the visit to the India meteorological Department ,IMD, Ministry of Sciences,New Delhi where the faculty of the Department got an opportunity to interact with all the function heads of IMD , visit each department and understand in detail the working of the forecasting and satellite units. Also they got an opportunity to witness the new technology based equipments recently adopted by IMD to improve their systems.

Through the visit the faculty also got an opportunity to meet the Deputy Director General Dr SD Attri and have a one to one interaction with him through which he highlighted various technological developments taking place at IMD and how various steps are being taken to make weather and rainfall predictions more accurate and reliable.

DAY 2

Day two was a mixture of events , two sessions were conducted by Industry experts where they spoke about the upcoming and important areas like structural safety against earthquakes and renewable.

An expert session was taken by Brig Amrit Sandhal (Ret) on seismic behaviour of buildings through which he addressed various issues like structural design of earthquake resistant buildings, increasing structural safety, various codes and methodologies of construction.He also spoke about seismic resistance of buildings and how existing building can also be made earthquake resistant, further he also discussed the behaviour of various kinds of building under different loading conditions

He also spoke about how the faculty can help the students improve upan their basics and what the industry is actually looking at while recruiting freshers.

The day also included a session by Mr Saurabh Jolly, Vice President-Business & Strategy, Seafarradays Pvt Limited a Need to look beyond mainstream renewable-The next big thing" The session was an eye opener as it highligjted the various issues with the conventional sources

of energy and how renewable can help us solve the problems in future.He also discussed the upcoming wave technology as a potential source of power in the future.

The day ended with a discussion on the Departmental tracker where the tracker and performance of the department was reviewed and each parameter was discussed and deliberated with further suggestions made as to how the departmental performance can be improved in the grey areas like consultancy etc.

DAY 3

A Session was taken by Prof Pramila Goyal on EIA/EMP in Power plants in which she explained the process of environmental Impact Assessment and the various steps involved in the process. She also deliberated on the various reports and procedures involved in EIA. She also discussed about the importance of practical hands on experience for actual implementation. She discussed in detail about ISO1400 and compared it with the International environmental standards. Prof Goyal also discussed the different sources of pollutants and their present condition Delhi, she also spoke about the importance inventory preparation and impact prediction in detail.

DAY 4

Day 4 was dedicated to the skill up gradation of the faculty through a session on Matlab taken by Mr Lokesh Choudhary for the faculty members followed by a small practice session. This gave an opportunity to the faculty to learn the software and practice the same.

There was also a brainstorming session on how to increase the number of live projects and internships with a focus on involving students on actual problem areas.

The readiness of existing B.Tech projects of final year for the best B.Tech project as also discussed and potential projects were identified and the scope of further was discussed and elaborated by respective mentors.

DAY 5

A session on vocabulary building “Say it with words” was taken by our internal faculty from CLL Ms Prerna Chauhan, the session was definitely one of the best. It was about the effectiveness of having a good and strong vocabulary and also through the session many new words were discussed and elaborated. The session was highly interactive and interesting.

The day ended with a brainstorming session on the need for curriculum revision, new members of BOS were proposed and new structure for 2017 was formulated. There was a discussion on the credit revision and scheme modification on the guidelines issued by Dean Academics.

DAY 6

Day 6 began with the visit to the Construction Bauma Conexpo Show which was an international trade fair for construction equipments, machinery, building materials,

construction vehicles etc. This was an excellent opportunity for the faculty to witness the best of technologies and machinery being used and developed in different parts of the World.

Various Countries were present under one roof showcasing their new construction equipments and technologies and this gave an excellent opportunity to the faculty to interact with these industry experts and also capture some new ideas for projects etc.

The Department of Civil & Environmental engineering organized a session by SD Attri, who is presently the Deputy Director General of India Meteorological Department, New Delhi. He has recently been elected as the Member of Commission for Atmospheric Sciences Management Group of World Meteorological Organization (WMO), Geneva Switzerland and Primary Contact of Global Atmosphere Watch in the country.

Dr Attri gave a session on Climate change and sustainability through which he gave a brief of the present condition of India in terms of the climate change, pollution levels, rainfall fluctuations etc.He also touched upon the various changes happening in the Country with respect to the global scenario in terms of temperature and various atmospheric parameters.

The session was definitely an educational yet a scary one, which bought us face to face with reality and showed us where we are headed as a country. It also gave us food for thought as engineers and managers, to think about our role in developing a better and sustainable nation.

Ms.Purnima Bajpai
Coordinator-FDP

Dr Amit Srivastava
HoD

RESOURCE POOL FOR FACULTY DEVELOPMENT PROGRAM

1.1 NCU FACULTY FROM CIVIL DEPARTMENT

Sl no	Name	Designation	Topic of lecture
1	Dr Amit Srivastava	Head of Department	Session on curriculum design
2	Prof Pramila Goyal	Distinguished Professor Emeritus	EIA of power plants
3	Mr Lokesh Choudhary	Faculty	Session on Matlab
4	Ms Megha Kalra	Faculty	Department Tracker
5	Mr Shubham Bansal	Faculty	Session on project readiness

1.2 FACULTY FROM OTHER DEPARTMENTS

Sl no	Name	Designation	Topic of lecture
1	Ms Prerna Chauhan	Visiting Faculty, CLL	Vocabulary building

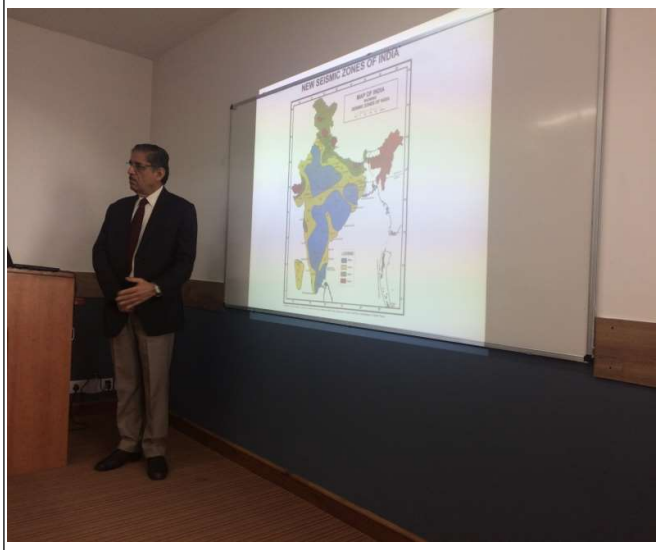
1.3 EXTERNAL EXPERTS

Sl no	Name	Designation	Topic of lecture
1	Brig Amrit Sandhal	Chief Consulting Engineer-Torsteel Research Foundation in India	Seismic resistance of buildings
2	Mr Saurabh Jolly	Vice President-Business & Strategy	Need to look beyond-Renewable energy
3	Dr SD Attri	Deputy Director General of Meteorology IMD, New Delhi	Climate change sustainability

PHOTOGALLERY

INDUSTRIAL

VISIT TO IMD



SESSIONBY BRIG SHANDHALON SEISMIC RESISTANCE OF BUILDING

SESSION ON MATLAB

VISIT TO THE CONSTRUCTION BAUMA CONEXPO SHOW

SESSION BY MR SAURABH JOLLY ON RENEWABLES

List of faculty attended the session

S.No.	Name	Signature
1	Prof. Pramila Goyal	
2	Dr. Amit Srivastava	
3	Dr. Anil Kumar Misra	
4	Ms. Purnima Bajpai	
5	Ms. Megha Kalra	
6	Mr. Lokesh Choudhary	
7	Mr. Shubham Bansal	
8	Mr. Akx Malik	
9	Mr. Diptendu Roy	

	MECH
	Duration of FDP - 05th to 10th June 2017
	BRIDGING THE GAP BETWEEN INDUSTRY AND ACADEMIA
1.	Research, Funding & Applications - Prof. R. Singh, Honorary Distinguished Professor
2.	Materials Management - Prof.Prem Vrat, Pro-Chancellor; Professor of Eminence & Chief Mentor
3.	Application of Bamboo in Engineering - Dr. Feras Al Hakak, Associate Professor
4.	Electric Vehicles - Mr. Vinod Hans, Managing Director (Federal Mougal)
5.	Positive Thinking - Dr. Rohit Lather, Associate Professor
6.	Fundamentals of Noise - Dr. S.P Nigam, Emeritus Professor
7.	Lean Systems - Prof. Ravindra Ojha, Director SOET
8.	Industrial Visit To POLYPLASTICS ENGINEERING INDIA PVT. LTD
9.	Office 365 - Mr. Deepak Satyarthi
10.	CAD/CAM/ CAE in Industries - Mr. Manoj Paweria, Senior Manager

FACULTY DEVELOPMENT PROGRAM

ON

BRIDGING THE GAP BETWEEN INDUSTRY AND ACADEMIA

June 5th to 10th, 2017

DEPARTMENT OF MECHANICAL ENGINEERING

OBJECTIVES

The 5 Day Faculty Development Program was planned with an agenda to bridge the gap between the Industry and academia. The objective of the FDP was to inculcate a better teaching learning process and get ideas to make the students industry ready for the trending market change in the running academic courses and also help the faculty understand the need of the Industry, thus overall making the department of mechanical engineering department scale to new heights.

OUTCOMES

The Faculty had interactions with eminent people from the industry and helped them gain a part of their experience through interactive sessions. Also it helped the faculty to understand the importance of effective teaching learning processes and how to make the students industry ready. The faculties also got the experience of the terms like "KAIZEN, 5S"being implemented live during the industrial visit at Polyplastics Engineering Pvt. Ltd., Bawal. The FDP also made the faculty aware of various upcoming important activities in the next semester and helped increase the readiness.

DAY WISE SCHEDULE

DAY 1 : 5th June 2017
VENUE: Conference Room

S No	Session Details	Timings
1	Research, Funding & Applications	Full Day

DAY 2 : 6th June 2017
VENUE: Room No 223

S No	Session Details	Timings
1	Materials Management	10.30 AM to 12.00 Noon
2	Application of Bamboo in Engineering	3.00 PM to 4:30 PM

DAY 3: 7th June 2017
VENUE: Room No 223

S No	Session Details	Timings
1	Electric Vehicles	11.00 AM to 1.00 PM
2	Positive Thinking	2:00 PM to 4:00 PM

DAY 4: 8th June 2017
VENUE: Room No 223/Seminar Hall

S No	Session Details	Timings
1	Fundamentals of Noise	11.00 AM to 1:00 PM
2	Lean Systems	2.00 PM to 3.00 PM

DAY 5: 9th June 2017
VENUE: Bawal

S No	Session Details	Timings
1	Industrial Visit To POLYPLASTICS ENGINEERING INDIA PVT. LTD.	Full Day

DAY 6: 10th June
VENUE: Room No 223/Seminar Hall

S No	Session Details	Timings
1	Session by Mr Deepak Sathyarthi on Office 365	11.00 AM to 1.00 PM
2	CAD/CAM/ CAE in Industries	2.30 PM to 4.30 PM

Day 1

Prof.R.Singh (Honarary Distuinghsed Professor, NorthCap University Academy Professor, Dept. of Mechanical & Aero. Engineering and OSU Emeritus Academy Director, NSF Smart Vehicle Concepts Center, The Ohio State University, Columbus, OH 43210 USA, Honorary Faculty Emeritus, NCU) visited NCU on 9/5/2017 to conduct faculty development program on research, funding and publications, in Mechanical Engineering Department. The FDP was attended by 18 faculty member and research scholar. Prof. Singh started his day at NCU with interaction with Hon'ble Pro VC and ended the mentorship program with interaction with Hon'ble Pro. Chancellor.

He engaged faculty members for five hours with exhaustive discussion on varied topics like, origins of research problems, formulation of research problems, resources or funding needed for research activities, scholarly publications and research credentials, elements of publications, independent work vs. collaborative, team oriented research, publication ethics. The discussion was open ended where faculty members were encouraged to present forth the problems they face pre, during and post-doctoral research work.

Faculties asked questions from various areas such as, the way to get industry based consultancy projects, significance of citations of any research articles, positive outcomes of attending conferences of international repute (ASME, Springer, Elsevier etc.), publication review process and related stages etc. Prof. Singh gave significant guidance to pursue research and gain worldly recognitions. He discussed about innovation paradigms with mechanism to generate highly skilled workforce for tomorrow. He also shared upcoming R&D topics for vehicle trends and needs along with role of academic research from students, faculty, industry /government perspective.

Day 2

The 2nd day began with a session on a very important topic "materials management" delivered by Prof. Prem Vrat, Pro-Chancellor, Professor of eminence and chief mentor. He discussed about the importance of materials management by stating that almost 80% cost of the final product lies in the material and management of the material to be used for the product..He also gave an insight that even a 10% savings in material cost and management can result in twice the salary of man power.

He also discussed about the importance of designers in material costing and material management. Further he gave a detailed informations regarding inventory and how the inventory plays one of the major parameters for good material management. He further told about the indicators of low material production and how these indicators can be rectified to increase the efficiency of the industry.

He further discussed about the problem of inventory and quoted nature as the perfect example of zero inventory system. He further explained the co-relation between " supply/procurement sub system, production sub system and the distributors/marketing sub-system" and different factors which work as the spring between those three departments in the industry.

As an outcome of the session, faculties of the department discussed about the scope of the material management as a course in the curriculum. Proposals were made to include material management as a part of the curriculum.

Key Deliverable :

- Students will be motivated to take the subject of " materials management " as a part of their curriculum.

The 2nd session in the afternoon was taken by Dr. Feras-Al-Hakkak, Associate Professor from the department of Mechanical engineering on the topic "Applications of bamboo in engineering". Firstly, he discussed about the importance of bamboo as a plant. Further he explained different mechanical properties of the bamboo which can be used or enhanced for use in the engineering fields.

He discussed about the different applications of bamboo in the engineering field and the challenges to be faced during the application. A widespread knowledge of bamboo was given to the faculties during the session and the potentials in engineering field which a proper utilization of bamboo can meet.

Faculties discussed the mechanical aspects of the bamboo and came to a conclusion that a number of research work can be done in this field. Also proposals were made to carry out some research work in collaboration with the other departments of engineering in the university.

Some of the proposed topics were working on the bamboo reinforced concretes, research on bamboo joining systems, working on financial viability of cultivating Haryana

Key Deliverable:

- Research works are being planned in the area of applications of bamboo in engineering field

Day 3

The 3rd day began with the morning session on an interesting and trending topic " The future of powertrain/ trend for electrification " delivered by Mr. Vinod Hans, Managing director of Federal Mougal. He began with the issue of not targeting the right causes responsible for creating the pollution. He then further created a visualization of the Indian LV and MHV market scenario by 2021 based on current demand and pollution problems.

He further discussed about the types of pollutions with their root causes. He also discussed about the advantages and disadvantages as well as the applications of fuel cell vehicles. He gave some insights on the powertrain electrification technology including mild hybrid, hybrid electric vehicles and Battery electric vehicles and also mentioned the challenges imposed with these vehicles.

Mr. Hans agreed on the development of a mutual relationship of Federal Mougal with the department of mechanical engineering herein where the faculties and students can visit the

industry and enhance their domain skills with the practical knowledge from the industry, also creating an opportunity for the mechanical students to carry out a live project in the industry if any problem or situation demands of it. He also accepted the proposal of making some guest lectures on this trending and demanding topic which can make our students get exposed to the real world market scenario and get a glimpse of the upcoming demand of electric vehicles thus eradicating the pollution problems.

Key Deliverable :

- Guest lectures, visit to the industry by faculties or students may be done by making a collaboration with Federal Mougal

The 2nd session was taken by Dr. Rohit Lather, Associate Professor from the department of mechanical engineering on the topic of " Positive Thinking " where he discussed about the mind set required to be successful in our life. He discussed about the various stories of the successful people and how their positive thinking and their will to follow their passion led them to their goals.

The session became open to all of the faculty members and many of the faculties discussed the importance of positive attitude in the life by sharing their real life experiences which made them realize the need of the positive thinking. Dr. Rohit also discussed about some situations where a person can find himself/herself in tough situations and explained that how this positive thinking can lead that person to tackle those tough situations easily and come out of it.

Key Deliverable :

- Counselling centre should be opened both to take the grievances related to personal or professional life both for students and faculties to keep them motivated.

Day 4

The 4th day of the FDP began with a session on the topic "Fundamentals on noise" delivered by Prof. S.P Nigam an Emeritus professor in department of mechanical engineering. He explained the physical interpretation of noise in our daily life and what noise and vibrations can lead to. He discussed about the environmental noise pollution and their serious threats to the quality of life of a human being. He also discussed about the increasing noise levels in industries and urban areas leading to severe nuisance and annoyance.

He further explained the useful applications of noise, in the study of heart beats, dental extraction and gave on overview of how noise can be used for positive effects as well. He also gave information regarding the technical aspects of noise. He explained about the important frequency ranges for hearing thus giving informations on the acoustic loudness.

He also advised to bring more focus on this topic in the academic course curriculum as it is very important to have knowledge in topics like noise which has a major role to play in the pollution (noise pollution) and thus affecting our society. A proposal was made to prepare a course regarding this subject which can be offered in our curriculum with necessary lab setups required.

Key Deliverable :

- Course on " Noise " should be involved as a part of the curriculum.

The 2nd session of the day 4 was taken by Prof. Ravindra Ojha, director of school of engineering and technology and HOD of department of mechanical engineering on the topic "Lean Systems". He started the session with the saying "the world of organizations is moving to fewer, flatter, further and faster". With this he explained the physical interpretation of lean and different tools for creating a lean system in an organization.

He discussed about 5S and explained the every term of the tool and how these 5 terms of 5S can affectively increase the efficiency of the organization. He explained about the value stream mapping and push and pull system as one of the major components which if implemented in an effective way can increase the productivity of the organization. He also explained the tool KAIZEN for creating a lean system and co-related these tools with our day to day management of professional life.

He advised and discussed about bringing and implementing the lean system in our departmental activities and our professional life. He discussed how every industrial organization is implementing these tools for creating a lean system and hence getting an increased productivity and efficient utilization of resources and proposed to have a consensus on implementing these tools at departmental level and thus observe the better changes brought by it.

Key Deliverable :

- Implementation of Lean system in our organization at departmental level may be carried out and the results would be analyzed.

Day 5

All the faculty members of Mechanical Engineering department visited the, Polyplastics Engineering India Pvt. Ltd. Located at Bawal, Haryana where the Mr. Soni and Mr. Vikas made a useful and knowledgeable interaction with the faculties of the mechanical engineering department.

The faculties were first briefed about the whole plant and then were thoroughly explained about the machinery setups and the in-line processing being performed on the workpiece. The faculties were explained about the 350 tonn and 150 tonn injection moulding automatic machines which gave a huge practical exposure to the team of faculties. Further the faculties visited the paint shop and the assembly shop of the plant and understood the movement of the final product from the stage-I of injection moulding to the final stage of Packaging. A live application and implementation of tools for Lean system like 5S, KAIZEN was shown to the members which enhanced the understanding and knowledge of the term "Lean system".

At last an interactive session was held between Mr. Soni and the faculty members in which queries from the faculty members were entertained and explained by Mr. Soni. Proposals were also made to create an association between Polyplastics Engineering Pvt. Ltd. and the

department of mechanical engineering, NCU wherein students of mechanical department can visit and do a live project on a problem if faced in the industry. The session also came out with the proposals for making further visits of faculty members to their plant and also arranging guest lectures regarding their knowledge which can give an insight to the students about injection moulding and current market scenario of the products made of polyplastics.

Key Deliverable :

- Planning of making visits to the industry by the students and faculties for the better understanding of practical knowledge.

Day 6

The 2nd session was taken by Mr. Manoj Paweria, senior manager at TAIKISHA INDIA LTD, Gurgaon on the topic "Application of CAD/CAM & CAE in industries ". He began about the basic principles and differences in the automation brought in the industries in the last decade and stated the need for the automation as the increased customer expectations are leading to the better technologies. He further discussed about the future of mechanical product design determining the need for 3D software in the industries.

He discussed about the existing issues in the current 3D technology like the low productivity, working with a number of different CAD solutions leading to chaos, etc. He gave technological aspects of 3D printing, about the materials that can be used for 3D printing. He talked about eliminating costly prototyping by evaluating the various robot movements and paint parameters in the digital environment, thus leading to an optimum result.

Proposals were made to Mr. Manoj Paweria to make some guest lectures and give a knowledgeable session to the students of the mechanical engineering department on this topic "Applications of CAD/CAM/CAE in the industries" which can make our students aware of the changing requirements for the job profile where the knowledge of these softwares has become a necessity to become a proficient mechanical engineer.

Key Deliverable :

- Guest lectures may be arranged to make the students aware of the changing trend in the market of automation in the industry.

RESOURCES

INTERNAL EXPERTS

S No	Name	Designation	Topic of lecture
1	Prof.Prem Vrat	Pro-Chancellor; Professor of Eminence & Chief Mentor	Materials Management
2	Dr. Feras Al Hakak	Associate Professor	Application of Bamboo in Engineering
3	Dr. Rohit Lather	Associate Professor	Positive Thinking
4	Dr. S.P Nigam	Emeritus Professor	Fundamentals of Noise
5	Prof. Ravindra Ojha	Director SOET	Lean Systems
6	Mr Deepak Sathyarthi	Assistant Professor (System)	Office 365

EXTERNAL EXPERTS

S No	Name	Designation	Topic of lecture
1	Prof. R. Singh	Honorary Distinguished Professor	Research, Funding & Applications
2	Mr. Vinod Hans	Managing Director (Federal Mougal	Electric Vehicles
3	Mr. Manoj Paweria	Senior Manager	CAD/CAM/ CAE in Industries

SPEAKERS PROFILE

Vinod Hans
Managing Director
Federal-Mogul India
Federal-Mogul Corporation

Vinod Hans is Managing Director for Federal-Mogul India. Federal Mogul is engaged manufacturing of Powertrain components -Pistons/Rings/Engine Bearings, Valve Seats &Guides, Sparkplugs, Gaskets, System Protection. He joined Federal Mogul in July 2008 as Sales Director

Prior to joining Federal-Mogul, Hans was Head of Customer Relation Management in GKN Driveline India – a subsidiary of GKN Plc UK- engaged in manufacturing of automotive driveline components. In this role, he was responsible Sales, Engineering and Program management for all OE customers, aftermarket and Export from India.

Prior to joining GKN in 1996, he worked for about 9 years in various positions in Corporate projects, Product Development and Business Process restructing with Escorts group of companies . Escorts group was engaged in manufacturing of Motorcycles, Tractors and earthmovers and automotive components in JVs with various global companies.

Vinod Hans has done graduation in mechanical engineering and post-graduation business management . He has also undertaken Leadership and Executive Management Development program with university of Cranefield, UK and Cedep, University of Insead, France.

Manoj Paweria

Sr. Manager, Taikisha India LtdMr. Manoj Paweria is currently working as Head in the Engineering Design & Automation with Taikisha India Ltd, Gurgoan, Haryana. He has pursued his B.Tech from NIT Calicut. He has Done his MBA Executive from FMS Delhi University. He is well versed with Design Automation tools i.e. Intergraph PDS & SP3d Suite of applications and PTC's Pro/Engineer suite of solutions & Windchill PDM solution.

Dr. S.P NIGAM

He did Bachelor in Science from Allahabad University in the year of 1958. He did his B.E (hons) from Jabalpur University in the year 1961. He obtained his Masters in engineering from Jabalpur University in the year 1964. He further did Masters in technology from I.I.T Kharagpur in the year 1967.

He obtained his Doctor of Philosophy (PhD) in from Indiana Institute of Technology, Roorkee in Year 1976. He has delivered a number of Expert Lectures on Machine Design; Vibration; Noise and Noise Control in various Summer Schools and Short Term Courses held at Technical Teachers Training Institute, Bhopal; University of Roorkee, Roorkee; IIT Delhi, Modipuram Tyre Factory and ADE, D.R.D.O., Pune . He also conducted a Colloquium and Research Exposition on Vibration and Noise for the Engineers of BHEL, Hardwar in May, 1986.

He Organised and coordinated **13** Refresher/Continuing Education Courses on Measurement and Control of Mechanical Vibration and Environmental Noise Pollution in Industry, at University of Roorkee and at Thapar University,Patiala.

He has worked as the Organising Secretary of the 4th ISME National Conference on Mechanical Engineering 1981 and National Conference on Machines & Mechanisms-90 held at University of Roorkee, Roorkee.

PHOTO GALLERY

Session by Prof. Prem Vrat on Materials Management

Hands on by Dr. Sangeet Srivastava on SCILAB

Session by Prof. S.P Nigam on Fundamentals of noise

Session by Dr. Feras Al-Hakkak on Applications of bamboo in engineering

Session by Prof. Ravindra Ojha on Lean systems

Session by honorary distinguished Professor R. Singh on Research, funding and applications

ATTENDANCE SHEET

Faculty Development Programme-Department of Mechanical Engineering

Faculty Attendance Sheet

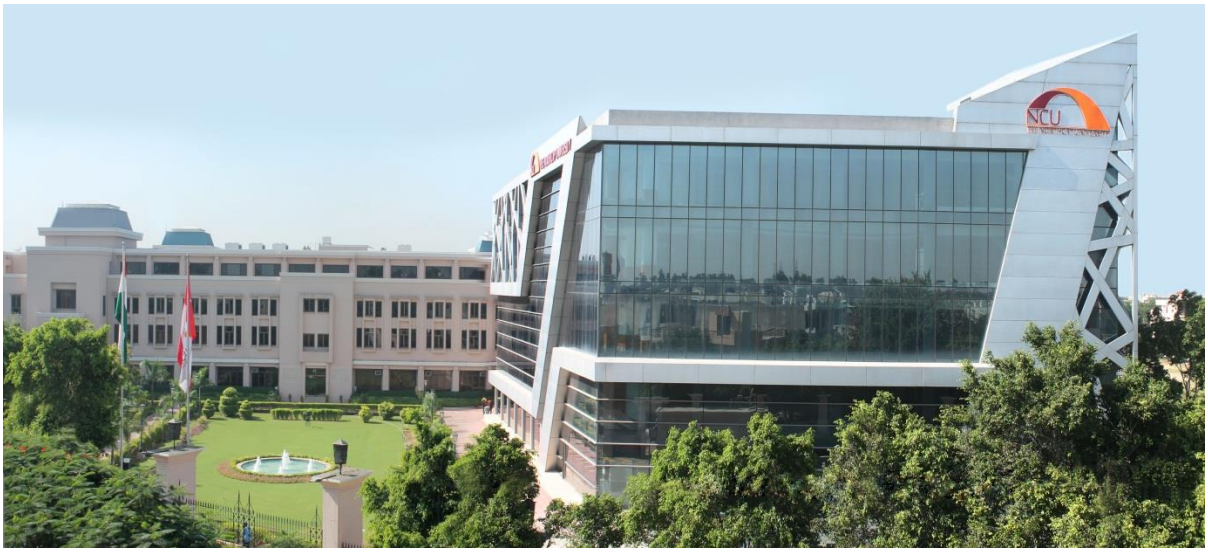
Sr.No	NAME	5/06/17 Day 1 Taken on 03/05/16	06/06/17 Day 2(I)	06/06/17 Day 2(II)	07/06/17 Day 3(I)	07/06/17 Day 3(II)	08/06/17 Day 4(I)	08/06/17 Day 4(II)	09/06/17 Day 5 Industrial Visit	10/06/17 Day 6(I)	10/06/17 Day 6(II)
1	Prof. Ravindra Ojha									OD	OD
2	Dr. Pramod Bhatia										
3	Dr. Ferras Al-Hakkak		on leave								
4	Dr. K Mathiyazhagan				On Leave						
5	Dr. Rohit Singh Lather										
6	Dr. Shiv Manjaree Gopaliya				On Leave						
7	Dr. Ashwini Sharma										
8	Mr. Manoj Kr. Gopaliya										
9	Mr. Abhishek Pratap Singh										
10	Ms. Shikha Kashyap										
11	Mr. Anuj Kr. Jain										

12	Mr. Anmol Bhatia				on leave	on leave					
13	Mr. Deepak Monga	—	on leave	on leave							
14	Mr. Gagan Baradia										Ab
15	Mr. Satnam Singh										
16	Mr. Jag Pravesh Dahiya										
17	Ms. Arohi Mathur										
18	Mr. Mohit Kataria										Ab
19	Mr. Praveen Singh										
20	Mr. Sanchit Mewar										

FACULTY DEVELOPMENT PROGRAM

SUMMER FDP REPORT

(July 2016)



02 to 08 July 2016

INTRODUCTION

Faculty Development Programmes (FDP) is designed to upgrade and rejuvenate faculty in their respective disciplines delivered by experts through a variety of methods and programs. The main objective is to train and develop faculty members so that they can act as resource persons in their field of work. FDPs aims at equipping teachers with skills and knowledge that are essential for inculcating values in students and guiding and monitoring their progress As per ongoing practice at ITM University, FDP are conducted in the form of a formal, ongoing efforts of organizations to improve the performance and self-fulfilment of their employees discipline through a series of lectures, case study, audio visual trainings, online, interactions, workshops, invited talks by eminent subject experts.

In recent years, training and development has emerged as a formal business function, an integral element of strategy, and a recognized profession with distinct theories and methodologies. To ensure ongoing progress and "continual learning", FDPs are organized to promote employee growth. Such development programs are very vital in any company or organization that aims at progressing. It puts emphasis on broader skills, which are applicable in a wide range of situations and aims to expand the knowledge base of all employees. Both employer and employees as a whole, benefit from these programs. Providing the necessary training creates an overall knowledgeable staff with employees who can take over for one another as needed, work on teams or work independently without constant help and supervision from others. An employee who receives the necessary training is better able to perform her job. She becomes more aware of safety practices and proper procedures for basic tasks. The training may also build the employee's confidence because she has a stronger understanding of the industry and the responsibilities of her job. This confidence may push her to perform even better and think of new ideas that help her excel. Continuous training also keeps your employees on the cutting edge of industry developments. Employees who are competent and on top of changing industry standards help your company hold a position as a leader and strong competitor within the industry.

1. Untrained Employees = Unhappy Employees. Employees who feel inadequate, underachieving, or unsupported are unhappy. They aren't satisfied in their work, which will cause them to underperform, make mistakes, and not care about their work product. That costs the business in lost time and money.

2. Untrained Workers Have a Low Production Value. The quality of their work is lower and of less value. The quality in performance is lower than it could (or should) be.

3. Untrained Workers Are Inefficient. More time (and therefore money) and effort is spent when employees aren't fully or properly trained to perform their tasks or to fulfil their responsibilities. It takes them longer to do the work.

4. Lost Time/Money Due to Mistakes. When an untrained worker makes a mistake, the time and materials used are lost. The work then has to be done again. Or worse, the inadequate product was delivered to the client.

5. An Increase in Miscellaneous Expenses. These are more difficult to track or attribute to untrained workers, but they are there. Creating a CAD drawing incorrectly means reprinting the file. That means it takes more time to fix the mistake, more materials cost in paper and ink, and more time rechecking the work. If it were done correctly the first time, these costs wouldn't be there.

In fact, the quality of employees and the continual improvement of their skills and productivity through training are now widely recognized as vital factors in ensuring the long-term success and profitability of small businesses. "Create a corporate culture that supports continual learning," counselled Charlene Marmer Solomon in *Workforce.* "Employees today must have access to continual training of all types just to keep up…. If you don't actively stride against the momentum of skills deficiency, you lose ground. If your workers stand still, your firm will lose the competency race."

For the most part, the terms "training" and "development" are used together to describe the overall improvement and education of an organization's employees. However, while closely related, there are important differences between the terms that center around the scope of the application. In general, training programs have very specific and quantifiable goals, like operating a particular piece of machinery, understanding a specific process, or performing certain procedures with great precision. On the other hand, developmental programs concentrate on broader skills that are applicable to a wider variety of situations, such as decision making, leadership skills, and goal setting.

MECHANICAL ENGINEERING

SUMMARY OF FDP LECTURES HELD DURING JULY 2016

	MECH
	Duration of FDP -02 to 08 July 2016
	MATLAB SIMULINK and ANSYS
1.	Introduction of basic MATLAB-Mr. Pradeep Rohilla
2.	Graph plotting and drafting- Mr. Pradeep Rohilla
3.	Data acquisition tool box- Mr. Karan Bandwar
4.	Optimization tool box- Mr. Karan Bandwar
5.	Introduction to ANSYS, Design and Geometry modular tool box- Mr. Karan Bandwar
6.	Drafting & design of component- Mr. Karan Bandwar
7.	Meshing Technique, Virtual topology, Direct modelling-Mr. Karan Bandwar
8.	Meshing quality criteria, Meshing trouble shooting- Mr. Karan Bandwar
9.	Modeling connections, contact control, spot welding- Mr. Karan Bandwar
10.	Mesh connections, joint definitions, practice on springs & beams-Mr. Karan Bandwar
11.	Introduction of simulink module. Mathematical modeling of real system- Mr. Pardeep Rohilla
12.	Design controller for real system- Mr. Pardeep Rohilla

FACULTY DEVELOPMENT PROGRAM

ON

MATLAB SIMULINK and ANSYS
July 2016

1.1 OBJECTIVES

The 6 Day Faculty Development Program was organized to promote use of MATLAB and ANSYS software and specific modules with an agenda improve faculty software skills. The objective of the FDP was to give faculty beginner level introduction to the software packages.

1.2 OUTCOMES

The Faculty learned about "MATLAB SIMULINK" and "ANSYS" from the speaker's and had hands on experience by practicing tutorials during the FDP sessions. This FDP helped them gain beginners level experience on the software through interactive sessions.

DAY WISE SCHEDULE FOR FACULTY DEVELOPMENT PROGRAM

Session	Session Details	Time Slot	Trainer	Venue
Day 1: 02/07/16 MATLAB	Introduction of basic MATLAB	09.30 A.M. – 12.30 Noon	Mr. Pradeep Rohilla	PG Lab
	Lunch Break	12.30 Noon to 01.30 P.M		
	Graph plotting and drafting	01.30 P.M to 05.00 P.M		
Day 2: 04/07/16 MATLAB	Data acquisition tool box	9.30 A.M. – 12.30 Noon	Mr. Pradeep Rohilla	PG Lab
	Lunch Break	12.30 Noon to 01.30 P.M		
	Optimization tool box	01.30 P.M to 05.00 P.M		
Day 3: 05/07/16 ANSYS	Introduction to ANSYS, Design and Geometry modular tool box,	9.30 A.M. – 12.30 Noon	Mr. Karan Bandwar (ANSYS)	CAD Lab
	Lunch Break	12.30 Noon to 01.30 P.M		
	Drafting & design of component	01.30 P.M to 05.00 P.M		
Day 4: 06/07/16 ANSYS	Meshing Technique, Virtual topology, Direct modeling	9.30 A.M. – 12.30 Noon	Mr. Karan Bandwar (ANSYS)	CAD Lab
	Lunch Break	12.30 Noon to 01.30 P.M		
	Meshing quality criteria, Meshing trouble shooting	01.30 P.M to 05.00 P.M		

Day 5: 07/07/16 ANSYS	Modeling connections, contact control, spot welding,	9.30 A.M. – 12.30 Noon	Mr. Karan Bandwar ANSYS	CAD Lab
	Lunch Break	12.30 Noon to 01.30 P.M		
	Mesh connections, joint definitions, practice on springs & beams	01.30 P.M to 05.00 P.M		
Day 6: 08/07/16 MATLAB	Introduction of simulink module. Mathematical modeling of real system	9.30 A.M. – 12.30 Noon	Mr. Pradeep Rohilla	PG Lab
	Lunch Break	12.30 Noon to 01.30 P.M		
	Design controller for real system	01.30 P.M to 05.00 P.M		

Day 1

MATLAB (matrix laboratory) is a fourth-generation high-level programming language and interactive environment for numerical computation, visualization and programming. It allows matrix manipulations; plotting of functions and data. It has numerous built-in commands and math functions that help in mathematical calculations, generating plots, and performing numerical methods. The day 1 was dealing with Matrices, 2-D and 3-D Plotting and graphics. The objective of this is how to utilize the plotting and graphics in their research work for better representation.

Day 2

Data Acquisition Toolbox™ provides functions for connecting MATLAB® to data acquisition hardware. The toolbox's data acquisition software includes functions for controlling analog input, analog output, counter/timer, and digital I/O subsystems of a DAQ device. With the toolbox you can analyze data as you acquire it or save it for post-processing. You can also automate tests and make iterative updates to your test setup based on analysis results. This tool box help in research and project work. To the accurate data is play a vital role in any real time project. This was well explained in day2 with real time example.

Day 3

Introduction to ANSYS, Introduction to General Working of ANSYS, Functions and Elements in ANSYS Analysis FEA through ANSYS Effective Utilization, Advantages and Limitations of ANSYS Software, Types of analysis, System Requirements Getting Started with ANSYS Interactive Mode Batch Mode Starting a New File Using the ANSYS Product Launcher window ANSYS Output Window ANSYS Metaphysics Utility Menu Window (ANSYS Session)

Day 4

Setting the Analysis Preferences, Units in ANSYS, Important Terms Related to ANSYS Dialog Boxes, Graphics Display, Panning, Zooming, and Rotating the model, Dividing the Graphics Area, The Pan-Zoom-Rotate, Dialog Box Graphics, Picking Using Mouse Buttons for Picking ANSYS, Database and Files Saving the File Resuming the File Clearing the Database, Some Basic Steps in General Analysis Procedure Points to Remember while Performing an Analysis Exiting ANSYS Self-Evaluation, Basic Solid Modeling, Solid Modeling in ANSYS, Considerations before Creating a Model for Analysis, Creating Geometric Entities, Creating and Modifying Work planes, Creating Coordinate Systems in ANSYS

Day 5

Solid Modeling: Solid Modeling, Creating Volumes, Extruding Entities. Extending the Line Creating Complex Solid Models by Performing Boolean Operations, Modifying the Solid, Model Scale Move Copy Reflect Deleting, Solid Model Entities, Importing Solid Models, Importing the IGES File Importing Models from Pro/ENGINEER Importing the Model

Day 6

Simulink tool box is used to model a system and then simulate the dynamic behavior of that system. The basic techniques is used to create the simple model and complex models. it is a block diagram environment for multi-domain simulation. It supports simulation, automatic code generation, and continuous test and verification of embedded systems. Engineers everywhere use Simulink to get their ideas off the ground, including reducing fuel emissions, developing safety-critical autopilot software, and designing wireless LTE systems. Simulink can help to complete the real time projects

SPEAKER'S PROFILE

Mr. PRADEEP ROHILLA

Mr. Pradeep Rohilla currently working as assistant professor in mechanical engineering department in THE NORTHCAP university. He has 08 years teaching experience and 04-year industrial experience in field of Automation. He is working in MATLAB software for 06 years. He has completed many real time project in matlab/simulink. He has completed his B.tech in mechanical engineering from UPTU, Lucknow and M.tech in Robotics & Autmation from MDU, Rohtak. He is pursuing his ph.d in "Design of Intelligent controller for nonlinear system" from NCU, Gurgaon.

Mr. KARAN BANDWAR

Mr. Karan Bandwar is currently working on ANSYS v16.01 and APDL for complete Tech Support and academic Training. Covering the basic Linear Analysis and FEM. He have a sound knowledge of working in Alias Automotive 2014, Adobe Photoshop CS5, and Adobe Showcase with complete material application and representation techniques. He have experience in making Clay Model of Cars and also thermo Cole model. He has also completed the UNIGRAPHIX certificate course from INDO-GERMAN TOOL ROOM (IGTR), Indore. INDIA. He have completed the AUTOCAD certificate course. He also have the experience working in CATIA and PRO-E. February 2015 – Present (1 year 7 months) Hyderabad Area, India. . He is B.Tech in Mechanical Engineering. Working actively as Chairman of SAE INDIA Club at Bhabha Engineering & Research Institute, Bhopal. And also the Captain of "Mech Fire Racing" team participating in SAEINDIA BAJA 2012 competition held at Pitampur organised by NATRAX. Scuola Politecnica Di Design, Diploma in Car Design Tools, Automotive design and representation Techniques, Diploma 2013 – 201

ATTENDANCE SHEET

S. No.	Name
1.	Ms. Shikha Kashayap
2.	Dr. Feras Al Hakkak
3.	Dr. K Mathiazaghan
4.	Dr. Rohit Singh Lathar
5.	Mr. Pradeep Rohilla
6.	Mr. Abhishek Pratap Singh
7.	Mr. Deepak Monga
8.	Mr. Gagan baradia
9.	Mr. Anmol Bhatia

SUMMARY OF FDP LECTURES HELD DURING JUNE 2017

	CV & EE
	Duration of FDP – 05th to 10th June 2017
	SKILL ENHANCEMENT
1.	Opening session and major highlights of the FDP - Dr Amit Srivastava
2.	Session by Pro-VC Brig. SK Sharma
3.	Session on disaster safety auditing of built infrastructure and "Celebration of Environment Day" - Dr Chandan Ghosh , Professor , National Disaster Management Authority, New Delhi
4.	Session on Strategic plan of the Department - Dr Amit Srivastava
5.	Session on Research Publication & API Scores - Dr Anil Kumar Mishra
6.	Presentation of Department Tracker and brainstorming session on departmental improvement strategies - Ms Megha
7.	Software training on Staad Pro by Bentley
8.	Visit to NHAI NH8 Gawar construction project at IIFCO Chowk
9.	Session by Dr Umesh Sharma ,Department of Science & technology, Scientist E (combined session with CLL & APS)
10.	Session on Value education - CLL/SOM Faculty
11.	Session on Gender Discrimination – Dr Kanu Priya HOD SOL
12.	Industrial Visit to the Manesar commercial site of 12 acres by Jaquar
13.	Session on lean – Prof Ravindra Ojha DSOET
14.	Session on teaching effectiveness - combined session with CLL and APS
15.	Session on National Building Code 2016 - Brig Shandal
16.	Session by Dr PS Rana, Former chairman HUDCO and faculty mentoring
17.	Session on Office 365 - Mr Deepak Sathyarthi
18.	Session by Mr Arpit Gupta-ISB

FACULTY DEVELOPMENT PROGRAM

ON

SKILL ENHANCEMENT

JUNE 5th to 10th, 2017

DEPARTMENT OF CIVIL AND ENVIRONMENTAL

ENGINEERING

INTRODUCTION

The Department of Civil & Environmental Engineering organized a 6 day faculty development Program on skill enhancement from 5th to the 10th of June 2017. The FDP was planned for a mixed bag of events like special lectures by industry experts, software trainings, industry visits , discussions on strategic plan an department tracker, meditation sessions, sessions by eminent speakers from the Government sector , recreational activities etc.

OBJECTIVES

Continued employment and advancement for faculty members depends upon growth in teaching practices; thus, there is a need for faculty across all disciplines to understand best instructional practices and the strategies that develop effective teaching behaviours and skills.

Faculty members need to be prepared enough to cater to the changing needs of the system in order to deal with the rapid changes and shifting paradigms in education systems. Faculty Development Programmes (FDP) is designed to upgrade and rejuvenate faculty in their respective disciplines delivered by experts through a variety of methods and programs
The 6 Day Faculty Development Program was planned with the objective to train and develop faculty members so that they can act as resource persons in their field of work effectively and help in the following

- Instructional development which emphasized the development of faculty skills involving instructional technology, small group teaching, media, courses, and curriculum design
- Professional development which emphasized the development of individual faculty members in their professional responsibilities as educators, researchers, and administrators
- Organizational development which emphasized the requirements, and main concerns of the institution
- Career development which emphasized faculty preparation for career advancement
- Personal development which stressed on life planning, interpersonal and communication skills of faculty members.

DAY WISE SCHEDULE

DAY 1 : 5th June 2017
VENUE: Meeting Room no 26

S No	Session Details	Timings
	SESSION-I	
1	Opening session by Dr Amit Srivastava and major highlights of the FDP	9.30 AM to 10.00 AM
2	Session by Pro-VC Brig. SK Sharma	10.00 AM to 11.00 AM
4	Session by Dr Chandan Ghosh , Professor , National Disaster Management Authority, New Delhi on disaster safety auditing of built infrastructure and "Celebration of Environment Day"	11.15 AM to 12.45 PM
	SESSION-II	
5	Session by Dr Amit Srivastava on Strategic plan of the Department	2.00 PM to 3.00 PM
6	Session by Dr Anil Kumar Mishra on Research Publication & API Scores	3.15 PM to 4.15 PM

DAY 2 : 6th June 2017
VENUE: Meeting Room no 26

S No	Session Details	Timings
	SESSION-I	
1	Presentation of Department Tracker and brainstorming session on departmental improvement strategies by Ms Megha	9.30 AM to 10.30 AM
2	Software training by Bentley on Staad Pro	10.45 AM to 12.15 PM
	SESSION-II	
3	Visit to NHAI NH8 Gawar construction project at IIFCO Chowk	1.00 PM to 4.00 PM

DAY 3: 7th June 2017
VENUE: Meeting Room no 26

S No	Session Details	Timings
	SESSION-I	
1	Session by Dr Umesh Sharma ,Department of Science & technology, Scientist E (combined session with CLL & APS)	9.30 AM to 11.30 AM
2	Session by CLL/SOM Faculty on Value education	11.15 AM to 12.45 PM
	SESSION-II	
3	Session by Dr Kanu Priya on Gender Discrimination –HOD SOL	2.00 PM to 4.00 PM

DAY 4: 8th June 2017
VENUE: SITE

S No	Session Details	Timings
	SESSION-I	
1	Industrial Visit to the Manesar commercial site of 12 acres by Jaquar	8.30 AM to 1.30 PM
	SESSION-II	
2	Session by DSOET on lean	2.00 PM to 3.00 PM

DAY 5: 9th June 2017
VENUE: Seminar Hall and sports ground

S No	Session Details	Timings
	SESSION-I	
1	Combined Session with CLL and APS on teaching effectiveness	10.00AM to 12.00 PM
	SESSION-II	
2	Session by Brig Shandal on National Building Code 2016	1.00 PM to 2.00 PM
3	Session by Dr PS Rana, Former chairman HUDCO and faculty mentoring	2.00 PM to 3.00 PM

DAY 6: 10th June 2017
VENUE: Meeting Room No 26

S No	Session Details	Timings
	SESSION-I	
1	Session by Mr Deepak Sathyarthi on Office 365	11.00 AM to 1.00 PM
	SESSION-II	
2	Session by Mr Arpit Gupta-ISB	2.00 PM to 3.00 PM
3	Closing ceremony	3.00 PM to 3.30 PM

DAY 1

The FDP was inaugurated by the Head of the Department, Dr Amit Srivastava by a brief talk on the FDP layout. He discussed the history of the FDP's along with the discussion on importance of faculty development programs and how they can be effectively planned and executed to get the best output. He also discussed how FDP's can help in the growth of the University and Department and also the individual skill up gradation of the faculty.
The second session was taken by Brig SK Sharma, Pro, VC and Prof Dept of C & EE, the talk focused on the importance of a faculty development program and how it can help in the skill enhancement and improvements in the teaching learning process. He emphasized on critical thinking, creative learning and the importance of upskilling, active and lifelong learning. He also spoke about developing collaborations in core areas to prevent the declining trend in the engineering sector and help the University stand out and provide better facilities as compared to the competitors. He discussed the critical issue of converting the information into knowledge and ultimately converting into wisdom which can disseminated to the students to become team leaders, entrepreneurs and developers. He summarized by talking about the importance of self learning and introspection in order to increase the effectiveness of the teaching learning process.

The Department celebrated the World Environment day on the 5th June 2017 with full enthusiasm and vigour. The faculty of the Department organized a pledge taking ceremony on this auspicious occasion in the presence of Prof Prem Vrat, Brig SK Sharma, Col.Bikram Mohanty and Dr Ravinder Ojha.

They were joined by faculty from other departments of the University and some administrative staff .They also organized a poster making competition .The faculty from the C & EE department and from Centre for Languages and learning participated in the event and all teams came up with innovative ideas. The event was judged by Pro VC , Brig SK Sharma and the best poster award was obtained by the CLL Team. The session also included the screening of a short film on the environment which highlighted our role in its protection as engineers

A session was taken by Dr Chandan Ghosh, Professor National Institute of Disaster Management, New Delhi on disaster safety auditing of the Built infrastructure. He spoke about the structural safety of the building designed and constructed in New Delhi and how they would perform under an earthquake situation. He spoke about the concept of Bio toilets and how they are being used and developed in different parts of the Country. He also proposed developing a disaster management development centre at the NorthCap University and discussed on the involvement of students. He shared his experience in developing codes and standards to make Delhi more sustainable towards disasters in the future.

The post lunch session was conducted by Ms Megha Kalra on the departmental tracker, where there was a in depth discussion and review of the Department progress and also identification of grey areas and areas of improvement. There was a brain storming session on the criteria's which are important to be tracked at Departmental level and how these parameters can be effectively It tracked and monitored. During the session the quality improvement of the Department activities was also discussed.
Dr Anil Kumar Mishra took a session on Research publications and importance of API scores. He discussed in detail about the importance of quality research and the new UGC guidelines for the calculation and up gradation of API scores

DAY 2

Day 2 began with a brainstorming session on the strategic planned presented by Dr Amit Srivastava where he discussed in detail the plan for the next semester and the parameters which were of concern for the Department like the M.Tech admissions, Quality of B.Tech students at intake level, placement with core companies, alumni engagement , collaborations etc. There was also a discussion on increasing the consultancy and projects in order to increase visibility and generate income through NCUTC.

The second session was a software training on Staad Pro by Bentley , where there was a web based traing given by their trainers , which was informative and interactive and also allowed the Faculty to work individually on small projects during the training.
Post lunch the faculty visited the DMRC metro construction site in Satya Niketan, New Delhi where the faculty witnessed the girder launching process, and post tensioning activities, they also visited the testing labs and facilities.

DAY 3

Day 3 began with a session by Dr Umesh Sharma, Department Of Science and Technology, Scientist E on research career opportunities in Science & Technology and the National prog on R & D. This was a combined session with the faculty from Applied Sciences and CLL. Dr Umesh discussed in detail the various provisions of various schemes like FIST, CURE, PURSE etc and the benefits of each one of them, he also motivated the young and women scientists to do more quality research and publish in reputed journals. He gave insights on the review process and how to articulate the proposals and write them effectively.

He conducted a brainstorming session on writing effective proposals through proper literature survey, gap analysis, finances, manpower management and continuously work on good quality publication. He also enlightened the faculty about the various types of grants for national, international travel, funding, internship grants, partial grants for young scientists etc.

The second half of the day was full of activities and fun learning through a session by Dr Sushmita Wariach, HOD SOL, NCU On "driving individuals towards creative excellence". She spoke about creativity, inventions and innovative methods and how these attribute can help individuals towards achieving excellence. The session had activities and questionnaires and involved the entire audience. The session was a combined one with CLL faculty and definitely an enlighting one. She very nicely defined the definition of creativity and

innovation and how creativity could lead to innovation and ultimately increase effectiveness of individuals.
The latter half of the afternoon included another interesting session by Dr Kanu Priya, HOD SOL on "Gender Discrimination" The session mainly focussed on gender empowerment, changes in the law with respect to gender equality and moreover on gender sensitization.
She discussed about some cases and how the laws are also being misused by many citizens.She discussed the various provisions and changes the IPC 498 and how the Government is taking steps to sensitize the matter.

The session also included a talk by Mr Bilal Ahmed, Faculty, SOL who enlightened us about the Muslim laws and how it is actually being misused by many Political Parties .He also shared his insights about the Holy Quran and how it is used to create laws in the Muslim Countries. The session brought various alarming facts in front of the audience and definitely was an educational one.

DAY 4

The fourth day was an industrial visit to the NHAI GAWAR upgradation project, where the faculty visited their consultants office in sector 40 where their project manager explained their drawings & designs for the overpasses and underpasses etc and explained the entire project, the faculty moved to their IFFCO Chowk site where they saw the geo grids and geo nets being used for construction , the faculty also visited the Rajiv Chowk site where there was the construction of the overpass and underpass going on, their lab and testing facilities and also discussed future testing and consultancy services.

Post lunch DSOET conducted a session on LEAN systems and importance and application of LEAN in different segments. This was a combined session for SOET.

DAY 5

The day began with a wonderful and delighting session conducted by Ms Kritika , program associate at Createnet Education where she is working for development of leadership skills in the government school prinicipals. She gave a session on exploring effective ways of teaching and learning. Focusing on the current turmoils of today's world she motivated and spreads the message on overcoming them through various techniques.

Ms Vinita is an expert trainer at "Sahaj Marg Raja Yoga Heartfullness Meditation" made the faculty meditate and also made them understand the importance of YOGA is ones stressful lif and how it can help release the stress and work more effectively and also help people to increase the productivity in their lifestyles and lead them to understand and follow their inner purpose.The day ended with some sports activities like badminton and table tennis at the departmental level.

DAY 6

The 1st session was conducted by Mr. Deepak Sathyarthi and his team on Office 365, this was a combined session for SOET faculty, their trainers gave a training session to all faculty and also made them practice the software.

Post lunch there was a session taken by Mr Arpit Gupta , Alumni and owner of the BMG Group , his session was basically on inculcating a sense of ownership and accountability in managing businesses and the importance of innovation and risk taking in entrepreneurship. He discussed the latest technologies being used at his real estate sites and how they have been able to effectively manage huge projects effectively and efficiently. He also discussed the RERA guidelines, its pros and cons on the real estate developers and how these guidelines would make the system better and transparent.

The last session was taken by Dr PS Rana, Former chairman HUDCO and Chairman CIDC, on Land pooling and consolidation" He discussed the concept of land pooling , land inventory , classification an usage., he also spoke about various transferable development rights and various land acquisition problems associated with infrastructure projects .His discussion included a detailed discussion on PURA scheme and its provisions, urban and rural infrastructure development schemes. He also shared his valuable experiences as former chairman HUDCO and his various problems and challenges he faced and the steps he took to overcome the same.

The FDP ended by a vote of thanks by Ms Purnima Bajpai.

RESOURCES

INTERNAL EXPERT

S No	Name	Designation	Topic of lecture
1	Brig. S.K.Sharma	Pro Vice Chancellor	Orientation session on effective teaching and curriculum design
2	Dr Amit Srivastava	Head of Department	Session on FDP and strategic plan
3	Dr Anil Mishra	Faculty	Session on Research & API Scores
4	Ms Megha Kalra	Faculty	Session on departmental tracker
5	Dr Sushmita Wariach	HOD, SOM	Driving individuals towards creative excellence
6	Dr Kanu Priya	HOD, SOL	Gender Discrimination
7	Mr Bilal Ahmed	Assistant Professor	Muslim Laws

EXTERNAL EXPERTS

S No	Name	Designation	Topic of lecture
1	Dr Umesh Kumar Sharma	Department of Science & technology, Scientist E	Research Career opportunities in Science & technology
2	Dr Chandan Ghosh	Professor , National Disaster Management Authority, New Delhi	Disaster safety auditing of the Built infrastructure
3	Ms Kritika Gupta and Ms Vinita Upreti	Program associate at Createnet Education and expert trainer at "Sahaj Marg Raja Yoga Heartfullness Meditation	YOGA and effective teaching
4	Mr Arpit Gupta	Owner of B.M. Gupta Developers Pvt Ltd. and Council member of the ISBAA Delhi Chapter and Alumni of NCU	Entrepreneurship and innovation in the industry
5	Dr PS Rana	Former chairman HUDCO	Land management and laws

SPEAKERS PROFILE

Dr Chandan Ghosh
Professor
Head of the Geo-Hazard Risk Management Division

A professional Civil Engineer with specialization in earthquake geo-technology and a double doctorate degree holder from India and Japan, he joined the Institute in 2006. Prior to this, he had worked at Institute of Technology under Banaras Hindu University and Indian Meteorological Department. His area of expertise are reinforced earth, application of geo-synthetics for landslides, slope stability & erosion control, geotechnical & geophysical exploration, disaster resistant housing technologies, retrofitting and earthquake risk mitigation and management.

Ms Kritika
M.Tech in Chemical engineering from IIT Delhi.

She is presently a program associate at Createnet Education where she is working for development of leadership skills in the government school prinicipals. She is actively involved in exploring effective ways of teaching and learning. Focusing on the current turmoils of today's world she motivates and spreads the message on overcoming them through various techniques.

Ms Vineeta

Ms Vinita is an expert trainer at "Sahaj Marg Raja Yoga Heartfullness Meditation" and helps people with the aid of meditation to increase the productivity in their lifestyles and lead them to understand and follow their inner purpose. She has been well recognised for her work and has given heartfullness sessions at various places like:

- Indian Parliament, Cabinet ministers and secretaries
- Indian Railway sports teams
- Foreign Services Institute, Ministry of External Affairs.
- Air India employees

Mr Arpit Gupta

Council member of the ISBAA Delhi Chapter - 2015-2017 and an active member of Rotary club, under which I pursue my passion of working for the society which makes me connected with the nature & its learnings. Born in 1990 while being the 3rd generation of the family with metal manufacturing as its first of the core businesses. Completed his engineering in ECE from ITM Gurgaon in 2013.Got through the real transformational journey at ISBs PGP MFAB class of 2015. Since last 4 years, has been responsible for the real estate development business of the group called BMG Group India.

Dr. Umesh Kumar Sharma
Scientist E- Earth & Atmospheric Sciences & INSPIRE

"Innovation in Science Pursuit for Inspired Research (INSPIRE)" is an innovative programme sponsored and managed by the Department of Science & Technology for attraction of talent to Science. The basic objective of INSPIRE is to communicate to the youth of the country the excitements of creative pursuit of science, attract talent to the study of science at an early age and thus build the required critical human resource pool for strengthening and expanding the Science & Technology system and R&D base.

Dr Prem Singh Rana

PhD (Transport Engg. & Management),University of Newcastle Upon Tyne, U.K . P.G. Dip. Town & Country Planning (TTP),School of Planning and Architecture, New Delhi, India,B.Tech. (Civil), Indian Institute of Technology, New Delhi, India.

Extensive professional background with 44 years of varied experience in conceptualization, Planning, Designing, Appraising, Financing and implementation of housing and infrastructure projects all over the country. Initiated number of policy changes for promotion of mass housing, rental housing and in-situ urbanization to eliminate homelessness and slums. Has been generating out of the box innovative ideas and providing effective results in the housing and infrastructure sector.

Key Associations

- Past President, Indian Buildings Congress.
- Fellow, Royal Institute of Chartered Surveyors,(FRICS)
- Chairman, Common Wealth Games Village Enquiry Committee.
- Member, Punjab State Planning Board
- Member Delhi Vision Group
- Chairman, Northern Indian Centre, Delhi, Institution of Public Health Engineers India
- Vice Chairman, Engineering Council of India
- Member, Singapore Institute of Arbitrators
- Member, Advisory Council of IIT, Delhi
- Member Strategic Planning Group, IIT, Roorkee
- Chairman, Real Estate & Housing Working Committee, Royal Institute of Chartered Surveyors
- Member, International Scientific Committee of "Urban Transport" Wessex Institute of Technology, UK
- Chairman, Technical Committee IV on "Appropriate Technologies in Urban Transport", CODATU, France
- CII National Committee on Disaster Management (2006-07)
- Infrastructure Committee, PHD
- Vice Chairman, Governing Council and Chairman of the Programmes Committee of CDC
- Member, Standing Steering Group on Construction Law (CIDC/ICADR & ICC)
- Member, Governing Council International Council of Consultants

PHOTO GALLERY

PLEDGE CEREMONY

INDUSTRIAL VISIT TO THE NHAI GAWAR SITE GURGAON

SESSION BY DR SUSHMITA WARIACH ON DRIVING INDIVIDUALS TOWARDS CREATIVE EXCELLENCE

SESSION BY HEARTFULLNESS TEAM ON EFFECTIVE TEACHING & YOGA

SESSION BY Dr CHANDAN GHOSH AND ENVIRONMENTAL DAY CELEBRATION

SESSION BY DR UMESH SHARMA ON RESERACH BASED CAREER

SITE VISIT TO DMRC METRO STATION SITE , NEW DELHI

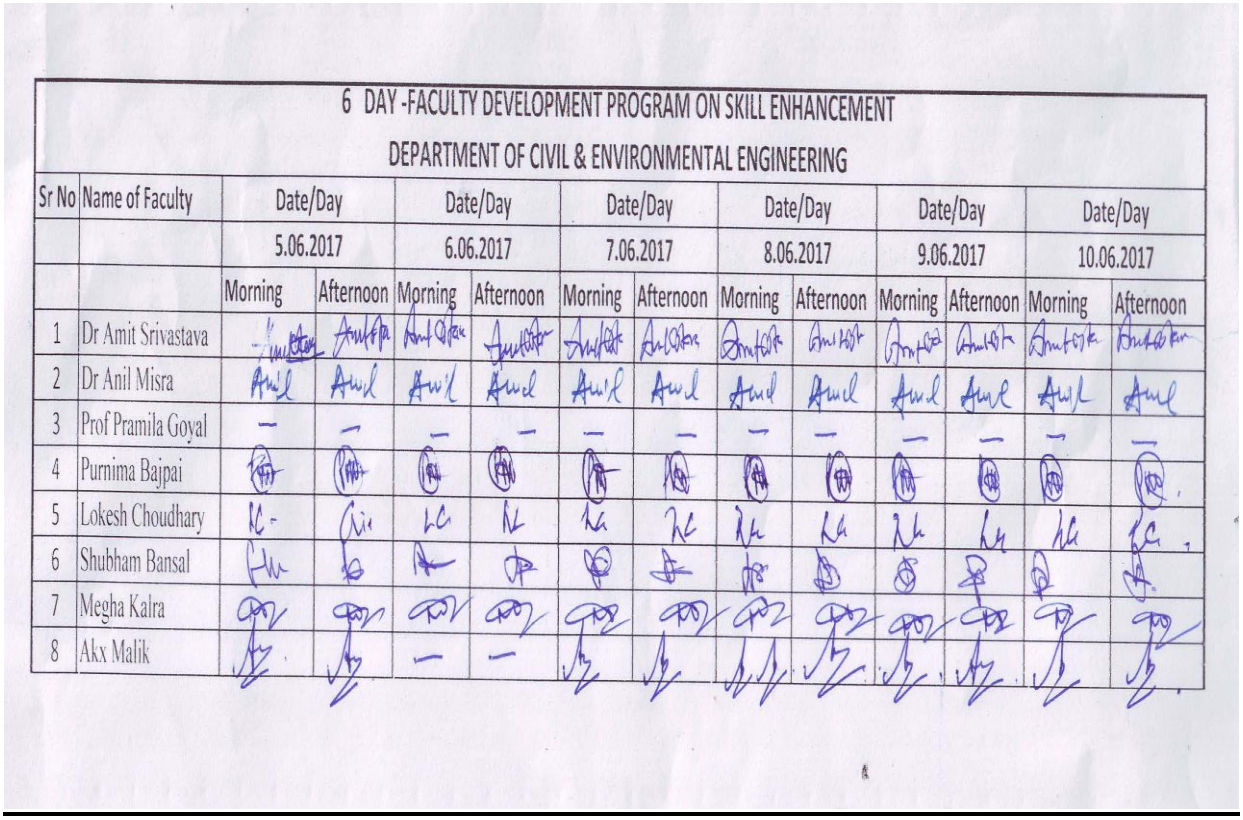
SESSION BY BRIG SHARMA

RECREATIONAL ACTIVITIES

SESSION BY DR KANU PRIYA ON GENDER DESCRIMINATION

SESSION BY MS KRITIKA ON BEING AN EFFECTIVE TEACHER	**SESSION BY DR PS RANA ON LAND MANAGEMENT**
SESSION ON MEDITATION & YOGA	**SESSION BY DR CHANDAN GHOSH, NIDM**

ATTENDANCE SHEET



6 DAY -FACULTY DEVELOPMENT PROGRAM ON SKILL ENHANCEMENT

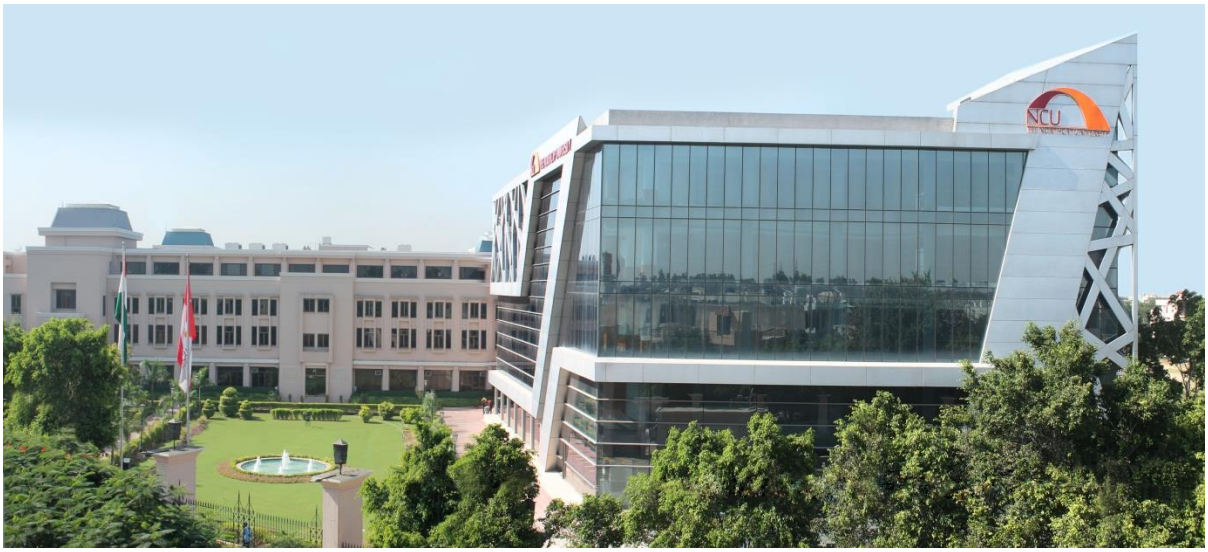
DEPARTMENT OF CIVIL & ENVIRONMENTAL ENGINEERING

Sr No	Name of Faculty	Date/Day		Date/Day		Date/Day		Date/Day		Date/Day		Date/Day	
		5.06.2017		6.06.2017		7.06.2017		8.06.2017		9.06.2017		10.06.2017	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
1	Dr Amit Srivastava												
2	Dr Anil Misra												
3	Prof Pramila Goyal	—	—	—	—	—	—	—	—	—	—	—	—
4	Purnima Bajpai												
5	Lokesh Choudhary												
6	Shubham Bansal												
7	Megha Kalra												
8	Akx Malik			—	—								

FACULTY DEVELOPMENT PROGRAM

SUMMER FDP REPORT

(July 2016)



04 to 11 July 2016

INTRODUCTION

Faculty Development Programmes (FDP) is designed to upgrade and rejuvenate faculty in their respective disciplines delivered by experts through a variety of methods and programs. The main objective is to train and develop faculty members so that they can act as resource persons in their field of work. FDPs aims at equipping teachers with skills and knowledge that are essential for inculcating values in students and guiding and monitoring their progress As per ongoing practice at ITM University, FDP are conducted in the form of a formal, ongoing efforts of organizations to improve the performance and self-fulfilment of their employees discipline through a series of lectures, case study, audio visual trainings, online, interactions, workshops, invited talks by eminent subject experts.

In recent years, training and development has emerged as a formal business function, an integral element of strategy, and a recognized profession with distinct theories and methodologies. To ensure ongoing progress and "continual learning", FDPs are organized to promote employee growth. Such development programs are very vital in any company or organization that aims at progressing. It puts emphasis on broader skills, which are applicable in a wide range of situations and aims to expand the knowledge base of all employees. Both employer and employees as a whole, benefit from these programs. Providing the necessary training creates an overall knowledgeable staff with employees who can take over for one another as needed, work on teams or work independently without constant help and supervision from others. An employee who receives the necessary training is better able to perform her job. She becomes more aware of safety practices and proper procedures for basic tasks. The training may also build the employee's confidence because she has a stronger understanding of the industry and the responsibilities of her job. This confidence may push her to perform even better and think of new ideas that help her excel. Continuous training also keeps your employees on the cutting edge of industry developments. Employees who are competent and on top of changing industry standards help your company hold a position as a leader and strong competitor within the industry.

1. Untrained Employees = Unhappy Employees. Employees who feel inadequate, underachieving, or unsupported are unhappy. They aren't satisfied in their work, which will cause them to underperform, make mistakes, and not care about their work product. That costs the business in lost time and money.

2. Untrained Workers Have a Low Production Value. The quality of their work is lower and of less value. The quality in performance is lower than it could (or should) be.

3. Untrained Workers Are Inefficient. More time (and therefore money) and effort is spent when employees aren't fully or properly trained to perform their tasks or to fulfil their responsibilities. It takes them longer to do the work.

4. Lost Time/Money Due to Mistakes. When an untrained worker makes a mistake, the time and materials used are lost. The work then has to be done again. Or worse, the inadequate product was delivered to the client.

5. An Increase in Miscellaneous Expenses. These are more difficult to track or attribute to untrained workers, but they are there. Creating a CAD drawing incorrectly means reprinting the file. That means it takes more time to fix the mistake, more materials cost in paper and ink, and more time rechecking the work. If it were done correctly the first time, these costs wouldn't be there.

In fact, the quality of employees and the continual improvement of their skills and productivity through training are now widely recognized as vital factors in ensuring the long-term success and profitability of small businesses. "Create a corporate culture that supports continual learning," counselled Charlene Marmer Solomon in *Workforce.* "Employees today must have access to continual training of all types just to keep up…. If you don't actively stride against the momentum of skills deficiency, you lose ground. If your workers stand still, your firm will lose the competency race."

For the most part, the terms "training" and "development" are used together to describe the overall improvement and education of an organization's employees. However, while closely related, there are important differences between the terms that center around the scope of the application. In general, training programs have very specific and quantifiable goals, like operating a particular piece of machinery, understanding a specific process, or performing certain procedures with great precision. On the other hand, developmental programs concentrate on broader skills that are applicable to a wider variety of situations, such as decision making, leadership skills, and goal setting.

SCHOOL OF LAW

SUMMARY OF FDP LECTURES HELD DURING JULY 2016

	SCHOOL OF LAW
	Duration of FDP – 04 to 11 July 2016
	CONTEMPORARY LEGAL ISSUES
1.	Moderation of grades-Mr. Manoj Kumar Gopaliya
2.	Utilization of Lexis Nexis Database for Legal Research-Mr. Sumit
3.	Secondary Research Tools-Mr. Satendra
4.	Dissemination of Legal Aid and Assistance-Mr. Piyush
5.	Plagiarism in Research-Mr. Deepak Sharma

FACULTY DEVELOPMENT PROGRAMME

ON

CONTEMPORARY LEGAL ISSUES

JULY 2016

The **Faculty Development Programme (FDP)** of the NCU Law School aims at the professional and academic development of faculty members and legal professionals. NCU Law School is now pleased to announce its 5 Days Faculty Development Programme, which will be conducted from **July 4-11, 2016.**

The purpose of this Program is to provide an opportunity for distinguished scholars/ researchers/teachers to engage with the faculty members and share their experiences and prospective relating to teaching and research.

DAY WISE SCHEDULE FOR FACULTY DEVELOPMENT PROGRAMME

Venue: Room no. 320 (Old Building)

Date	Topic	Speaker
4th July 2016	Moderation of Grades	Mr. Manoj Kumar Gopaliya (Dy. Dean Academics , The Northcap University)
5th July 2016	Utilization of Lexis Nexis Database for Legal Research	Mr. Sumit (Delegate from Lexis Nexis)
6th July 2016	Secondary Research Tools	Mr. Satendra (Delegate from Manupatra)
7th July 2016	Dissemination of Legal Aid and Assistance	Mr. Piyush (Delegate from We the People)
8th July 2016	Plagiarism in Research	Mr. Deepak Sharma, Librarian, NCU

With an aim to invite Senior Professors and faculties from other Law Schools to provide a platform to analyse and discuss Contemporary Legal Issues, NCU Law School has conducted 5 Days Faculty Development Programme from 4-11th July, 2016. Mr. Manoj Kumar Gopaliya (Dy. Dean Academics, The Northcap University), Mr. Sumit Gandhi (Delegate from Lexis Nexis), Mr. Satendra Kumar (Delegate from Manupatra), Mr. Piyush (Delegate from We the People) and Mr. Deepak Sharma, Librarian, NCU came and delivered lectures on various Contemporary Legal Issues.

DAY 1

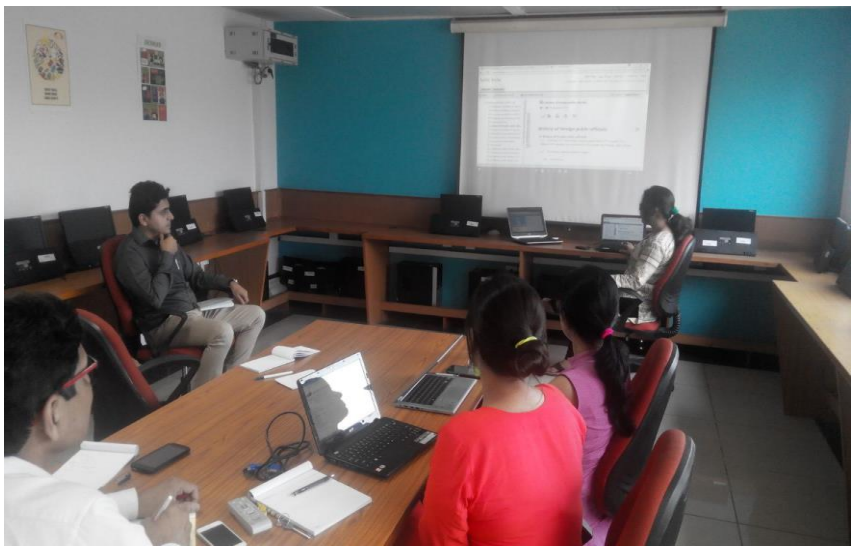
LECTURE BY: Mr. Manoj Kumar Gopaliya (Dy. Dean Academics, The Northcap University)

TOPIC: Moderation of Grades & Examination Rules and Regulations of the University

The Faculty Development Programme began with the informative lecture of Mr. Manoj Kumar Gopaliya, who is a distinguished member of the University and he gave insight moderation scheme along with the examination rules and regulations. He pointed out the importance of continuous moderation over the semester of the grades. He explained the importance of the examination module i.e. Minor-1, Minor -2, Major and the internal assessment.

DAY 2

LECTURE BY: Mr. Sumit Gandhi (Delegate from Lexis Nexis)

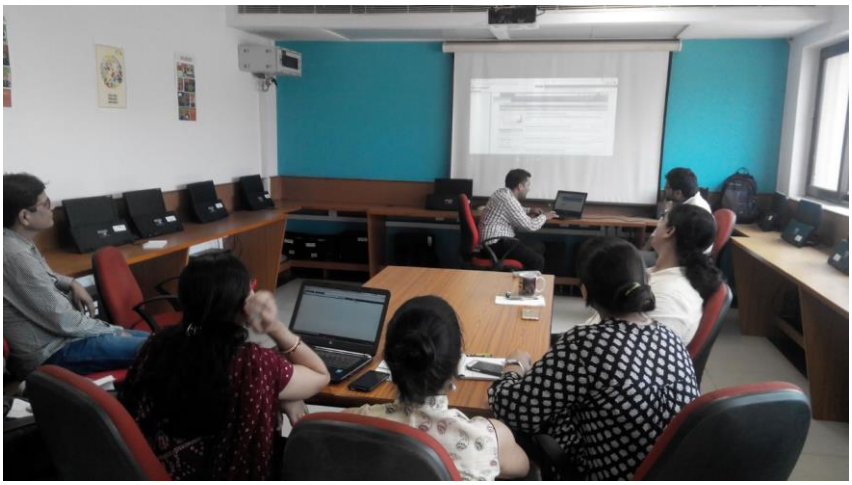


TOPIC: Utilization of Lexis Nexis Database for Legal Research

Research is one of the most important tools in the armoury of a Professor which can be utilised by the aid and assistance of various modes. We have Lexis Nexis as research portal available in our university. LexisNexis is a leading global provider of content-enabled workflow solutions designed specifically for professionals in the legal, risk management, corporate, government, law enforcement, accounting, and academic markets. The delate explained How Researchers can quickly and easily search full-text documents from over 17,000 credible sources of information and pinpoint relevant information for a wide range of academic research projects.

DAY 3

LECTURE BY: Mr. Satendra Kumar (Delegate from Manupatra)



TOPIC: Secondary Research Tools

The Delagate from Manupatra explained that Manupatra is an Initiative of learning research Centre. The Manupatra online legal Database provides judgments across all subjects of law of Supreme Court, all Indian High Courts, Orders of the Tribunals, bills, central and state Acts, notification and circulars, ordinances, committee reports and more. It is one of the best legal database providers in the country. On the left side of their home page

a feature called TOC is present which helps in sorting out research at the same time when the documents are in front of users on the screen. Two different kinds of search options are also available Manu search and legal search; Manu search is general search which can be used along with TOC feature to refine the search and legal search helps in finding documents with the help of citations. One of the most important tools provided by Manupatra is the Act Search which lists all the relevant acts. Commentary on the particular section in the act selected or the cases on that section of all the High Courts and Supreme Court can be easily browsed from it. Similar to the Track citation feature of the JSTOR, Manupatra also provides for a feature of tracking a particular search that in which document a particular case has been cited, by which court and in which year. It even gives a pie chart of the track, pointing out in which case the citation searched has been overruled or dissented.

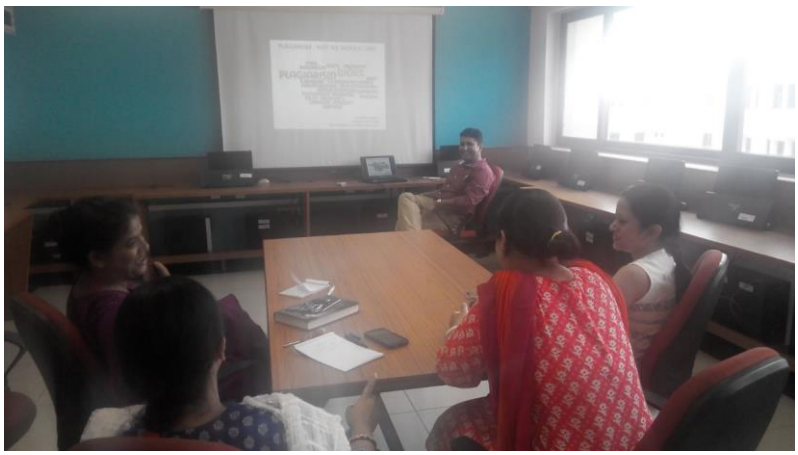
DAY 4

LECTURE BY: Mr. Piyush (Delegate from We the People)

TOPIC: Dissemination of Legal Aid and Assistance

"We, the People" is a network of individuals and organisations committed to responsible citizenship. Our vision for the next three years is, *"to ignite a million sparks across the country by initiating exploration, understanding and action towards being an active and responsible citizen". The representative explained that the importance of information dissemination.* With his insightful real life examples he raised various issues that we face in our day to day life and ignore.

DAY 5



LECTURE BY: Mr. Deepak Sharma, Librarian, NCU

TOPIC: Plagiarism in Research

Mr Deepak in this session apprised the faculties with the intricacies of anti- plagiarism software turnitin and also explained the meaning and purpose of plagiarism in legal research. The session had an interesting discussion on the Issue of whether the writings offered by Freelancers will have the repercussions of Plagiarism or not?

SPEAKER'S PROFILE

Mr. Manoj Kumar Gopaliya
Assistant Professor (Senior Scale) & Dy Dean (Academics)
Ph. D. (Pursuing) IITD Delhi,
M. Tech. (Engineering Mechanics) IIT Delhi,
B. E. (Mechanical Engineering) GEC, Jagdalpur (C. G.)

Mr. Gopaliya joined the University on 14th July, 2008. He is a Mechanical Engineering graduate from Govt. Engineering College, Jagdalpur, one of the premier institutes in Central India. He obtained his M. Tech. degree in the field of Engineering Mechanics from Indian Institute of Technology, Delhi in 2005. Before joining The NorthCap University Gurgaon, he was senior lecturer for three years in PDM College of Engineering, Bahadurgarh, one of the premier engineering colleges in the National Capital Region (NCR). He was also head of Mechanical Engineering Department there for last six months. He has been involved in teaching for various UG and PG courses. His fields of teaching are Fluid Mechanics and Machines, Strength of Materials, Computational Fluid Dynamics (CFD), Finite Element Methods etc. His area of research is Computational Fluid Dynamics. He is actively involved in research activities and successfully completed one AICTE sponsored project related to analysis of vehicular pollution using CFD. He has published eight papers in international and national journals and conferences. He is associated with professional societies like the Aeronautical Society of India and Indian Society of Technical Education (ISTE).

Mr. Deepak Sharma
Assistant Librarian
Chandragupt Institute of Management

Mr. Deepak Sharma is a Librarian with experience of over 11 years in library field. He has UGC NET qualified and pursuing PhD. He has attended over 35 conference, seminars and workshops. He has also edited one conference volume on Excellence in Academic Libraries: Vision for Future. He has given guest lectures at various institutes on Plagiarism, Research Methodology and Library advancements. He is instrumental in developing the library of The Northcap University to a High-Tech information resource centre with all facilities. Currently, He is working as Assistant Librarian in Chandragupt Institute of Management.

Mr. Satendra Kumar
Trainer Manupatra

He has pursued law from Allahabad University and practiced in the District Court of Lucknow. Presently is a Client Trainer with Manupatra. He has been doing trainings in major law institutes like NLU's, & Faculty of Law in University of Delhi from more than three years now.

Mr. Sumit Gandhi
Trainer Lexis Nexis

He has read law at Guru Gobind Singh Indraprastha University and practiced in the district Courts and the High Court of Delhi before joining LexisNexis as a Client Trainer. He has been doing trainings in major law institutes like NLU's, & Faculty of Law in University of Delhi from more than two years now.

Mr. Piyush Goel
Member Secretariat, We The people

Presently manages the North Secretariat of an NGO We The people and is based in Gurgaon. For 5 years he has been involved with various NGO's. As a part of Nirmaan Organisation at BITS Pilani – an NGO which works in Education, Sustainable Community Development and Women empowerment, has been teaching underprivileged kids, worked on community development, child labour eradication, and RTE.

ATTENDANCE SHEET

Name of the Faculty	Day 1	Day 2	Day 3	Day 4	Day 5
Prof. (Dr.) Pushpesh Pant	Y	Y	Y	Y	Y
Dr. Kanu Priya	Y	Y	Y	Y	Y
Dr. Arvind Bhanu	Y	Y	Y	Y	Y
Dr. Rahul Nikam	Y	Y	Y	Y	Y
Dr. Praveen Kumar	Y	Y	Y	Y	Y
Dr. Ritu Gupta	Y	Y	Y	Y	N
Mr. Subhradipta Sarkar	Y	Y	Y	Y	Y
Mr. Archana Sarma	Y	Y	Y	Y	Y
Ms Srishty Banerjee	Y	Y	Y	Y	Y
Ms Pallavi Bajpai	Y	Y	Y	Y	Y

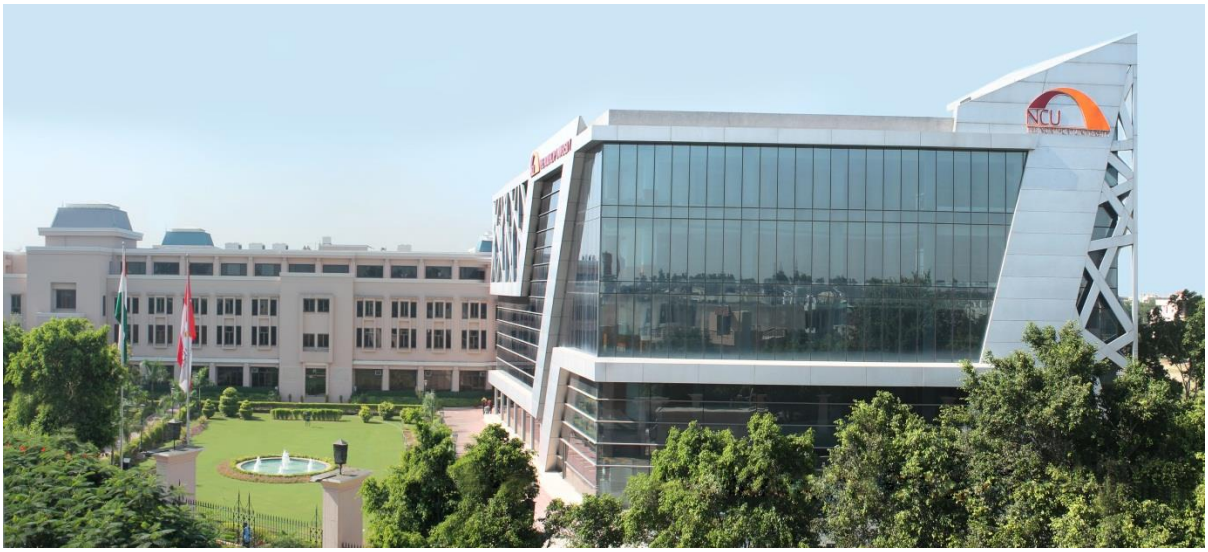
Y- Present

N- Absent

FACULTY DEVELOPMENT PROGRAM

SUMMER FDP REPORT

(July 2016)



INTRODUCTION

Faculty Development Programmes (FDP) is designed to upgrade and rejuvenate faculty in their respective disciplines delivered by experts through a variety of methods and programs. The main objective is to train and develop faculty members so that they can act as resource persons in their field of work. FDPs aims at equipping teachers with skills and knowledge that are essential for inculcating values in students and guiding and monitoring their progress As per ongoing practice at ITM University, FDP are conducted in the form of a formal, ongoing efforts of organizations to improve the performance and self-fulfilment of their employees discipline through a series of lectures, case study, audio visual trainings, online, interactions, workshops, invited talks by eminent subject experts.

In recent years, training and development has emerged as a formal business function, an integral element of strategy, and a recognized profession with distinct theories and methodologies. To ensure ongoing progress and "continual learning", FDPs are organized to promote employee growth. Such development programs are very vital in any company or organization that aims at progressing. It puts emphasis on broader skills, which are applicable in a wide range of situations and aims to expand the knowledge base of all employees. Both employer and employees as a whole, benefit from these programs. Providing the necessary training creates an overall knowledgeable staff with employees who can take over for one another as needed, work on teams or work independently without constant help and supervision from others. An employee who receives the necessary training is better able to perform her job. She becomes more aware of safety practices and proper procedures for basic tasks. The training may also build the employee's confidence because she has a stronger understanding of the industry and the responsibilities of her job. This confidence may push her to perform even better and think of new ideas that help her excel. Continuous training also keeps your employees on the cutting edge of industry developments. Employees who are competent and on top of changing industry standards help your company hold a position as a leader and strong competitor within the industry.

1. Untrained Employees = Unhappy Employees. Employees who feel inadequate, underachieving, or unsupported are unhappy. They aren't satisfied in their work, which will cause them to underperform, make mistakes, and not care about their work product. That costs the business in lost time and money.

2. Untrained Workers Have a Low Production Value. The quality of their work is lower and of less value. The quality in performance is lower than it could (or should) be.

3. Untrained Workers Are Inefficient. More time (and therefore money) and effort is spent when employees aren't fully or properly trained to perform their tasks or to fulfil their responsibilities. It takes them longer to do the work.

4. Lost Time/Money Due to Mistakes. When an untrained worker makes a mistake, the time and materials used are lost. The work then has to be done again. Or worse, the inadequate product was delivered to the client.

5. An Increase in Miscellaneous Expenses. These are more difficult to track or attribute to untrained workers, but they are there. Creating a CAD drawing incorrectly means reprinting the file. That means it takes more time to fix the mistake, more materials cost in paper and ink, and more time rechecking the work. If it were done correctly the first time, these costs wouldn't be there.

In fact, the quality of employees and the continual improvement of their skills and productivity through training are now widely recognized as vital factors in ensuring the long-term success and profitability of small businesses. "Create a corporate culture that supports continual learning," counselled Charlene Marmer Solomon in *Workforce.* "Employees today must have access to continual training of all types just to keep up…. If you don't actively stride against the momentum of skills deficiency, you lose ground. If your workers stand still, your firm will lose the competency race."

For the most part, the terms "training" and "development" are used together to describe the overall improvement and education of an organization's employees. However, while closely related, there are important differences between the terms that center around the scope of the application. In general, training programs have very specific and quantifiable goals, like operating a particular piece of machinery, understanding a specific process, or performing certain procedures with great precision. On the other hand, developmental programs concentrate on broader skills that are applicable to a wider variety of situations, such as decision making, leadership skills, and goal setting.

ELECTRICAL, ELECTRONICS & COMMUNICATION ENGINEERING

SUMMARY OF FDP LECTURES HELD DURING JULY 2016

	EECE
	Duration of FDP -01 to 08 July 2016
	BIG DATA ANALYTICS
1.	Introduction to java Programming, JVM, JRE, JDK, variables and data types, conditional and looping constructs, functions Classes, Constructor, Overloading methods- Mr Gaurav
2.	Abstract classes and methods, Interfaces, Errors and Exception, Run-time errors, Compile-time errors, The exception class, Use of Try-Catch block, Finalize, SQL- Richa Chhabra
3.	Arrays, Multidimensional array, array of objects, String, String Buffer- Mr Gaurav
4.	Putting classes together, Creating a package, Handling name clashing, Multithreading applications in java- Richa Chhabra
5.	Overriding methods, Polymorphism, Final, Static, Super- Mr Gaurav
6.	Thread application, Defining threads, java threads and states, Priority in threads- Richa Chhabra
7.	Fundamentals of Big Data, Introduction to Info Sphere Big Insights, Apache Hadoop and HDFS Overview-Debabrata Ghosh
8.	Introduction to Big Sheets, Making Data Available to Big Sheets, Importing Data into a Workbook- Debabrata Ghosh
9.	GPFS-FPO, Big Insights Web Console, Security, Introduction to MapReduce Exercise 2-MapReduce- Debabrata Ghosh
10.	Navigating a Workbook, Adding Sheets to a Workbook, Expressions and Functions- Debabrata Ghosh
11.	Adaptive Map Reduce, Setup, Configuration, and Administration of a Hadoop Cluster, Hadoop Configuration- Debabrata Ghosh
12.	Working with Functions, Big SQL Integration, Big SQL Integration- Debabrata Ghosh
13.	Overview of Oozie, Controlling Workloads with Oozie, Managing Job Execution, Moving Data into Hadoop, Using Flume for Data Loading- Debabrata Ghosh
14.	Big Sheets Visualizations, Analyzing Social Media and Structured Data- Debabrata Ghosh

FACULTY DEVELOPMENT PROGRAM

ON

BIG DATA ANALYTICS

JULY 2016

Objective & Summary of FDP

Six Days Faculty Development Program (FDP) was organized in July, 2016 for the faculty members of EECE department. The FDP was conducted on **"Big Data Analytics"**; the speakers for which were professionals from IBM. The experts from IBM took us through the journey of learning about Big Data and the IBM's Infosphere BigInsights application.

The prerequisite for understanding the Big Data Analytics was JAVA basics. So two-days JAVA training was conducted by CSE senior faculty member Mr. Gaurav Aggarwal. He was assisted by Ms. Richa Chhabra, another faculty member from CSE. This was followed by four days training on Big Data Analytics by IBM experts, Senior Managing Consultant-Mr. Debabrata Ghosh and Technology Lead-Mr. Jithin S L.

CSE faculty members gave hands-on session along with explanation of theory about JAVA programming. They set the pace for learning about Big Data. IBM professionals took us through the journey of learning about Big Data by multiple theory and practical sessions. All the theory discussed was reinforced by hands-on practice on their Infosphere BigInsights application. This was brought by the trainers and installed in CSE lab. All the sessions were enthusiastically attended by all the faculty members of EECE department.

The venues for the FDP were Labs 304 and 142. The program was formally inaugurated by Pro-VC S. K. Sharma and HOD, EECE. The program was attended by all the faculty members including HOD EECE, some lab technicians and some selected research scholars of the department. This 6-days FDP was a good learning experience for the faculty members and scholars.

	Friday, July 01, 2016		Saturday, July 02, 2016		Venue:
Timings	**Topic**	**Resource Person**	**Topic**	**Resource Person**	
9:45-10:00	**Inauguration (Lab 304)-Chief Guest Brig. S.K. Sharma (Retd.) Pro Vice Chancellor**				Lab 304
10:00-12:00	Introduction to java Programming, JVM, JRE, JDK, variables and data types, conditional and looping constructs,functions Classes, Constructor, Overloading methods,	Mr Gaurav, CSE&IT,NCU	Abstract classes and methods, Interfaces,Errors and Exception, Run-time errors, Compile-time errors, The exception class, Use of Try-Catch block, Finalize,SQL	Richa Chhabra CSE&IT,NCU	
12:00-12:55	LUNCH BREAK				
12:55-2:45	Arrays, Multidimensional array, array of objects, String, StringBuffer	Mr Gaurav, CSE&IT,NCU	Putting classes together, Creating a package, Handling name clashing, Multithreading applications in java	Richa Chhabra, CSE&IT,NCU	
2:45-3:00	TEA BREAK				
3:00-4:00	Overriding methods, Polymorphism, Final, Static, Super,	Mr Gaurav, CSE&IT,NCU	Thread application, Defining threads, java threads and states, Priority in threads	Richa Chhabra, CSE&IT,NCU	

	4 & 5 July 2016	7 & 8 July 2016	

9:00-11:00	Fundamentals of Big Data,Introduction to InfoSphere BigInsights,Apache Hadoop and HDFS Overview	Debabrata Ghosh - Senior Managing Consultant; Jithin S L - Technology Lead	Introduction to BigSheets,Making Data Available to BigSheets,Importing Data into a Workbook	Debabrata Ghosh - Senior Managing Consultant; Jithin S L - Technology Lead	Lab 142
11:00-11:15	TEA BREAK				
11:15-1:15	GPFS-FPO,BigInsights Web Console,Security, Introduction to MapReduce Exercise 2-MapReduce	Debabrata Ghosh - Senior Managing Consultant; Jithin S L - Technology Lead	Navigating a Workbook,Adding Sheets to a Workbook,Expressions and Functions	Debabrata Ghosh - Senior Managing Consultant; Jithin S L - Technology Lead	
1:15-2:00	LUNCH BREAK				
2:00-3:30	Adaptive MapReduce,Setup, Configuration, and Administration of a Hadoop Cluster,Hadoop Configuration	Debabrata Ghosh - Senior Managing Consultant; Jithin S L - Technology Lead	Working with Functions,Big SQL Integration,Big SQL Integration	Debabrata Ghosh - Senior Managing Consultant; Jithin S L - Technology Lead	
3:30-3:45	TEA BREAK				
3:45-5:00	Overview of Oozie,Controlling Workloads with Oozie,Managing Job Execution,Moving Data into Hadoop,Using Flume for Data Loading	Debabrata Ghosh - Senior Managing Consultant; Jithin S L - Technology Lead	BigSheets Visualizations,Analyzing Social Media and Structured Data	Debabrata Ghosh - Senior Managing Consultant; Jithin S L - Technology Lead	

DAY WISE SCHEDULE FOR FACULTY DEVELOPMENT PROGRAM

Inauguration of FDP

Inauguration of faculty development program (FDP) of EECE department took place at 9:45am on 1st July 2016 in Room No. 304. It was started by a welcome words by Dr. Rekha Vig, followed by lighting of lamps by Pro-VC Brig. S. K. Sharma (Retd.) and HOD EECE Prof. Swaran Ahuja and some senior faculty members of the department.

Welcome speech by Dr. RekhaVig

Inauguration of FDP by Pro-VC Brig. S. K. Sharma (Retd.) and HOD EECE

Brig S.K.Sharma(Retd.) delivered the opening lecture in the 6-days Faculty Development Programs organized in EECE department.

Brig. S. K. Sharma (Retd.) inaugurated the FDP of EECE department by speaking on the importance of FDPs held every 6 months in the university. He also guided the faculty members to attend this particular FDP enthusiastically, as it was to be delivered by IBM experts. So it would be a new experience to get to know about an entirely new and upcoming field.

Lecture Series on *JAVA Programming*

Speakers: *Mr. Gaurav Aggarwal & Ms. Richa Chhabra (CSE faculty members)*

Venue: *Room No. 304*

Time slot: *10.00am-4.00pm*

Date: *1st and 2nd July 2016*

Mr. Gaurav started with basics of JAVA and explained in detail about characteristics of JAVA. It focused on all important features of JAVA that a beginner should be aware about. He discussed about JAVA Programming, JVM, JRE, JDK, variables and data types, conditional and looping, constructs, functions, Classes, Constructor, Overloading methods. He also gave a brief introduction about Big Data and recent technology introduced for Big Data. The sessions were very informative and the audience got a good exposure to basics of JAVA.

Trainer (Mr. Gaurav Aggarwal) explaining the concepts of JAVA to the attendees

Ms. Richa Chhabra took the audience through the hands-on sessions on JAVA programming. She touched all basic features of JAVA programming through some small programs. Both Mr. Gaurav and Ms. Richa cleared the doubts of the faculty members in hands-on practical sessions.

Trainer (Ms. Richa Chhabra) explaining the concepts of JAVA programming to the attendees

Trainers (Mr. Gaurav Aggarwal and Ms. Richa Chhabra) clearing the doubts in JAVA programming

On second day Mr. Gaurav told us about the map reducing technique which is very important part of the Hadoop processing tool. He also taught us about how to put classes together, creating a package, Handling name clashing, Multithreading applications in java, creating objects and calling those objects in main java file, Thread application, defining threads, java threads and states, Priority in threads followed by hands on session on the java platform “Eclipse”.

At the end of two-days sessions on JAVA, the faculty members were familiar with basic terminologies in JAVA and all were ready to take up sessions on Big Data.

Lecture Series on *Big Data and Big Sheets*

Speakers: *Debabrata Ghosh and Jithin S L*

Venue: *Room No. 142*

Time slot: *9.00am-5.00pm*

Date: *4th to 8th July 2016*

The coordinators of FDP welcomed the speakers from IBM on day 3 of the FDP. The training was started by Mr. Jithin, he gave an overall picture about what Big Data is all about. He talked about various companies involvement in this domain and highlighted the IBM's contribution. IBM uses the application Infosphere BigInsights. The trainer discussed about the theory of the application and gave overview about its architecture. Many new terminologies were explained to the audience.

The coordinators of the FDP welcoming the trainers from IBM

Both the speakers Mr. Jithin and Mr. Debabrata told about the fundamentals of Big Data, introduction to InfoSphere BigInsights, Apache Hadoop and HDFS Overview GPFS-FPO, BigInsights Web Console, Security, introduction to Map Reduce. Mr. Debabrata emphasized on Hadoop architecture through very informative presentations. Map Reduce concept which is the core of Big data was explained through examples.

On day 4 of the FDP, Adaptive Map Reduce setup, a newer version of Map Reduce, was discussed. Trainers discussed about the configuration and administration of a Hadoop Cluster, Hadoop Configuration, overview of Oozie, controlling workloads with

Oozie, Managing Job Execution and Moving Data into Hadoop using Flume for Data Loading.
In the afternoon session, hands-on sessions were conducted on InfoSphere BigInsights. The audience worked through the steps given in the study material to understand the concepts of working on Big Data through virtual machine setup. Everybody worked on some tutorial exercises on Map Reduce algorithm. The trainers were ready to help in case of doubts.

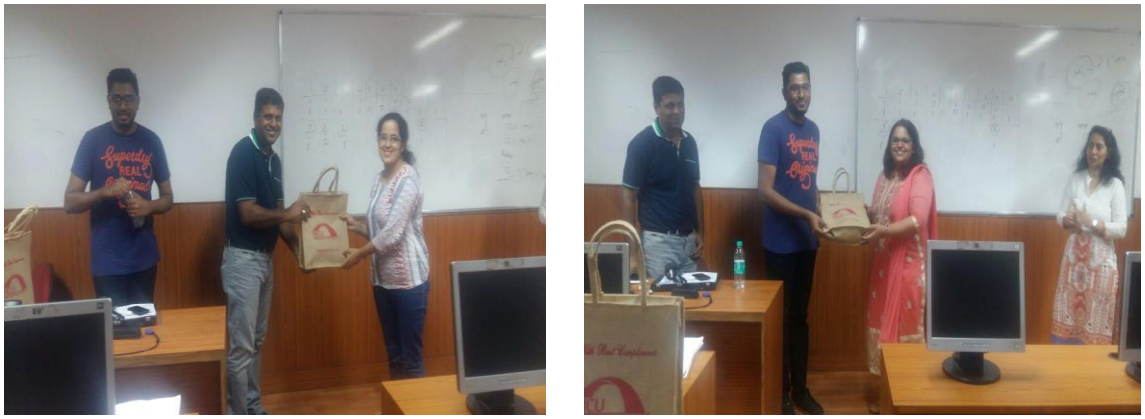
Mr. Debabrata Ghosh - Senior Managing Consultant (IBM) explaining about HDFS

On day 5 of FDP, Mr. Debabrata introduced the faculty members and research scholars to BigSheets and told about how to make data available to BigSheets, importing data into a workbook, navigating a workbook, adding Sheets to a workbook, expressions and Functions of BigSheets.
In the afternoon sessions, lab sessions were conducted to get an overview and feel about BigSheets and web console in BigSheets.

Mr. Jithin explaining the concepts of MapReduce

On day 6 of the FDP, the trainers taught us how to work with functions, Big SQL integration, BigSheets visualizations, analyzing social media and structured data. Usage of BigSheets in IoT based applications was discussed.

Quiz session being conducted by trainers towards the end of FDP



Mementos being offered to the trainers of FDP at the conclusion of FDP

In the afternoon session, all the concepts discussed in 4 days by IBM trainers were reinforced by revision. This was followed by written test conducted by the IBM trainers as an assessment of the FDP. Later the results of the assessment questions were discussed. Before the closing of the program a small quiz session was also conducted and the winner teams were rewarded.

The FDP concluded with giving of mementos to the trainers and the vote of thanks. The group photograph of all the participants was also clicked.

Feedback on FDP

1. FDP was on a new technology, so it was very informative and useful for all the EECE faculty members and research scholars.

2. This field of Big Data has a lot of scope, so it's a good idea to keep faculty members updated about the current technologies in the industry.

3. There are a few observations which we have shared with IBM.

    - The required software should have been loaded prior to the start of the session.
    - Flow of content could have been planned in a better way.
    - More insight into IOT related examples could have been given.
    - Faculty JITHIN could have delivered at a slower and steady pace. The writing on board was too small and largely unorganized.
    - The introduction to the software package could have been given prior to the practical session.

Ms. Mona Aggarwal
Ms. Vandana Khanna
(**FDP report writers**)

Ms. Kusum Grewal Dangi
Ms. Anjali Garg
Dr. Rekha Vig

(**FDP Coordinators- EECE Deptt**.)

SPEAKER'S PROFILES

MR. DEBABRATA GHOSH

Mr. Debabrata Ghosh is a Big Data Consultant in Cognitive Analytics at IBM, Kolkata centre.

Bachelors in Computer Science and Engineering from Madhav Institute of Technology and Science, Gwalior, Mr. Debabrata has 17+ years of IT experience (over 14 years in Telco Industry) in the area of Business Analytics ranging from Consulting, Pre-Sales, Solution Selling, Project Delivery and Support.

He also worked as Solution Architect and Project Manager in Tata Consultancy Services, where his key responsibilities included analyzing business requirements, defining business intelligence solution strategy and architecting enterprise data warehouse solution for various customers.

He authored and presented white papers in the area of Big Data Analytics Recognized industry speaker on loyalty strategy and customer analytics. He presented at several industry forums and universities.

Mr. Debabrata Ghosh is BigInsights Certified Professional and his key skills include Infosphere BigInsights / Streams, Big Data Strategy & Roadmap, Consultative Selling, Consulting and Bid Support and Big Data BVA Expert.

MR. JITHIN S L

Mr. Jithin S L is a Tehnology Lead in Bigdata Analytics & Strategy at IBM Bangalore centre.

Bachelors in Information Technology and communication engineering from Anna University, Chennai, Mr. Jithin has prior experience in Flytxt Mobile Solution Pvt Ltd, Infinite Computer Solution Ltd and Thomson Reuters.

He has worked on positions as Senior Consultant for Big Data analytics, technology Analyst for Big Data projects and Research Analyst for analytics division.

He presented papers in the area of Big Data Analytics and Machine learning. He is recognized industry speaker on strategy and customer analytics. He presented at several industry forums and universities. He reviewed Bigdata, ML cookbooks for Packet publication, UK.

Mr. Jithin's key skills include Bigdata solutions, Bigdata Architecture, Infosphere BigInsights, Cloudera, Hortonworks, Big Data Strategy & Roadmap, Consulting and Bid Support, Big Data Proposals, ETL,Teradata and Green Plum.

ATTENDANCE SHEET

Session: I
Date: Saturday, 02 July, 2016
Time:10:00-12:00
Speaker: Richa Chhabra, CSE&IT, NCU

Sr. No.	Name	Dept.	Sign	
1	Prof. Swaran Ahuja	EECE		10.05 A
2	Dr. Anjali Garg	EECE	Anjal	
3	Dr. Mayank Srivastva	EECE	9:50	
4	Dr. Neeraj Shukla	EECE		
5	Dr. Nitin Malik	EECE	On Leave.	
6	Dr. Rekha Vig	EECE		10:00 am
7	Dr. Sharda Vashisth	EECE		
8	Ms. Amanpreet Kaur	EECE	Amanpreet.	
9	Ms. Charu Rana	EECE	On leave.	
10	Ms. Kusum Dangi	EECE		9:55 am
11	Ms. Mona Agarwal	EECE		
12	Ms. Naresh Kumari	EECE		10:05 am
13	Mr. Pankaj Rakheja	EECE		9:55 A.M
14	Mr. Pavan Khetrapal	EECE		10:15 am
15	Ms.Pooja Sabherwal	EECE	Admission Duty	
16	Ms. Rakhi Nangia	EECE		
17	Mr. Saurabh Sachdeva	EECE		10:00 am
18	Ms. Shaveta Arora	EECE		10:00 Am
19	Ms. Vandana Khanna	EECE		10:00 am
20	Mr. Kashish Jhamb*	EECE		
21	Anshul Vats	EECE(PhD Scholar)		9:50 AM
22	Ram ~~Kumar~~ Sharma	EECE(PhD Scholar)		
23.	RAJESH YADAV -	EECE		9:80 Am
24	G. S. Aman	EECE		10:00 AM

Session: II
Date: Saturday, 02 July, 2016
Time: ~~12:55-2:45~~ 12:00 – 1:30 PM
Speaker: Richa Chhabra, CSE&IT, NCU

Sr. No.	Name	Dept.	Sign	
1	Prof. Swaran Ahuja	EECE		12:00 PM
2	Dr. Anjali Garg	EECE		
3	Dr. Mayank Srivastva	EECE		
4	Dr. Neeraj Shukla	EECE		
5	Dr. Nitin Malik	EECE	On leave	
6	Dr. Rekha Vig	EECE		
7	Dr. Sharda Vashisth	EECE		
8	Ms. Amanpreet Kaur	EECE	Amanpreet	
9	Charu Rana	EECE	On leave	
10	Ms. Kusum Dangi	EECE		11:55am
11	Ms. Mona Agarwal	EECE		
12	Ms. Naresh Kumari	EECE		11:55am
13	Mr. Pankaj Rakheja	EECE		11:55 am
14	Mr. Pavan Khetrapal	EECE		
15	Ms.Pooja Sabherwal	EECE	Admission Duty	
16	Ms. Rakhi Nangia	EECE		
17	Mr. Saurabh Sachdeva	EECE		11:55am
18	Ms. Shaveta Arora	EECE		11:58 AM
19	Ms. Vandana Khanna	EECE		12:00
20	Mr. Kashish Jhamb*	EECE		
21	Anshul Vats	EECE(PhD Scholar)		11:55 AM
22	Ram Kumar Sharma	EECE(PhD Scholar)		11:55 AM
23	RAJESH YADAV	EECE		11:55AM

Session: I
Date: Monday, 04 July, 2016
Time: 9:00-11:00
Speaker: Rahul Sen, Information Architect, BigData Analytics, IBM

Sr. No.	Name	Dept.	Sign	
1	Prof. Swaran Ahuja	EECE		
2	Dr. Anjali Garg	EECE		
3	Dr. Mayank Srivastva	EECE		
4	Dr. Neeraj Shukla	EECE		
5	Dr. Nitin Malik	EECE	On leave	
6	Dr. Rekha Vig	EECE		
7	Dr. Sharda Vashisth	EECE		
8	Ms. Amanpreet Kaur	EECE		
9	Charu Rana	EECE	On leave	
10	Ms. Kusum Dangi	EECE		
11	Ms. Mona Agarwal	EECE		
12	Ms. Naresh Kumari	EECE		9:00 am
13	Mr. Pankaj Rakheja	EECE		9:00 am
14	Mr. Pavan Khetrapal	EECE		9:07 am
15	Ms.Pooja Sabherwal	EECE	Admission duty	
16	Ms. Rakhi Nangia	EECE		
17	Mr. Saurabh Sachdeva	EECE		
18	Ms. Shaveta Arora	EECE		9.00am
19	Ms. Vandana Khanna	EECE		9:00 am
20	Mr. Kashish Jhamb*	EECE		
21	Anshul Vats	EECE(PhD Scholar)		9:25AM
22	Ram Kumar Sharma	EECE(PhD Scholar)		8.30AM
23.	RAJESH YADAV	EECE		9:25A
24	G. S Anand	EECE		9.45AM
25	Deepak Saini	EECE		
26	DIVYA JAIN	CSE		9.10 am

Session: II
Date: Monday, 04 July, 2016
Time: 11:15-1:15
Speaker: Rahul Sen, Information Architect, BigData Analytics, IBM

Sr. No.	Name	Dept.	Sign
1	Prof. Swaran Ahuja	EECE	
2	Dr. Anjali Garg	EECE	
3	Dr. Mayank Srivastva	EECE	
4	Dr. Neeraj Shukla	EECE	
5	Dr. Nitin Malik	EECE	On leave
6	Dr. Rekha Vig	EECE	
7	Dr. Sharda Vashisth	EECE	
8	Ms. Amanpreet Kaur	EECE	
9	Charu Rana	EECE	On leave
10	Ms. Kusum Dangi	EECE	
11	Ms. Mona Agarwal	EECE	
12	Ms. Naresh Kumari	EECE	
13	Mr. Pankaj Rakheja	EECE	
14	Mr. Pavan Khetrapal	EECE	
15	Ms.Pooja Sabherwal	EECE	
16	Ms. Rakhi Nangia	EECE	
17	Mr. Saurabh Sachdeva	EECE	
18	Ms. Shaveta Arora	EECE	
19	Ms. Vandana Khanna	EECE	
20	Mr. Kashish Jhamb*	EECE	
21	Anshul Vats	EECE(PhD Scholar)	
22	Ram Kumar Sharma	EECE(PhD Scholar)	
23	Deepak Saini	EECE	
24	DIVYA JAIN	CSE	
25	G. S	ECE	

Session: III
Date: Monday, 04 July, 2016
Time: 2:00-3:30
Speaker: Rahul Sen, Information Architect, BigData Analytics, IBM

Sr. No.	Name	Dept.	Sign
1	Prof. Swaran Ahuja	EECE	
2	Dr. Anjali Garg	EECE	
3	Dr. Mayank Srivastva	EECE	
4	Dr. Neeraj Shukla	EECE	
5	Dr. Nitin Malik	EECE	On leave
6	Dr. Rekha Vig	EECE	
7	Dr. Sharda Vashisth	EECE	
8	Ms. Amanpreet Kaur	EECE	
9	Charu Rana	EECE	On leave.
10	Ms. Kusum Dangi	EECE	
11	Ms. Mona Agarwal	EECE	
12	Ms. Naresh Kumari	EECE	
13	Mr. Pankaj Rakheja	EECE	
14	Mr. Pavan Khetrapal	EECE	2:15pm
15	Ms.Pooja Sabherwal	EECE	
16	Ms. Rakhi Nangia	EECE	
17	Mr. Saurabh Sachdeva	EECE	
18	Ms. Shaveta Arora	EECE	
19	Ms. Vandana Khanna	EECE	
20	Mr. Kashish Jhamb*	EECE	
21	Anshul Vats	EECE(PhD Scholar)	
22	Ram Kumar Sharma	EECE(PhD Scholar)	
23	G. S. Anand	EECE	
24	RAJESH YADAV.	ECE	

Session: IV
Date: Monday, 04 July, 2016
Time: 3:45-5:00
Speaker: Rahul Sen, Information Architect, BigData Analytics, IBM

Sr. No.	Name	Dept.	Sign
1	Prof. Swaran Ahuja	EECE	
2	Dr. Anjali Garg	EECE	
3	Dr. Mayank Srivastva	EECE	
4	Dr. Neeraj Shukla	EECE	
5	Dr. Nitin Malik	EECE	
6	Dr. Rekha Vig	EECE	
7	Dr. Sharda Vashisth	EECE	
8	Ms. Amanpreet Kaur	EECE	
9	Charu Rana	EECE	
10	Ms. Kusum Dangi	EECE	
11	Ms. Mona Agarwal	EECE	
12	Ms. Naresh Kumari	EECE	
13	Mr. Pankaj Rakheja	EECE	
14	Mr. Pavan Khetrapal	EECE	
15	Ms.Pooja Sabherwal	EECE	
16	Ms. Rakhi Nangia	EECE	
17	Mr. Saurabh Sachdeva	EECE	
18	Ms. Shaveta Arora	EECE	
19	Ms. Vandana Khanna	EECE	
20	Mr. Kashish Jhamb*	EECE	
21	Anshul Vats	EECE(PhD Scholar)	
22	Ram Kumar Sharma	EECE(PhD Scholar)	

Session: I
Date: Tuesday, 05 July, 2016
Time: 9:00-11:00
Speaker: Rahul Sen, Information Architect, BigData Analytics, IBM

Sr. No.	Name	Dept.	Sign
1	Prof. Swaran Ahuja	EECE	
2	Dr. Anjali Garg	EECE	
3	Dr. Mayank Srivastva	EECE	
4	Dr. Neeraj Shukla	EECE	
5	Dr. Nitin Malik	EECE	On leave
6	Dr. Rekha Vig	EECE	
7	Dr. Sharda Vashisth	EECE	
8	Ms. Amanpreet Kaur	EECE	
9	Charu Rana	EECE	On leave
10	Ms. Kusum Dangi	EECE	
11	Ms. Mona Agarwal	EECE	
12	Ms. Naresh Kumari	EECE	
13	Mr. Pankaj Rakheja	EECE	
14	Mr. Pavan Khetrapal	EECE	
15	Ms.Pooja Sabherwal	EECE	
16	Ms. Rakhi Nangia	EECE	
17	Mr. Saurabh Sachdeva	EECE	
18	Ms. Shaveta Arora	EECE	
19	Ms. Vandana Khanna	EECE	
20	Mr. Kashish Jhamb*	EECE	
21	Anshul Vats	EECE(PhD Scholar)	
22	Ram Kumar Sharma	EECE(PhD Scholar)	
23	G. S. Anand	EECE	
24	DIVYA JAIN	CSE	

Session: II
Date: Tuesday, 05 July, 2016
Time: 11:15-1:15
Speaker: Rahul Sen, Information Architect, BigData Analytics, IBM

Sr. No.	Name	Dept.	Sign
1	Prof. Swaran Ahuja	EECE	
2	Dr. Anjali Garg	EECE	
3	Dr. Mayank Srivastva	EECE	
4	Dr. Neeraj Shukla	EECE	
5	Dr. Nitin Malik	EECE	On leave
6	Dr. Rekha Vig	EECE	
7	Dr. Sharda Vashisth	EECE	
8	Ms. Amanpreet Kaur	EECE	
9	Charu Rana	EECE	On leave
10	Ms. Kusum Dangi	EECE	
11	Ms. Mona Agarwal	EECE	
12	Ms. Naresh Kumari	EECE	
13	Mr. Pankaj Rakheja	EECE	
14	Mr. Pavan Khetrapal	EECE	
15	Ms.Pooja Sabherwal	EECE	
16	Ms. Rakhi Nangia	EECE	
17	Mr. Saurabh Sachdeva	EECE	
18	Ms. Shaveta Arora	EECE	
19	Ms. Vandana Khanna	EECE	
20	Mr. Kashish Jhamb*	EECE	
21	Anshul Vats	EECE(PhD Scholar)	
22	Ram Kumar Sharma	EECE(PhD Scholar)	
23	DIVYA JAIN	CSE	
24	G. S Anand.	EECE	

Session: III
Date: Tuesday, 05 July, 2016
Time: 2:00-3:30
Speaker: Rahul Sen, Information Architect, BigData Analytics, IBM

Sr. No.	Name	Dept.	Sign
1	Prof. Swaran Ahuja	EECE	
2	Dr. Anjali Garg	EECE	
3	Dr. Mayank Srivastva	EECE	
4	Dr. Neeraj Shukla	EECE	
5	Dr. Nitin Malik	EECE	
6	Dr. Rekha Vig	EECE	
7	Dr. Sharda Vashisth	EECE	
8	Ms. Amanpreet Kaur	EECE	
9	Charu Rana	EECE	
10	Ms. Kusum Dangi	EECE	
11	Ms. Mona Agarwal	EECE	
12	Ms. Naresh Kumari	EECE	
13	Mr. Pankaj Rakheja	EECE	
14	Mr. Pavan Khetrapal	EECE	
15	Ms.Pooja Sabherwal	EECE	
16	Ms. Rakhi Nangia	EECE	
17	Mr. Saurabh Sachdeva	EECE	
18	Ms. Shaveta Arora	EECE	
19	Ms. Vandana Khanna	EECE	
20	Mr. Kashish Jhamb*	EECE	
21	Anshul Vats	EECE(PhD Scholar)	
22	Ram Kumar Sharma	EECE(PhD Scholar)	
23	G S Anand	EECE	
24	DIVYA JAIN	CSE	

Session: IV
Date: Tuesday, 05 July, 2016
Time: 3:45-5:00
Speaker: Rahul Sen, Information Architect, BigData Analytics, IBM

Sr. No.	Name	Dept.	Sign
1	Prof. Swaran Ahuja	EECE	
2	Dr. Anjali Garg	EECE	
3	Dr. Mayank Srivastva	EECE	
4	Dr. Neeraj Shukla	EECE	
5	Dr. Nitin Malik	EECE	
6	Dr. Rekha Vig	EECE	
7	Dr. Sharda Vashisth	EECE	
8	Ms. Amanpreet Kaur	EECE	
9	Charu Rana	EECE	
10	Ms. Kusum Dangi	EECE	
11	Ms. Mona Agarwal	EECE	
12	Ms. Naresh Kumari	EECE	
13	Mr. Pankaj Rakheja	EECE	
14	Mr. Pavan Khetrapal	EECE	
15	Ms.Pooja Sabherwal	EECE	
16	Ms. Rakhi Nangia	EECE	
17	Mr. Saurabh Sachdeva	EECE	
18	Ms. Shaveta Arora	EECE	
19	Ms. Vandana Khanna	EECE	
20	Mr. Kashish Jhamb*	EECE	
21	Anshul Vats	EECE(PhD Scholar)	
22	Ram Kumar Sharma	EECE(PhD Scholar)	
23	DIVYA JAIN	CSE	

Session: I
Date: Thursday, 07July, 2016
Time: 9:00-11:00
Speaker: Rahul Sen, Information Architect, BigData Analytics, IBM

Sr. No.	Name	Dept.	Sign
1	Prof. Swaran Ahuja	EECE	
2	Dr. Anjali Garg	EECE	
3	Dr. Mayank Srivastva	EECE	
4	Dr. Neeraj Shukla	EECE	
5	Dr. Nitin Malik	EECE	
6	Dr. Rekha Vig	EECE	
7	Dr. Sharda Vashisth	EECE	
8	Ms. Amanpreet Kaur	EECE	
9	Charu Rana	EECE	
10	Ms. Kusum Dangi	EECE	
11	Ms. Mona Agarwal	EECE	
12	Ms. Naresh Kumari	EECE	
13	Mr. Pankaj Rakheja	EECE	
14	Mr. Pavan Khetrapal	EECE	
15	Ms.Pooja Sabherwal	EECE	
16	Ms. Rakhi Nangia	EECE	
17	Mr. Saurabh Sachdeva	EECE	
18	Ms. Shaveta Arora	EECE	
19	Ms. Vandana Khanna	EECE	
20	Mr. Kashish Jhamb*	EECE	
21	Anshul Vats	EECE(PhD Scholar)	
22	Ram Kumar Sharma	EECE(PhD Scholar)	
23	G. S. Anand	EECE	
24	DIVYA JAIN	CSE	

Session: III
Date: Thursday, 07 July, 2016
Time: 2:00-3:30
Speaker: Rahul Sen, Information Architect, BigData Analytics, IBM

Sr. No.	Name	Dept.	Sign
1	Prof. Swaran Ahuja	EECE	
2	Dr. Anjali Garg	EECE	
3	Dr. Mayank Srivastva	EECE	
4	Dr. Neeraj Shukla	EECE	
5	Dr. Nitin Malik	EECE	
6	Dr. Rekha Vig	EECE	
7	Dr. Sharda Vashisth	EECE	
8	Ms. Amanpreet Kaur	EECE	
9	Charu Rana	EECE	
10	Ms. Kusum Dangi	EECE	
11	Ms. Mona Agarwal	EECE	
12	Ms. Naresh Kumari	EECE	
13	Mr. Pankaj Rakheja	EECE	
14	Mr. Pavan Khetrapal	EECE	
15	Ms.Pooja Sabherwal	EECE	
16	Ms. Rakhi Nangia	EECE	
17	Mr. Saurabh Sachdeva	EECE	
18	Ms. Shaveta Arora	EECE	
19	Ms. Vandana Khanna	EECE	
20	Mr. Kashish Jhamb*	EECE	
21	Anshul Vats	EECE(PhD Scholar)	
22	Ram Kumar Sharma	EECE(PhD Scholar)	
23	DIVYA JAIN	CSE	
24	G S Anand	EECE	

Session: I
Date: Friday, 08July, 2016
Time: 9:00-11:00
Speaker: Rahul Sen, Information Architect, BigData Analytics, IBM

Sr. No.	Name	Dept.	Sign
1	Prof. Swaran Ahuja	EECE	
2	Dr. Anjali Garg	EECE	
3	Dr. Mayank Srivastva	EECE	
4	Dr. Neeraj Shukla	EECE	
5	Dr. Nitin Malik	EECE	
6	Dr. Rekha Vig	EECE	
7	Dr. Sharda Vashisth	EECE	
8	Ms. Amanpreet Kaur	EECE	On leave
9	Charu Rana	EECE	
10	Ms. Kusum Dangi	EECE	
11	Ms. Mona Agarwal	EECE	
12	Ms. Naresh Kumari	EECE	
13	Mr. Pankaj Rakheja	EECE	
14	Mr. Pavan Khetrapal	EECE	
15	Ms.Pooja Sabherwal	EECE	
16	Ms. Rakhi Nangia	EECE	
17	Mr. Saurabh Sachdeva	EECE	
18	Ms. Shaveta Arora	EECE	
19	Ms. Vandana Khanna	EECE	
20	Mr. Kashish Jhamb*	EECE	
21	Anshul Vats	EECE(PhD Scholar)	
22	Ram Kumar Sharma	EECE(PhD Scholar)	
23	G. S. Anand	EECE	
24	DIVYA JAIN	CSE	

Session: IV
Date: Friday, 08 July, 2016
Time: 3:45-5:00
Speaker: Rahul Sen, Information Architect, BigData Analytics, IBM

Sr. No.	Name	Dept.	Sign
1	Prof. Swaran Ahuja	EECE	
2	Dr. Anjali Garg	EECE	
3	Dr. Mayank Srivastva	EECE	
4	Dr. Neeraj Shukla	EECE	
5	Dr. Nitin Malik	EECE	
6	Dr. Rekha Vig	EECE	
7	Dr. Sharda Vashisth	EECE	
8	Ms. Amanpreet Kaur	EECE	
9	Charu Rana	EECE	
10	Ms. Kusum Dangi	EECE	
11	Ms. Mona Agarwal	EECE	
12	Ms. Naresh Kumari	EECE	
13	Mr. Pankaj Rakheja	EECE	
14	Mr. Pavan Khetrapal	EECE	
15	Ms.Pooja Sabherwal	EECE	
16	Ms. Rakhi Nangia	EECE	
17	Mr. Saurabh Sachdeva	EECE	
18	Ms. Shaveta Arora	EECE	
19	Ms. Vandana Khanna	EECE	
20	Mr. Kashish Jhamb*	EECE	
21	Anshul Vats	EECE(PhD Scholar)	
22	Ram Kumar Sharma	EECE(PhD Scholar)	
23	DIVYA JAIN	CSE	
24	G S Anand	EECE	

Exam Session

Session: III
Date: Friday, 08 July, 2016
Time: 2:00-3:30
Speaker: Rahul Sen, Information Architect, BigData Analytics, IBM

Sr. No.	Name	Dept.	Sign
1	Prof. Swaran Ahuja	EECE	
2	Dr. Anjali Garg	EECE	
3	Dr. Mayank Srivastva	EECE	
4	Dr. Neeraj Shukla	EECE	
5	Dr. Nitin Malik	EECE	
6	Dr. Rekha Vig	EECE	
7	Dr. Sharda Vashisth	EECE	
8	Ms. Amanpreet Kaur	EECE	
9	Charu Rana	EECE	
10	Ms. Kusum Dangi	EECE	
11	Ms. Mona Agarwal	EECE	
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13	Mr. Pankaj Rakheja	EECE	
14	Mr. Pavan Khetrapal	EECE	
15	Ms.Pooja Sabherwal	EECE	
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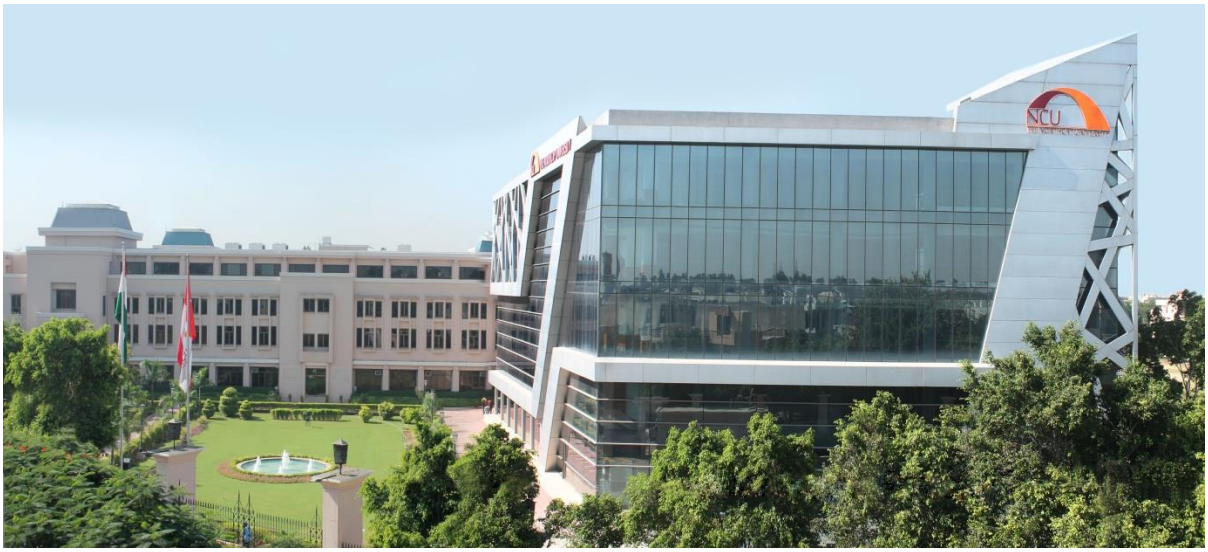
17	Mr. Saurabh Sachdeva	EECE	
18	Ms. Shaveta Arora	EECE	
19	Ms. Vandana Khanna	EECE	
20	Mr. Kashish Jhamb*	EECE	
21	Anshul Vats	EECE(PhD Scholar)	
22	Ram Kumar Sharma	EECE(PhD Scholar)	
23	DIVYA JAIN	CSE	
24	G. S. Arora	EECE	

FACULTY DEVELOPMENT PROGRAM

SUMMER FDP REPORT

(July 2016)



05 to 12 July 2016

INTRODUCTION

Faculty Development Programmes (FDP) is designed to upgrade and rejuvenate faculty in their respective disciplines delivered by experts through a variety of methods and programs. The main objective is to train and develop faculty members so that they can act as resource persons in their field of work. FDPs aims at equipping teachers with skills and knowledge that are essential for inculcating values in students and guiding and monitoring their progress As per ongoing practice at ITM University, FDP are conducted in the form of a formal, ongoing efforts of organizations to improve the performance and self-fulfilment of their employees discipline through a series of lectures, case study, audio visual trainings, online, interactions, workshops, invited talks by eminent subject experts.

In recent years, training and development has emerged as a formal business function, an integral element of strategy, and a recognized profession with distinct theories and methodologies. To ensure ongoing progress and "continual learning", FDPs are organized to promote employee growth. Such development programs are very vital in any company or organization that aims at progressing. It puts emphasis on broader skills, which are applicable in a wide range of situations and aims to expand the knowledge base of all employees. Both employer and employees as a whole, benefit from these programs. Providing the necessary training creates an overall knowledgeable staff with employees who can take over for one another as needed, work on teams or work independently without constant help and supervision from others. An employee who receives the necessary training is better able to perform her job. She becomes more aware of safety practices and proper procedures for basic tasks. The training may also build the employee's confidence because she has a stronger understanding of the industry and the responsibilities of her job. This confidence may push her to perform even better and think of new ideas that help her excel. Continuous training also keeps your employees on the cutting edge of industry developments. Employees who are competent and on top of changing industry standards help your company hold a position as a leader and strong competitor within the industry.

1. Untrained Employees = Unhappy Employees. Employees who feel inadequate, underachieving, or unsupported are unhappy. They aren't satisfied in their work, which will cause them to underperform, make mistakes, and not care about their work product. That costs the business in lost time and money.

2. Untrained Workers Have a Low Production Value. The quality of their work is lower and of less value. The quality in performance is lower than it could (or should) be.

3. Untrained Workers Are Inefficient. More time (and therefore money) and effort is spent when employees aren't fully or properly trained to perform their tasks or to fulfil their responsibilities. It takes them longer to do the work.

4. Lost Time/Money Due to Mistakes. When an untrained worker makes a mistake, the time and materials used are lost. The work then has to be done again. Or worse, the inadequate product was delivered to the client.

5. An Increase in Miscellaneous Expenses. These are more difficult to track or attribute to untrained workers, but they are there. Creating a CAD drawing incorrectly means reprinting the file. That means it takes more time to fix the mistake, more materials cost in paper and ink, and more time rechecking the work. If it were done correctly the first time, these costs wouldn't be there.

In fact, the quality of employees and the continual improvement of their skills and productivity through training are now widely recognized as vital factors in ensuring the long-term success and profitability of small businesses. "Create a corporate culture that supports continual learning," counselled Charlene Marmer Solomon in *Workforce.* "Employees today must have access to continual training of all types just to keep up…. If you don't actively stride against the momentum of skills deficiency, you lose ground. If your workers stand still, your firm will lose the competency race."

For the most part, the terms "training" and "development" are used together to describe the overall improvement and education of an organization's employees. However, while closely related, there are important differences between the terms that center around the scope of the application. In general, training programs have very specific and quantifiable goals, like operating a particular piece of machinery, understanding a specific process, or performing certain procedures with great precision. On the other hand, developmental programs concentrate on broader skills that are applicable to a wider variety of situations, such as decision making, leadership skills, and goal setting.

SCHOOL OF MANAGEMENT

SUMMARY OF FDP LECTURES HELD DURING JULY 2016

	SCHOOL OF MANAGEMENT
	Duration of FDP - 05 to 12 July 2016
	ESSENTIALS OF BUSINESS INTELLIGENCE IN ASSOCIATION WITH IBM
1.	Session by Dr. Vipin Khurana. Discussion on basic statistics and its applications.
2.	Introduction to R software and basic data manipulation and summarization.
3.	Discussion on multivariate techniques like factor analysis and cluster analysis and its implementation on R.
4.	Discussion on predictive modelling techniques like linear and logistic regression and hands on practice on R.
5.	Session by Mr. Pratyush Praveen. Introduction to business intelligence and IBM Cognos.
6.	Overview of IBM Cognos BI, Indentifying common data structures and creating a baseline project.
7.	Introduction to reporting application, create list reports, crosstab reports etc.
8.	Session on presenting data graphically through IBM Cognos.
9.	Session by Mr. Pratyush Praveen. More on graphical representation of data through IBM Cognos, Customize reports using conditional formatting.
10.	Introduction to IBM Cognos Insight, Import data, restructure data, create visualizations.
11.	Construct a workspace, format and enter data.
12.	Session by Mr. Dinesh Dhiman.
13.	Drill through from one report to another in IBM Cognos BI.
14.	Create a report using relational data.
15.	Quick Revision and hands on practice.
16.	Session by Mr. Dinesh Dhiman. Some Exercise for hands on practice.
17.	Introduction to IBM Cognos BI Administration.

FACULTY DEVELOPMENT PROGRAM
ON
ESSENTIALS OF BUSINESS INTELLIGENCE IN ASSOCIATION WITH IBM
JULY 2016

OBJECTIVES

The five days faculty development program was intended to familiarize faculty members to different analytical tools like R and IBM COGNOS. The main objective was to inculcate in faculty members, the knowledge of business intelligence, analytics and its scope in industry with hands on practice on different tools which would help them teach these courses to students in future.

OUTCOMES

The faculty members were benefitted by these industry oriented interactive sessions with the experienced speakers. The FDP helped faculty to understand the importance and demand of business intelligence and analytics in the industry and how it can be a very good job profile for a management student. The faculty got hands on training on R software and IBM COGNOS and COGNOS INSIGHT.

DAY WISE SCHEDULE FOR FACULTY DEVELOPMENT PROGRAM

DAY 1 **VENUE: N401**

S. No.	Session Details	Timings
1.	Session by Dr. Vipin Khurana. Discussion on basic statistics and its applications.	10 AM-11.15 AM
2.	Tea Break	11.15-11.30 AM
3.	Introduction to R software and basic data manipulation and summarization.	11.30 AM-1.00 PM
4.	Lunch Break	1.00 PM-2.00 PM
5.	Discussion on multivariate techniques like factor analysis and cluster analysis and its implementation on R.	2.00 PM -3.00 PM
6.	Tea Break	3.00 PM-3.15 PM
7.	Discussion on predictive modelling techniques like linear and logistic regression and hands on practice on R.	3.15 PM-4.30 PM

DAY 2 **VENUE: N401**

S. No.	Session Details	Timings
1.	Session by Mr. Pratyush Praveen. Introduction to business intelligence and IBM Cognos.	10 AM -11.15 AM
2.	Tea Break	11.15 -11.30 AM
3.	Overview of IBM Cognos BI, Indentifying common data structures and creating a baseline project.	11.30 AM-1.00 PM
4.	Lunch Break	1.00 PM – 2.00 PM
5.	Introduction to reporting application, create list reports, crosstab reports etc.	2.00 PM – 3.00 PM
6.	Tea Break	3.00 PM – 3.15 PM
7.	Session on presenting data graphically through IBM Cognos.	3.15 PM – 4.30 PM

DAY 3 **VENUE: N401**

S. No.	Session Details	Timings
1.	Session by Mr. Pratyush Praveen. More on graphical representation of data through IBM Cognos, Customize reports using conditional formatting.	10 AM -11.15 AM
2.	Tea Break	11.15 -11.30 AM
3.	Introduction to IBM Cognos Insight, Import data, restructure data, create visualizations.	11.30 AM-1.00 PM
4.	Lunch Break	1.00 PM – 2.00 PM
5.	Construct a workspace, format and enter data.	2.00 PM – 3.00 PM
6.	Tea Break	3.00 PM – 3.15 PM
7.	Quick Revision to above topics	3.15 PM – 4.30 PM

DAY 4 **VENUE: N401**

S. No.	Session Details	Timings
1.	Session by Mr. Dinesh Dhiman.	10 AM -11.15 AM
2.	Tea Break	11.15 -11.30 AM
3.	Drill through from one report to another in IBM Cognos BI.	11.30 AM-1.00 PM
4.	Lunch Break	1.00 PM – 2.00 PM
5.	Create a report using relational data.	2.00 PM – 3.00 PM
6.	Tea Break	3.00 PM – 3.15 PM
7.	Quick Revision and hands on practice.	3.15 PM – 4.30 PM

DAY 5 **VENUE: N401**

S. No.	Session Details	Timings
1.	Session by Mr. Dinesh Dhiman. Some Exercise for hands on practice.	10 AM -11.15 AM
2.	Tea Break	11.15 -11.30 AM
3.	Introduction to IBM Cognos BI Administration.	11.30 AM -1.30 PM

Day 1

The FDP was inaugurated by the Head, School of Management, Dr. Ruchi Nayyar by a brief talk on the relevance of the topic and how it would be beneficial for the attendees. The resource person for first day was Dr. Vipin Khurana from IBS, Gurgaon. In his session, he interacted with the faculty and started the technical session by discussing some basics of descriptive and predictive Statistics. He introduced R software to the faculty members and made them do some hands on practice. Post Lunch, he demonstrated the implementation of multivariate techniques and predictive modelling techniques on R software.

Day 2

Day 2 began with the session by Mr. Pratyush Praveen. He started by briefing about the data mining, machine learning and business intelligence and its relevance in business world. Mr. Pratyush then introduced the IBM Cognos BI. He talked about Cognos business intelligence capabilities, BI enterprise components, BI architecture and BI security. Post lunch, he introduced common data structures; examine the role of an IBM Metadata model, how to create baseline project, how to create list, crosstab reports, and how to present data graphically.

Day 3

On day 3, Mr. Pratyush began by demonstrating different chart types like area chart, bar chart, line chart, pie chart etc.. Post lunch, adding content using widgets, examine widget types, modify widget behaviour, formatting and entering the data was explained.

Day 4

Day 4 began with the session by Mr. Dinesh Dhiman where he demonstrated how to create a report using relational data, creation of crosstab nodes and crosstab node members, combining objects in a report.

Day 5

On day 5, Mr. Dinesh explained how to set up drill-through access from a report and specify values passed to target parameters. At last, he gave introduction to IBM Cognos BI administration where administration workflow, IBM Cognos administration portal and IBM Cognos configuration were demonstrated.

SPEAKER'S PROFILE

DR. VIPIN KHURANA

Dr. Vipin Khurana, MSc (Mathematics), MBA (IIT Delhi), PhD (Mathematics); is working as Associate Professor and Area Chair (Quantitative Techniques & Analytics) at IBS Gurgaon. Dr. Khurana has a proven background in Academics, Research and Administrative positions of more than 17 years, where he has been taking teaching assignments for Graduates, Postgraduate & PhD levels in Statistics, Business Research Techniques & Analytics courses. He has conducted Various FDPs/MDPs/Sessions/Consulting in Data Analytics, Business Research Techniques, SPSS, Advanced Excel, R Programming & Business Analytics at various Universities & Institutes including DMS IIT Delhi, Delhi University South Campus, Planning Commission Govt of India, St Bede's College Shimla, Hindu College, Jesus & Marry College Delhi University, Lucknow University, IBS Gurgaon etc. Dr. Khurana has published over 25 Research Papers in various National/International Journals and Conferences. He is associated with IBS since last more than 9 years. **MR. PRATYUSH PARVEEN**

Pratyush is Practice Manager, in Lab Services for Predictive and Business Intelligence (P&BI) at IBM India Pvt. Ltd. He leads the elite team of experts on IBM Cognos BI and SPSS. He is one of the experts in IBM Cognos Mobile implementation. He has conducted multiple trainings on Cognos BI. He has conducted a virtual session on IBM Cognos Mobile, which was well received and is available on TechGig. He has over 14 years of consulting experience, and has working across geographies and industries. He has worked for clients including American Express, Australand, BILT, Deloitte Australia, FINO, Infosys, Ipswich City Council, Shree Cement, State Bank of India, and UltraTech Cement.

MR. DINESH K. DHIMAN

Dinesh is BI Architect, in Lab Services for Predictive and Business Intelligence (P&BI) at IBM India Pvt. Ltd. Being an expert on IBM Cognos BI, he is member of the elite team of experts in IBM Lab Services. He has conducted multiple professional training. He has over 5 years of experience, and has worked across geographies and industries. He has worked for clients including General Motor Acceptance Corporation, Serco UK Plc, various Pharmaceutical companies such as Novartis, Baxter, Astellas, Otsuka, Santen and UCB.

PHOTO GALLERY

ATTENDANCE SHEET

SCHOOL OF MANAGEMENT
FACULTY DEVELOPMENT PROGRAM
ON
ESSENTIALS OF BUSINESS INTELLIGENCE IN ASSOCIATION WITH IBM
JULY 5th –JULY 12th 2016

ATTENDANCE SHEET

Faculty	05.07.2016	07.07.2016	08.07.2016	11.07.2016	12.07.2016
Dr. Ruchi Nayyar	✓	✓	✓		✓
Dr. Sushmita Waraich	✓	✓	✓	✓	✓
Dr. Nirupma Gupta					
Dr. Mansi Khurana	✓	✓	✓	✓	✓
Dr. Alpana Agarwal	✓	✓	✓	✓	✓
Dr. Saumya Dixit	✓	✓	✓	✓	
Dr. Vibha Dua Satija		✓	✓	✓	✓
Dr. Md. Hussain Kunroo	✓	✓	✓		✓
Ms. Jaya Ahuja	✓	✓	✓	✓	✓
Ms. Jiveta Chaudhary		✓	✓	✓	✓
Ms. Parul Munjal		✓	✓	✓	

Ruchi Nayyar

Dr. Ruchi Nayyar
Head, School of Management.

2017-2018

Report on

Faculty Development Programme

On

Machine Learning and Deep Learning

By

Department of CSE and IT

THE NORTHCAP UNIVERSITY, GURGAON

From

June 1, 2018 to June 7, 2018

- **OBJECTIVES:**
  Machine Learning and Deep Learning are sub-areas of artificial intelligence; it enables computers to get into a mode of self-learning without being explicitly programmed. These are leading technologies nowadays and constitute one of the most promising industries impacting almost all verticals of the world. Thus the fast growing pace of IT industry cannot be overlooked.

  As a part of our endeavour to deliver only the best-in-class industry oriented and future ready teaching for the students we need to train our students in this field. In order to train the students, the faculty should have appropriate knowledge, exposure and hands on experience on the subject.

- **OUTCOMES**
  This FDP has been successful in inculcating an in-depth knowledge on all aspects of Machine Learning and Deep Learning. It provided hands on experience on the implementation of Machine Learning and Deep Learning algorithms. This FDP has led the faculty to gain ideas on to the various applications of Machine Learning and Deep Learning algorithms and also the possibility of various projects in the field.

- **VENUE:**

  Room No: 142

The expert of the session-I was **Ms. Manisha Narula,**
Soft Skill Trainer (Certified by SQA & NABET). The session started with Emotional Intelligence. She concentrated on types of emotions, positive thinking and stress management. The session was completed by conducting a psychometric test.

The session-II on June 1, 2018 was started on Problem solving strategies leveraging machine learning techniques by **Mr. Ritwik Chaudhuri,** Data Scientist, IBM Research Laboratory, New Delhi**.** He covered topics on Exploratory Data Analysis; Machine Learning Techniques-Linear Regression, Logistic Regression, Lasso Regressio; Dimension Reduction Techniques and Machine Learning Techniques for Classification.

A departmental level session entitled "Our thought process, enhancing mind power, supreme power and meditation, stress loops in adults" was conducted by Brahma Kumaris at 10:30 AM on June 2, 2018 in Thought lab.

From June 4, 2018 to June 7, 2018, the FDP sessions were conducted by Mr. Ravi, Brain Mentor Pvt. Ltd on "Machine and Deep Learning with Python". He talked about fundamental of python, Introduction to Data Analysis, Installing Anaconda and Jupyter, Understanding Numpy & Pandas and Data Visualization with practical implementation on June 4, 2018.

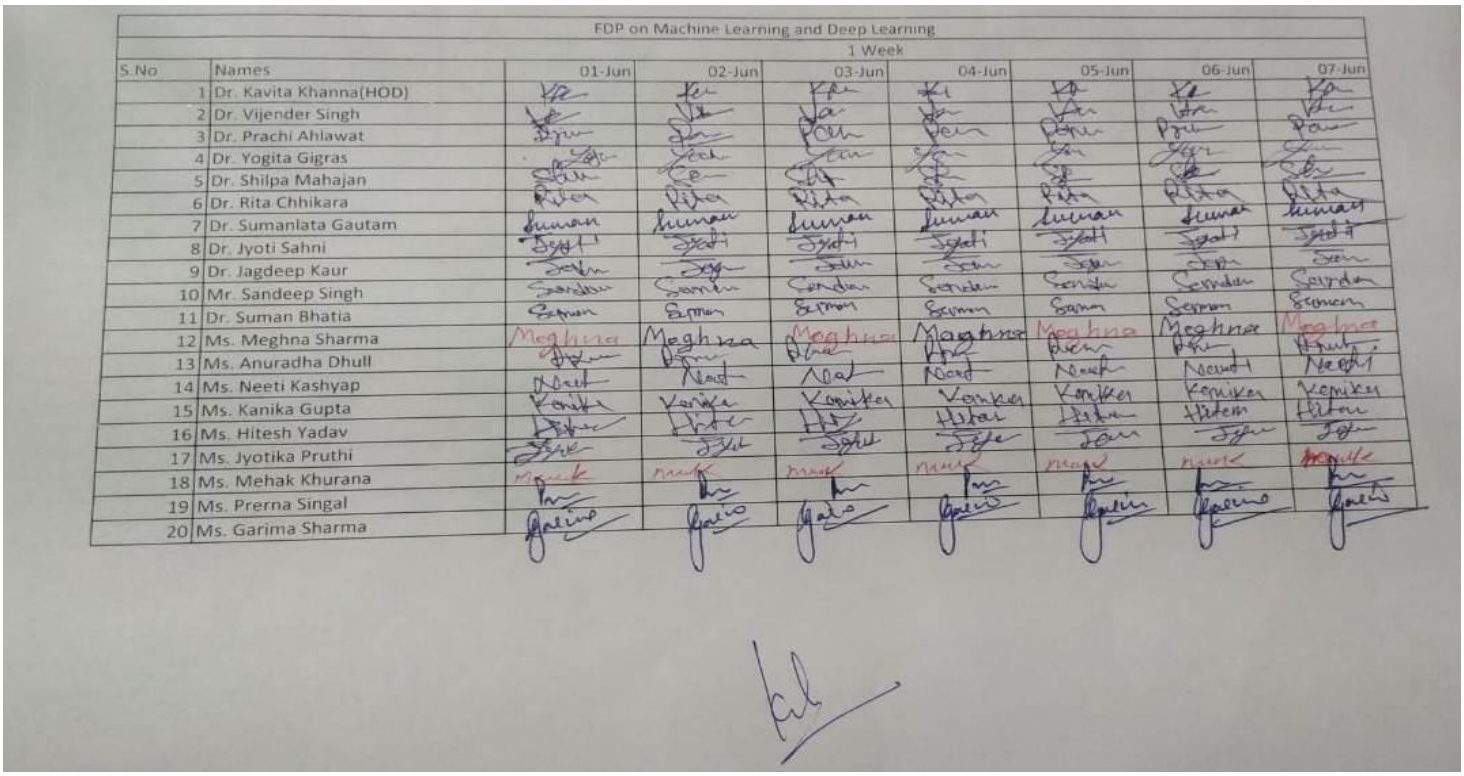
He covered introduction to Machine Learning, Types of Machine Learning, Implementing machine learning algorithms with python, Natural Language Processing, Tokenizer, Lemmatizer, Stemming, Removing Stopwords, Text Classification, Image Processing, Face Detection and Recognition, Artificial Neural Networks and Perceptron's on June 5, 2018 and June 6, 2018.

The last session was conducted on Deep Learning implementation with Python. He includes introduction to Tensorflow and Keras, Tensorflow basics, Graphs and variables and using Tensorflow to build neural networks in his session.

List of Participants

1	Dr. Kavita Khanna(HOD)
2	Dr. Vijender Singh
3	Dr. Prachi Ahlawat
4	Dr. Yogita Gigras
5	Dr. Shilpa Mahajan
6	Dr. Rita Chhikara
7	Dr. Sumanlata Gautam
8	Dr. Jyoti Sahni
9	Dr. Jagdeep Kaur
10	Mr. Sandeep Singh
11	Dr. Suman Bhatia
12	Ms. Meghna Sharma
13	Ms. Anuradha Dhull
14	Ms. Neeti Kashyap
15	Ms. Kanika Gupta
16	Ms. Hitesh Yadav
17	Ms. Jyotika Pruthi
18	Ms. Mehak Khurana
19	Ms. Prerna Singal
20	Ms. Garima Sharma

Attendance Sheet



FDP on Machine Learning and Deep Learning

1 Week

S.No	Names	01-Jun	02-Jun	03-Jun	04-Jun	05-Jun	06-Jun	07-Jun
1	Dr. Kavita Khanna(HOD)							
2	Dr. Vijender Singh							
3	Dr. Prachi Ahlawat							
4	Dr. Yogita Gigras							
5	Dr. Shilpa Mahajan							
6	Dr. Rita Chhikara							
7	Dr. Sumanlata Gautam							
8	Dr. Jyoti Sahni							
9	Dr. Jagdeep Kaur							
10	Mr. Sandeep Singh							
11	Dr. Suman Bhatia							
12	Ms. Meghna Sharma							
13	Ms. Anuradha Dhull							
14	Ms. Neeti Kashyap							
15	Ms. Kanika Gupta							
16	Ms. Hitesh Yadav							
17	Ms. Jyotika Pruthi							
18	Ms. Mehak Khurana							
19	Ms. Prerna Singal							
20	Ms. Garima Sharma							

Department of EECE
Technical Staff Development Program
28th – 29th May, 2018

Date/Venue	Subject of Training	Time	Name of Trainer
May 28, 2018 Room no. 211	Microwave & Radar Engineering	9 AM – 12 PM	**Ms Kusum Grewal** Mr Harish Chandna
	Antenna and Wave Propagation	2 PM – 5 PM	**Ms Charu Rana** Mr Harish Chandna
May 29, 2018 Room no. 207	Control Systems	9 AM – 12 PM	**Dr Anjali Garg** Mr Tulsi Sharma
	Instrumentation and Measurement	2 PM – 5 PM	**Ms Naresh Kumari** Mr Tulsi Sharma

Contents:

- Brief overview of the lab
- Benefits and scope of the lab
- Theoretical background of each experiment
- Experimental set up
- Hands-on Practice session of all experiments
- Discussions

Faculty Coordinator: Dr. Shaveta Arora

Technical Coordinator: Mr. Nikhilesh Kumar

Dr. Sharda Vashisth
HOD, EECE

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Department of EECE
Technical Staff Development Program
28th – 29th May, 2018

Attendance Sheet

Date/Venue	Subject of Training	Time	Name of Trainer	Signature
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	Instrumentation and Measurement	2 PM – 5 PM	Ms Naresh Kumari Mr Tulsi Sharma	

Faculty- Co Ordinator
Anjali

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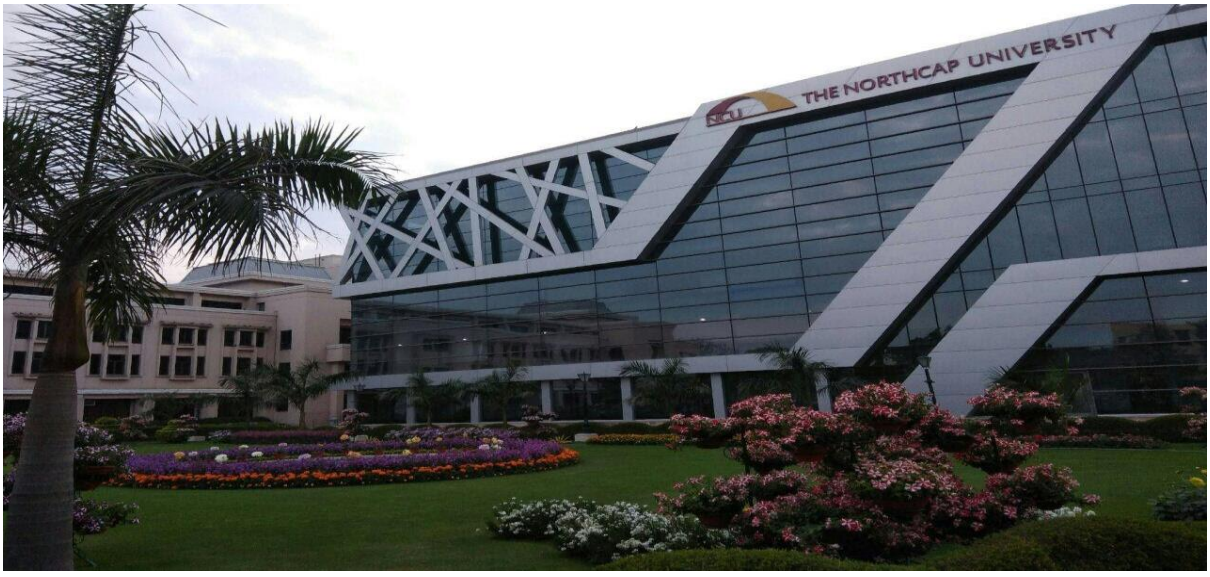
FACULTY DEVELOPMENT PROGRAM



JUNE 1st to 7th, 2018

SCHOOL OF MANAGEMENT

FDP Objectives and Outcomes

Objectives

The 6 day FDP starting from 1st June 2018 with the aim of holistic development of faculty members was organized with the following objectives:

1. To use balanced scorecard and build an index
2. To train PhD supervisors on how to guide research scholar
3. To sensitize faculty about the mentoring process
4. To develop case writing skills

Outcomes

After attending the 6 day FDP, following outcomes were attained:

1. Learnt how to use balanced scorecard approach and build an index for improving an organization's performance
2. Faculty got trained on how to guide PhD scholars
3. Understood the basics of mentoring
4. Learnt how to teach using cases as well as write cases

DAY WISE PROGRAM DETAIL

FDP on "Capacity Building Leading to Better Performance"

Day 1

Dr. Sushmita Waraich emphasized upon the importance of mentoring. She clarified the difference between role of a mentor and coach. She also Faculty also discussed the various ways in which mentoring shall be made effective in School of Management for enhancing the performance of students and discussed the importance of regular constructive feedback, mentoring action plan, increasing the involvement of parents for the same.

Day 2

Prof. Dash conducted a session on creating indexes. He began the session by making the participants aware of the indices. He further explained how discriminant analysis can be used for making strategic choices. He described different other methodologies for building index. He also explained how these will be applied to real life situations.

Day 4

Prof. Dash introduced the concept of Balanced Scorecard to the participants. He shared insights on vision, strategy, structure, processes, value management, knowledge management, risk management and information management with the help of suitable cases. He emphasised on the need for developing strategy in tune with the vision statement. He shared his own experiences of applying BSC to educational system and how Institutes can benefit from the same. He insisted on investment in intangibles that would create value by citing example of GlaxoSmithKline.

Day 5

Mr. Manoj Gopaliya, Dy. Dean Academics conducted a session on grading system. He explained the process of moderation of results to the participants and focussed on strengthening the role of course coordinator in moderation of minor, internal and premajor marks. He provided clarity on the doubts raised by faculty members regarding grading and bell curve preparation.

Prof. Prem Vrat provided insights related to H index, G index which are a measure of quality of research. Prof. Vrat emphasized upon the importance of citations which is an important indicator of relevance of research. He shared the successful approaches for PhD research completion in which the focus was on explaining what comprises research, expected outcomes of PhD research. He also clarified the role of supervisor in guiding PhD. Prof Vrat also discussed the various challenges faced by research scholars. He suggested various coping strategies such as preparing PERT chart, reviewing literature review and also motivated research scholars and faculty to do quality research and focus on publishing in good journals.

Day 6

The day started with a session by Brahmakumaris on thought process. They explained the difference between mind and brain. With numerous examples they suggested that Man's most powerful resource is thoughts. Thoughts build our consciousness and shape our attitude. Every human creation in the world is the product of thoughts. Thoughts are fertilized by knowledge. A person with a certain kind of knowledge usually creates thoughts related to that field of knowledge.
Thoughts determine the quality of our actions, which in turn have a good or bad effect on us. This again influences our thinking. So right thinking based on the right knowledge is essential for leading a happy life and meditation helps us create thoughts that lead to righteous actions, and to remain mentally strong in difficult situations. Lastly stress level test was also conducted in Thought lab.

The next session was conducted by Prof. Jay K. Mitra (ex Dean FMS, Delhi University) on case writing. Prof. Mitra He discussed various cases with the participants. He discussed the different types of cases such as inductive, illustrative, inspirational, and intervention cases. He also made the participants aware about recent developments in case writing along with providing information about Indian Case Clearig Centre for case publishing in India. He also taught ways in which cases can be used to teach various theories of motivation, organizational culture, marketing, etc. He motivated the participants to have out of box thinking for better problem solving. Prof. Mitra suggested that newspapers are a very important source for idea development for writing a case.

The FDP was coordinated by Dr. Sushmita Waraich and Dr. Saumya Dixit.

RESOURCE POOL FOR FACULTY DEVELOPMENT PROGRAM

S. No.	Name	Designation	Topic
1	Prof. Prem Vrat	Pro-Chancellor	Successful Approaches for PhD Research Completion
2	Dr. A P Dash	Dean, School of Management	Creating an index, Balance Scorecard (BAC)
3	Dr. Sushmita Waraich	HoD, School of Management	Mentoring Relationships
5	Prof. Jay K. Mitra (External Speaker)	Ex Dean, FMS Delhi University	Case writing

PHOTO GALLERY

Dr. Sushmita Waraich delivering a lecture on Mentoring Relationships

Dr. A P Dash conducting a session on building indexes

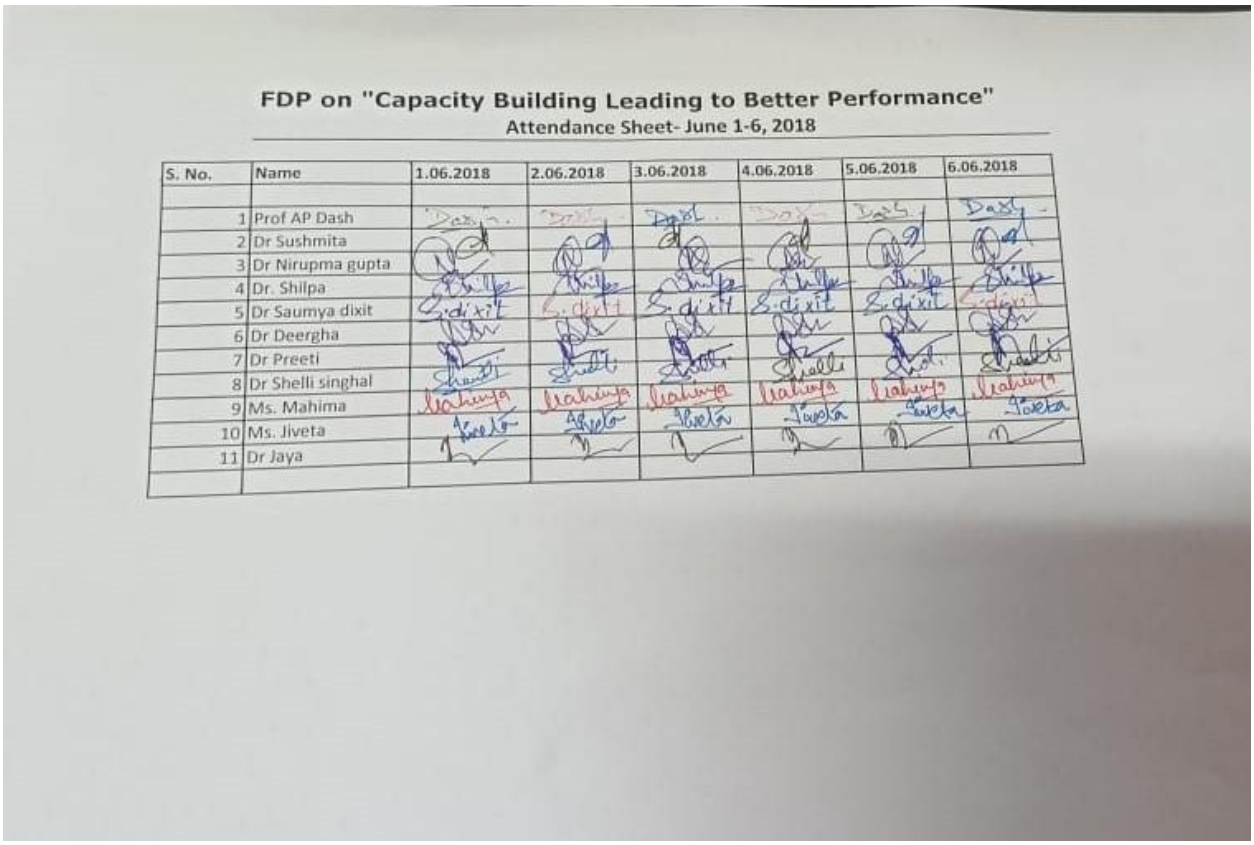
Prof. A P Dash delivering lecture on Balanced Scorecard

Mr. Manoj Gopaliya conducting session on grading system

Prof. Prem Vrat conducting a session of Approached for PhD completion

Brahmakumaris conducting a session of Thought Process

Prof. Jay K Mitra conducting a session on case writing



FDP on "Capacity Building Leading to Better Performance"

Attendance Sheet- June 1-6, 2018

S. No.	Name	1.06.2018	2.06.2018	3.06.2018	4.06.2018	5.06.2018	6.06.2018
1	Prof AP Dash						
2	Dr Sushmita						
3	Dr Nirupma gupta						
4	Dr. Shilpa						
5	Dr Saumya dixit						
6	Dr Deergha						
7	Dr Preeti						
8	Dr Shelli singhal						
9	Ms. Mahima						
10	Ms. Jiveta						
11	Dr Jaya						

Faculty Development Programme

The Department organized an FDP on skill enhancement from 1-7 June 2018. It was inaugurated by Mr Lokesh Choudhary, Departmental Coordinator, and Dr Payal Khurana, HoD, CLL, with a brief talk on the FDP layout and the programme commenced with a Webinar on 'Top 10 rules for success' by Dr APJ Abdul Kalam. Mr Lokesh discussed the importance of FDPs in the growth of the University/Department and also upgrade the individual skills of the members of the faculty.

Expert speakers such as Ms Lipika, Client Specialist & Trainer, Westlaw, gave a talk on 'Utilization of available online resource material using the online portal WestLaw'. Westlaw is an online legal research service for lawyers and legal professional. Dr Kanupriya, HoD, SOL spoke on 'Importance of sound knowledge of Constitution and Laws' and also suggested a common ground for inter-departmental projects.

Mr Rajeev Bansal, Sr Consultant, Tata Consultancy Services, delivered a lecture on 'Importance of Financial Literacy in day to day life', Ms Chanda Sidhwani, Corporate Trainer, discussed 'Importance of a team in an organization', Mr Allan Anderson, Program Manager, Chetanalya, New Delhi gave a talk on 'Inclusivity in Society', Dr Rohit Singh Lather, Associate Professor, Dept of ME, NCU, spoke on 'Renewable Energy and Sustainable Development' and highlighted the 17 sustainable development goals which every country has to achieve by 2030. Ms Lata Singh Dasila, ICF Certified Life Coach, conducted a session on 'Social Emotional Assessment vis-à-vis Community Perspective'. Dr Rekha and Mr Gunjan Vohra, Akhil Vishwa Gayatri Pariwar, conducted a session on 'Scientific aspects of Yagyopathy'. A session was conducted by the Brahma Kumaris on 'Thought Process' in the Thought Lab followed by meditation. The Dept of CEE organized a webinar on 'Interview and Interpersonal Skills' and an inspirational movie 'October Sky'. A line from the movie "I would like to believe in the unlucky one" highlights the mentality and attitude a teacher should have towards students who are weak/slow learners. [CEE2018O013]

Session on Thought Process

Session on Financial Literacy by Mr. Rajeev Bansal, Sr Consultant, TCS

Session on Social Emotional Assessment vis-à-vis Community Perspective

Department of Applied Sciences

Faculty Development Programme

An FDP was organized by the Department from 1-7June 2018 in which eminent speakers delivered lectures such as scientist Dr Sailesh Narayan Sharma, NPL, Delhi, on 'Nanomaterials for Photovoltaic Applications'; Scientist Mr Yogesh Adhana, DRDO, Delhi, on 'Introduction to Cryptography'; Ms Bhavna Bhira, Art of Living on 'Health and Happiness Program'; Dr Rekha on 'Science of Yogyopathy' and Dr Ambika Devi, Head, Dept of CSE&IT presented the 'One year strategic plan of Department of Applied Sciences'. Members of the faculty were informed about their targets, roles and responsibilities, and the Department's focus on major initiatives like teaching-learning processes, quality intake of students, curriculum and research. A session was conducted by Brahma Kumaris on 'Our Thought Process'.

Faculty Activity

Dr Bharti Arora, Dy Dean, RDIL attended 'University & College Educators Conference on Values & Spirituality for Empowering the Self' organized by Education Wing of Rajyoga Education & Research Foundation, Mount Abu, Rajasthan, from 18-22 May 2018. The conference focused on the issues and challenges in teaching the young generation in universities and colleges. Mr Manish Sisodia, Dy Chief Minister, Govt of Delhi, the Chief Guest at the inaugural session, discussed about the key issues in teaching and learning in Higher Education. The idea of the Thought Laboratory was appreciated by him and other eminent participants across India including Prof. HM Maheshwaraiah, Vice-Chancellor, Central University of Karnataka, Prof. SP Singh, Vice-Chancellor, University of Lucknow. The conference also highlighted that value education acts as a foundation for educating young minds. (APS2018CA001)

Department of Mechanical Engineering

Faculty Development Programme

The Dept of ME conducted an FDP from 1-7 June 2018 to attain in-depth understanding about pedagogy of teaching Engineering and enhancing the research capabilities of faculty members. Members of the faculty had interactions with eminent people from the industry and academia. The interactive sessions helped them to gain firsthand experience from the learned experts. It also helped the faculty understand the importance of effective teaching, student centric learning processes and how to prepare quality research proposals for various ministries in the field of science and technology. Eminent speakers delivered lectures such as Mr Rajeev Bansal, Sr Consultant, TCS, on 'Financial Literacy'; Scientist Dr Sailesh Narayan Sharma, NPL, Delhi, on 'Nanomaterials for Photovoltic Applications'; Dr Sanjeev Kumar Bakshi, Thapar University, on 'Arithmetic by using Vedic Mathematics'; Ms Chanda Sindhwani, Corporate Trainer, on 'Team Building'; Dr Arjyajyoti Goswami, Dept of ME, NCU, on 'Fabrication Methods and Applications'

NCU
THE NORTHCAP UNIVERSITY ™
(FORMERLY ITM UNIVERSITY, GURGAON)

FDP: 'Nanomaterials for Photovoltaic Applications

Attendance Sheet

(Department of Applied Sciences)

Name of Faculty	Department	Date 01-06-2018	Date 02-06-2018	Date 03-06-2018	Date 04-06-2018	Date 05-06-2018	Date 06-06-2018	Date 07-06-2018
Dr. Seema Thakran	APS	Seema Thakran	Seema Thakran	Seema Thakran	Seema Thakran	Seema Thakran	Seema Thakran	Seema Thakran
Dr. Kalika Srivastava	APS							
Dr. Hukum Singh	APS							
Dr. Pranati Purohit	APS							
Dr. Phool Singh	APS							
Dr. Ambika Devi	APS							
Dr. Dipti Vaya	APS							
Dr. Sangeet Srivastava	APS							
Dr. Sunita Sharma	APS							
Dr. Bharti Arora	APS							
Dr. Tejpal Singh Chundawat	APS							
Dr. Aditya Sharma Ghrera	APS							
Dr. Amita Bhagat	APS							
Prof. Pramila Goyal	APS							
Dr. Anshu Malhotra	APS							
Dr. Srijanani A. Prasad	APS							
Dr. Deepika Rani	APS							
Dr. Gaurav Gupta	APS							
Prof. Kehar Singh	APS							
Dr. Indira P Debnath	APS							
Ms. Kanika Gujral	APS							
Prof. Prabha Sharma	APS							

other CSE faculty. Members appreciated the work of the students which was highly motivating for them. This initiative was taken up by Dr Supriya Raheja.

Industrial Visits

- Ms Rita Chhikara visited National Informatics Centre, Electronics Niketan, NIC, MMTC Ltd, India Meteorological Department and World Wildlife Fund. [CSE2017IV001]
- Ms Garima Sharma visited DEN Networks, Okhla, Caretel Infotech Ltd, Naraina, CBSL Group and Dignitas Digital on 14 July 2017. [CSE2017IV002]
- Dr Kavita Khanna visited Nokia Solutions and Networks India Pvt Ltd and DSM Sinochem Pharmaceuticals to take a feedback of students who were doing internship and had a healthy discussion about the latest technologies they were working upon and to extend Nokia-NCU association for the long term. [CSE2017IV003]

- Dr Charan Kumari visited ASVISERLogic, Gurugram, DAN Electronics Pvt Ltd, Gurugram and Anlight Consulting, Welldone Tech Park, Gurugram on 14 July 2017. [CSE2017IV004]
- Ms Geetika visited Mando for internship feedback and had a discussion with Ms Shweta Goel on 13 July 2017. [CSE2017IV005]

- Ms Jyotika Pruthi and Ms Richa Chabbra visited Airtel and Incuspaze on 23 June 2017 and met Mr Yashraj Bhardwaj and discussed about the progress of the students and the website that was developed by the students for the Company. The work of the students was well appreciated. [CSE2017IV006].

Faculty Activities

- Ms Jagdeep Kaur received a Certificate of Recognition for Outstanding Service in the Technical Programme Committee of Springer's International Conference on Information, Communication and Computing Technology (ICICCT-2017) held at JIMS New Delhi.
- Ms Jyotika Pruthi's poem 'Letter from daughter to divorced parents' was published by the online portal 'The Uncommon Box' with an outreach of 10,000 viewers.

New Faculty Member

- Ms Priyanka Rastogi joined the Department as Assistant Professor. We welcome her to the Department.

Department of Civil and Environmental Engineering

Industrial Visits

- Mr Shubham Bansal and Mr Akx Malik visited Rajiv Chowk, Gurugram on 4 July 2017 where Gawar Construction is undertaking the NHAI project. [CEE2016V004]
- A team of faculty members visited Skyway Infra Pvt Ltd. which is constructing a 50 MLD Sewage Treatment Plant at village Dhanwapur in Gurugram. [CEE2016V005]
- Ms Purnima Bajpai and Ms Megha Kalra visited the Central Soil and Material Research Station, New Delhi, where two students Neev Bathla and Kartik of Final year CE are interning. They visited the Indira Gandhi Hospital construction project site, undertaken by L&T and PWD at Dwarka. The team also visited The Engineers India Ltd office at Bhikaji Cama Place, New Delhi. [CEE2016V006]
- Ms Purnima Bajpai and Mr Shubham Bansal visited RITES Ltd, Gurugram. They also visited the DLF Crest site located in Sector 54 and the DLF Leighton project in Sector 64 Gurugram where two students Vishwajeet and Ashish were working. The faculty also visited three sites /offices on 11 July 2017 viz., GMR Ltd, Udhan Bhawan, IGI Airport where one student, Anushree has been working; BJP Head Quarters being constructed by L&T Infrastructure, Deen Dayal Upadhyay Marg, New Delhi; Tata Housing project in CP, New Delhi where Aneesha has been working, directly associated with Mr Ciby James , ASQ Northern Head, on a paid internship. [CEE2016V007]
- Mr Akx Malik and Mr Lokesh Chaudhary visited NHAI at Udyog Vihar Gurugram; office of Millennium Engineers & Contractors, Gurugram and DLF at sector 42-43 metro station, Gurugram. Faculties met Mr Alam, Assistant Project Manager of the DLF team working at the project for diversion of drainage systems. [CEE2016V008]

Staff Development Programme

The Department of CEE organized a two day Staff Development Programme (SDP) on skill enhancement of technical staff from 13-14 July 2017. A session on Soil Testing was conducted in the Soil Mechanics lab by Mr Lokesh Choudhary, Assistant Professor. Tests such as water content determination, specific gravity, grain size distribution, compaction test etc. were discussed. Another session was organized on cement testing and its practical applications by Ms Megha Kalra wherein she

explained the type of cement and its applications. Various test procedures were explained as per the Indian Standards and tests like consistency, initial and final setting time, specific gravity and shrinkage were carried out by the staff.

Ms Purnima Bajpai conducted a training session which involved the testing of coarse aggregates. She explained some of the significant tests of aggregate like impact test, sieve analysis and abrasion test. In the Transportation Engineering Lab Mr Shubham Bansal provided a hands-on training on Bitumen Tests and explained its underlying theory. The apparatus, procedure and practical application of Penetration Test, Ductility Test and Softening Point Test were explained and tests were conducted by lab technicians on VG-40 bitumen, for practical exposure. [CEE2017O015]

Faculty Activities

- Ms Purnima Bajpai attended a one day conference on Power Transmission and Distribution (T&D) organized by the Ministry of Power in New Delhi on 12 July 2017. The session was chaired by Mr Vishal Kapoor, Director, Ministry of Power, GOI and Mr Ashok Kumar Rajput, Chief Engineer, Central Electricity Authority. The conference was an excellent platform for getting information on latest trends in the Industry and also for networking with industry experts ranging from the Ministry to the Private sector. [CEE2017CA004]
- Mr Shubham Bansal attended the 'National Roads & Highways Summit 2017' on 6 July 2017 at PHD Chamber of Commerce and Industry, New Delhi. Mr Sanjiv Nair, IAS, Director General, NECTAR, GOI enlightened the distinguished guests about the MoU signed by NHAI with ISRO and NECTAR for the use of spatial technology for monitoring and managing National Highways. The summit also resulted in networking sessions. [CEE2017CA005]
- Mr Akx Malik was enrolled as a member of Young Leaders Program to be held at Ambedkar University, Delhi [CEE2017O016]

New Faculty

Mr Diptendu Roy has joined as an Assistant Professor in the Dept. of CEE. We welcome him to the Department.

Department of Mechanical Engineering

Workshop

- Society of Automotive Engineers in association with the International Center for Automotive Technologies organized the 'Efficycle' workshop on 8 July 2017 at NCU. Coordinators of the workshop were Dr Ashwini Sharma and Mr Gagan Baradia. (MED2017WO003)
- Society of Automotive Engineers (SAE) in association with the International Center for Automotive Technologies (iCAT) organized the 'Efficycle' workshop on 8 July 2017 at NCU. Concepts used in research projects, regulations for the Efficycle competition and events to be considered for developing the project vehicle were discussed. A possibility for internships, placements and conferences was explored with iCAT. The coordinator of the workshop was Dr Ashwini Sharma. (MED2017WO003)

Industrial Interaction

- Mr Manoj Kr Gopaliya visited Maruti-Suzuki, Gurugram and their Manesar plant on 13 July 2017 to review the progress of industrial training of BTech ME 6th Sem students. He also met Mr Saravanan G, Manager-Engine Design & Development, Gurugram Plant and Ms Richa Chitkaria, Dy Manager-Plant Control, Manesar Plant during the visit. (MED2017V012)
- Mr Gagan Baradia and Mr Jagpravesh Dahiya visited Talbros Automotive Components Ltd, Faridabad on 5 July 2017 to review the internship progress of BTech students. They also discussed about future internship and project opportunities with the HR Head of the company. (MED2017V013)
- Mr Anuj Kr Jain visited RICO Auto Industries, Gurugram on 17 July 2017 to review the progress of industrial training of BTech, ME 6th Sem students. He also discussed future internship and live industrial project opportunities with the Manager-HR, Mr Sandeep Mohan. (MED2017V014)

Faculty Activity

As the North Zone In charge, Dr Ashwini Sharma along with the Imperial Society of Innovative Engineers hosted the 'e-mobility expert talk' at IIT Delhi on 8 July 2017. The event witnessed the launch of ESVC-18 which is Asia's biggest Electric Solar Vehicle Challenge. (MED2017O011)

New Faculty

Mr Arjyajyoti Goswami and Dr Vikas Sharma, joined the Dept as Assistant Professors (Sel Grade) and Ms Akanksha Mathur joined as Assistant Professor (Sr Scale). We welcome them to the Department.

Department of Applied Sciences

Faculty Activities

- Dr Hukum Singh, Associate Professor will present a research paper in the 24th Congress of the International Commission of Optics (ICO-24) to be held from 21-25 August 2017 in Japan, Tokyo. It is one of the most important scientific and technical meetings on Optics and Photonics around the world, where many renowned Nobel laureates will present their

Department of Civil and Environmental Engineering

Attendance Sheet for Staff Development Program on

July 13-14, 2017

Sr. No.	Name of Technical Staff	13.07.2017	14.07.2017
1	Rajpal Singh	Present	Present
2	Sohan Lal	Present	Present
3	Sanjay Sharma	Present	Present
4	Vikash Kumar	Present	Present

Mr. Lokesh Choudhary
Deptt. of CEE

NCU-FRM-37

NCU THE NORTHCAP UNIVERSITY	INTER OFFICE MEMO	Review Date:
		Sheet 1 of 1

From: Registrar

To: Tech

CC: Hon'ble GB, Pro-Chancellor, Vice-Chancellor, DOS, HOD, Dean Academics.

December 13, 2017

ORIENTATION PROGRAMME FOR TECHNICAL STAFF

1. A two day workshop titled " **Achieving Service Excellence**" is being conducted in Two batches for our Technical staff, on the following dates and timings:

   a. **First Batch (on 21st and 22nd December 2017)**: Tech staff (Group 1 – as per the attached list). Total participants – 28.
   Time: 9am till 5pm.
   Venue: Room No. 001

   b. **Second Batch (on 23rd and 24th December 2017** Tech staff (Group 2 – as per the attached list). Total participants – 28.
   Time: 9am till 5pm.
   Venue: Room No. 001

2. All administrative arrangements for the workshop including the hospitality arrangements shall be coordinated by Mr. Vivek Jain & Mr. Brijesh Dubey.

3. It is mandatory for all persons whose name have been included in the list attached to attend the workshop. No leave of any sort shall be granted during this period.

4. Participants need to report 30 mins. prior to the start of the workshop.

5. Kindly follow the dress code as mentioned below:
   a. Office formals for Gentlemen and Sari for Ladies on Day 1.
   b. Smart Casuals on Day 2.

Col. Bikram Mohanty (Retd.)
Registrar

STAFF DEVELOPMENT PROGRAM			
21st and 22nd Dec 2017 (Batch 1)			
S. No	**DEPT.**	**NAME**	**DESIGNATION**
1	APS	Mr. Sunil Kumar	Lab Engineer
2	APS	Mr. Sushil Verma	Sr. Technical Assistant
3	APS	Mr. Mahipal Singh Rawat	Sr. Technical Assistant
4	CIVIL	Mr. Rajpal Singh	Lab Engineer
5	CIVIL	Mr. Sanjay Sharma	Technical Assistant
6	CIVIL	Mr. Sohan Lal	Lab Engineer
7	CIVIL	Mr. Vikash Kumar	Technical Assistant
8	CSE & IT	Mr. Sujit Bannerjee	Lab Engineer
9	CSE & IT	Mr. Vijay Budakoti	Sr. Technical Assistant
10	CSE & IT	Mr. Deshraj	Sr. Technical Assistant
11	CSE & IT	Mr. Sanoj Kumar	Lab Engineer
12	CSE & IT	Mr. Braj Kishor Samadhiya	Lab Engineer
13	CSE & IT	Mr. Rohit Pant	Technical Assistant
14	CSE & IT	Mr. Manmohan	Lab Engineer
15	CSE & IT	Mr. Akhand Pratap Singh	Lab Engineer
16	CSE & IT	Mr. Vijay Pratap Singh	Lab Engineer
17	CSE & IT	Mr. Manoj Sharma	Technical Assistant
18	CSE & IT	Mr. Himmat Singh	Lab Engineer
19	CSE & IT	Ms. Shreysee Raman	Technical Assistant
20	EECE	Mr. Harish Chandna	Lab Superintendent
21	EECE	Mr. Nikhilesh Kumar	Lab Engineer
22	EECE	Mr. Bipan Sharma	Lab Engineer
23	EECE	Mr. Tulsi Sharma	Lab Engineer
24	EECE	Mr. Tirlok Nath	Sr. Technical Assistant
25	MECH	Mr. Vijender Pal	Sr. Technical Assistant
26	MECH	Mr. Harsh Singh Rawat	Sr. Technical Assistant
27	Server Room	Mr. Mithun	Technical Assistant
28	Sports	Mr. Sudesh Kumar	Sports Officer

STAFF DEVELOPMENT PROGRAM			
23rd and 24th Dec 2017 (Batch 2)			
S. No	**DEPT.**	**NAME**	**DESIGNATION**
1	EECE	Mr. Gurminder Singh Anand	Sr. Technical Assistant
2	EECE	Mr. Pinaki Dutta	Technical Assistant
3	EECE	Mr Deepak Saini	Technical Assistant
4	EECE	Mr. Baldev Singh	Sr. Technical Assistant
5	EECE	Mr. Ajay Kumar	Lab Engineer
6	Maintenance	Mr. Surender Kumar	Maintenance Staff
7	Maintenance	Mr. Saroj Kumar Dash	Maintenance Staff
8	Maintenance	Mr. Raj Banshi Mahato	Maintenance Staff
9	Maintenance	Mr. Ajay Kumar Sharma	Technician
10	Maintenance	Mr. Jitesh Kumar	Technician
11	Maintenance	Mr. Dharmendra Kumar	Technician
12	MECH	Mr. Harpreet Singh	Lab Engineer
13	MECH	Mr. Dharamveer Kamboj	Sr. Technical Assistant
14	MECH	Mr. S.K Saini	Sr. Technical Assistant
15	MECH	Mr. Sumit Bhat	Lab Engineer
16	MECH	Mr. Mukesh Kumar	Technical Assistant
17	MECH	Mr. Dashrath Yadav	Technical Assistant
18	MECH	Mr. Jagmohan Singh Tomar	Sr. Technical Assistant
19	MECH	Mr. Virender Singh	Sr. Technical Assistant
20	MECH	Mr. Satish Kumar	Lab Engineer
21	MECH	Mr. Laxmi Narayan Joshi	Sr. Technical Assistant
22	MECH	Mr. Ravinder Kumar	Sr. Technical Assistant
23	MECH	Mr. Rakesh Kumar	Lab Engineer
24	MECH	Mr. Devender Kr. Chauhan	Sr. Technical Assistant
25	MECH	Mr. Manoj Pal	Technical Assistant
26	MECH	Mr. Lalit Kumar	Technical Assistant
27	MECH	Ms. Uma Bharti	Lab Engineer
28	Sports	Ms. Sunil Malik	Sports Security

2018-2019

FDP REPORT

ON

Project Based Learning

Dec 7, 2018 – Dec 8, 2018

SCHOOL OF ENGINEERING AND TECHNOLOGY
THE NORTHCAP UNIVERSITY, GURUGRAM-122017

Table of Contents

Contents

1. OBJECTIVES 3
2. OUTCOMES 3
3. RESOURCE PERSON 4
4. VENUE AND TIME 4
5. COURSE CONTENTS 4
6. PARTICIPANT LIST……..5
7. GLIMPSES……...6
8. ATTENDANCE SHEET……. 7

PROFESSIONAL DEVELOPMENT PROGRAM

Department of Computer Science & Engineering

1. OBJECTIVES

Project Based Learning aids in practical hands on knowledge of the subject. In view of the Project based Model to be adopted at The NorthCap University, Gurgaon: faculty underwent a training focussing on the pillars of project based learning. This is the standard for the industry and will help improve the employability of students

As a part of our endeavour to deliver only the best-in-class industry oriented and future ready teaching for the students we need to train our students in this field. In order to train the students, the faculty should have appropriate knowledge, exposure and hands on experience on the subject.

With this aim in mind the Department of Computer Science and Engineering conducted a faculty development program (FDP) on Project based Learning from December 7, 2018 – December 8, 2018.

2. OUTCOMES

This PDP has been successful in inculcating an in-depth knowledge on all aspects of Project based delivery using JAVA. It provided hands on experience on the development of JAVA based projects and applications. This PDP has led the faculty to gain ideas on to the various styles for JAVA Projects and also the possibility of various projects in the field.

3. RESOURCE PERSON

Mr Atul Verma
CEO and Lead Consultant
Knight Learning Solutions

- Sun Certified Java/J2EE Professional
- Having a total 15+ years' Experience as a **Software Professional**.
- Have skills in implementing both Web & Client/Server Architecture based applications.
- Worked on Design, Development, Testing, and Deployment of JEE, MEAN Stack Applications with onsite experience in Singapore.

4. VENUE AND TIME

Room No: N305

Days: December 19, 2018 – December 21, 2018

Time: 8:30 AM to 5:00 PM

- 8:30 am to 10:30 am-Technical Training
- 10:30 am to 10:45 am- Tea
- 10:45 am to 1:30 pm- Technical Training
- 1:30 pm to 2:00 pm- Lunch
- 2:00 pm to 5:00 pm Technical Training

5. COURSE CONTENTS

Day wise Course contents covered during PDP are as follows

Day 1 (7 December, 2018) – Pre Lunch

1) Overview of Version Control Systems – Need and Applications
2) Local vs. Centralised vs. Distributed Version Control Systems
3) Overview of Git & Github.
4) Git Commands
5) Overview of Agile Delivery Model – Application & Need
6) Difference between Waterfall & Agile.
7) Step wise instruction on working with Taiga – tool used for tracking agile project delivery.

Day 1 (7 December, 2018) – Post Lunch

Problem Statement: Design & Develop a two page NCU Website using Agile Project Delivery. All the code to be pushed on Github.

1) Faculty were divided in groups (4-5 members per group) for hands on session covering Taiga & Git.

2) Each group had to create Epics, User Stories and associated tasks for planning the delivery of the given problem statement.
3) All the faculty worked as a team within their respective groups and created the required Epic, User Stories, and Product Backlog on Taiga.
4) Presentations were made by all the groups on how they planned to work on the given problem statement using Agile Model. Presentation included the user stories planned using Taiga.
5) Suggestions were given by Mr Atul on how to improve the planning process following the Industry standards & guidelines.

Day 2 (8 December, 2018) – Pre Lunch

1) Hands on Session – Git Commands
2) Review of Git Commands

Day 2 (8 December, 2018) – Post Lunch

1) Faculty groups resumed their work on the given problem statement.
2) After planning for the delivery on Day 1, Teams now started the development work for the problem statement.
3) All coding done using Git with each team member working on the assigned task.
4) Review of the developed project as per the Industry guidelines & standards.

6. Participant List

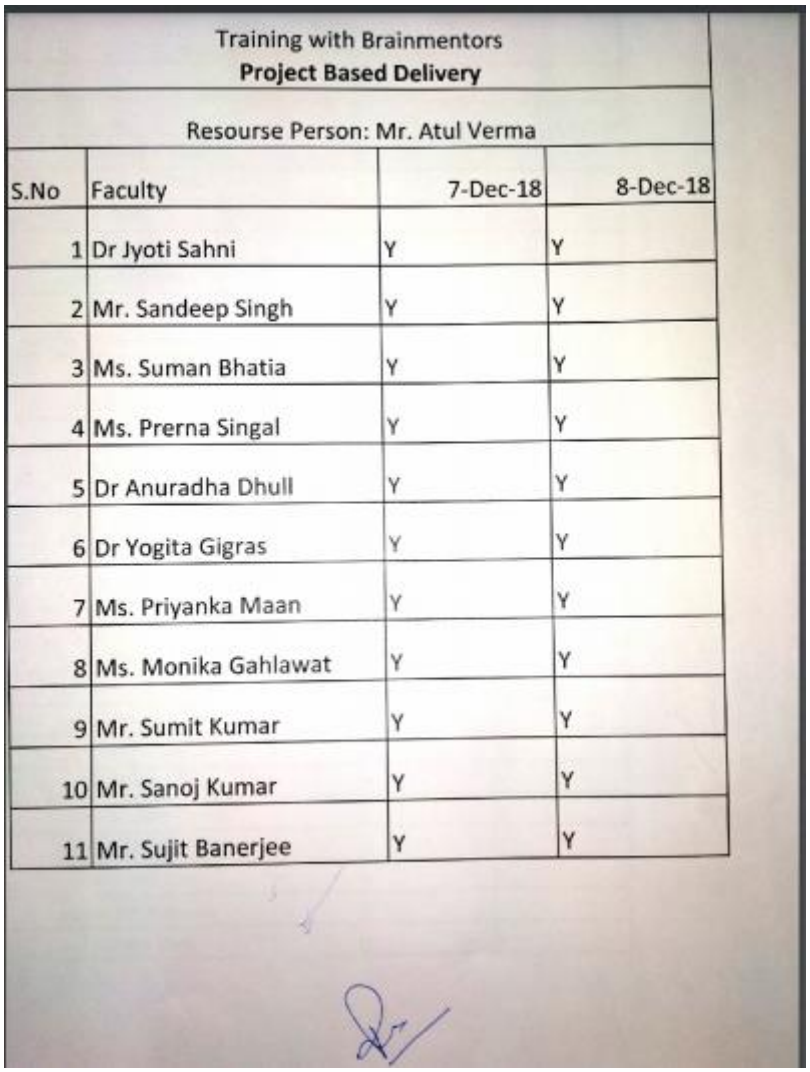
1	Dr Jyoti Sahni
2	Mr. Sandeep Singh
3	Ms. Suman Bhatia
4	Ms. Prerna Singal
5	Dr Anuradha Dhull
6	Dr Yogita Gigras
7	Ms. Priyanka Maan
8	Ms. Monika Gahlawat
9	Mr. Sumit Kumar
10	Mr. Sanoj Kumar
11	Mr. Sujit Banerjee

7. Glimpse

Ms Prerna Singal
Coordinator-PDP

Dr Kavita Khanna
HoD CSE/IT

8. ATTENDANCE SHEET



Training with Brainmentors
Project Based Delivery

Resourse Person: Mr. Atul Verma

S.No	Faculty	7-Dec-18	8-Dec-18
1	Dr Jyoti Sahni	Y	Y
2	Mr. Sandeep Singh	Y	Y
3	Ms. Suman Bhatia	Y	Y
4	Ms. Prerna Singal	Y	Y
5	Dr Anuradha Dhull	Y	Y
6	Dr Yogita Gigras	Y	Y
7	Ms. Priyanka Maan	Y	Y
8	Ms. Monika Gahlawat	Y	Y
9	Mr. Sumit Kumar	Y	Y
10	Mr. Sanoj Kumar	Y	Y
11	Mr. Sujit Banerjee	Y	Y

Professional Development Program

On

Core JAVA Application Development

Department of CSE & IT,
THE NorthCap University,
Gurugram, India

Dec 17-18, 2018

TABLE OF CONTENTS

Sr. No.	Details	Page No
1	Objectives and Outcomes of the Program	1
2	Resource Person Details	2
3	Venue and Time	2
4	Course Contents	3
5	Participant List	5-6
6	Attendance Sheet	6-7

PROFESSIONAL DEVELOPMENT PROGRAM –

CORE JAVA APPLICATION DEVELOPMENT

Department of Computer Science & Engineering

OBJECTIVES

The Department of Computer Science and Engineering intends to revolutionize the teaching pedagogy of the department by implementing Modular Project based learning for B.Tech Semesters staring from January 2019. The aim is to initiate an experiential learning environment that would cultivate an attitude of analytical thinking among the students thereby, building the desired skills and attitude in our future graduates. With this aim in mind the Department of Computer Science and Engineering conducted a faculty development program (PDP) on Application Development in Java; the objective was to provide the faculty members with the required exposure to project development.

OUTCOMES

This PDP has been successful in providing the faculty members the right exposure towards developing a non-trivial project in Java programming language by applying the right engineer principles. The training had the following outcomes:

Apply agile methodology for building software projects

Use of project management platform like Taiga.

Dividing a non-trivial project into components

Building different components in Java and integrating them to build the complete project.

A project for CSV to JSON convertor was built during the PDP for an experiential learning.

RESOURCE PERSON

Mr Atul Verma

Chief Technology Officer,

Knight Learning Solutions, Pvt Ltd

Ghaziabad, Uttar Pradesh

Mr Atul Verma is the Chief Technology Officer with the Knight Learning Solutions Pvt. Ltd, Ghaziabad, Uttar Pradesh, India. In the last five years he is actively involved in building several Education Related Products like:

1. SmartPathshala - for K12 segment - A innovative product which works online, offline mode . Takes care of the students who don't have internet connection.
2. MyEvangelist - for B.Tech segment - Provide them the carrier path, getting them counselled from the Industry people, to make them prepare for the Industry. Their training needs are identified as Individual Development Plan to follow.
3. CodeStrippers - For B.Tech Segment - This product (Online + Mobile App) provides them learning content and also, guides them from the 1st Year of PG education to be Industry ready when they reach to attend the Campus Interviews.
4. Principle Mentor - StackRoute - Ran several trainings on different Pedagogy and methodology to ensure the best output for employees of companies like: "Wipro, NTL, Sapient, Sify etc...". Trained 1000+ on different Tech Stacks, including MEAN Stack, MERN Stack, JAVA Full Stack, Machine Learning, Data Science, IOT.

VENUE AND TIME

Room No: 307

8:30 AM to 6:00 PM

8:30 am to 10:30 am-Technical Training

10:30 am to 10:45 am- Tea

10:45 am to 1:30 pm- Technical Training

1:30 pm to 2:00 pm- Lunch

2:00 pm to 6:00 pm Technical Training

COURSE CONTENTS WITH PRE-REQUISITES

PRE-REQUISITE	
Core Java - https://docs.oracle.com/javase/tutorial/index.html	5-15 days of self-learning
JDBC - https://docs.oracle.com/javase/tutorial/jdbc/overview/index.html	2-3 days of self-learning
MySQL - https://dev.mysql.com/doc/mysql-getting-started/en/	

TRAINING	
Assignment execution during the 1st day of training	
Write stories about the solution	2
Build a data munging program to handle small and big size data	7
Update the database with the resultant data	3
Code review for one participant. Others will practice doing peer reviews	3
Feedback updation in GIT Repo	1

Tools Used:
Eclipse, Taiga, Git

Participant List

Dr. Kavita Khanna
Dr. Vijender Singh
Dr. Prachi
Dr. Jyotsna Singh
Dr. Rita Chhikara
Dr. Jyoti Sahni
Dr. Jagdeep Kaur
Dr. Yogita Gigras
Dr. Supriya Raheja
Dr. Shilpa Mahajan
Dr. Geetika Munjal
Dr. SumanLata Gautam
Ms. Suman Bhatia
Dr. Sandeep Singh
Dr. Anuradha Dhull
Ms. Meghna Sharma
Ms.Neeti Kashyap
Ms. Hitesh Yadav
Ms. Garima Sharma
Ms Prerna Singhal
Ms. Mehak Khurana
Ms. Priyanka Rastogi
Ms. Jyotika Pruthi
Ms. Kanika Gupta
Ms. Sakshi Sharma
Ms. Anjali Goyal

Photo Gallery

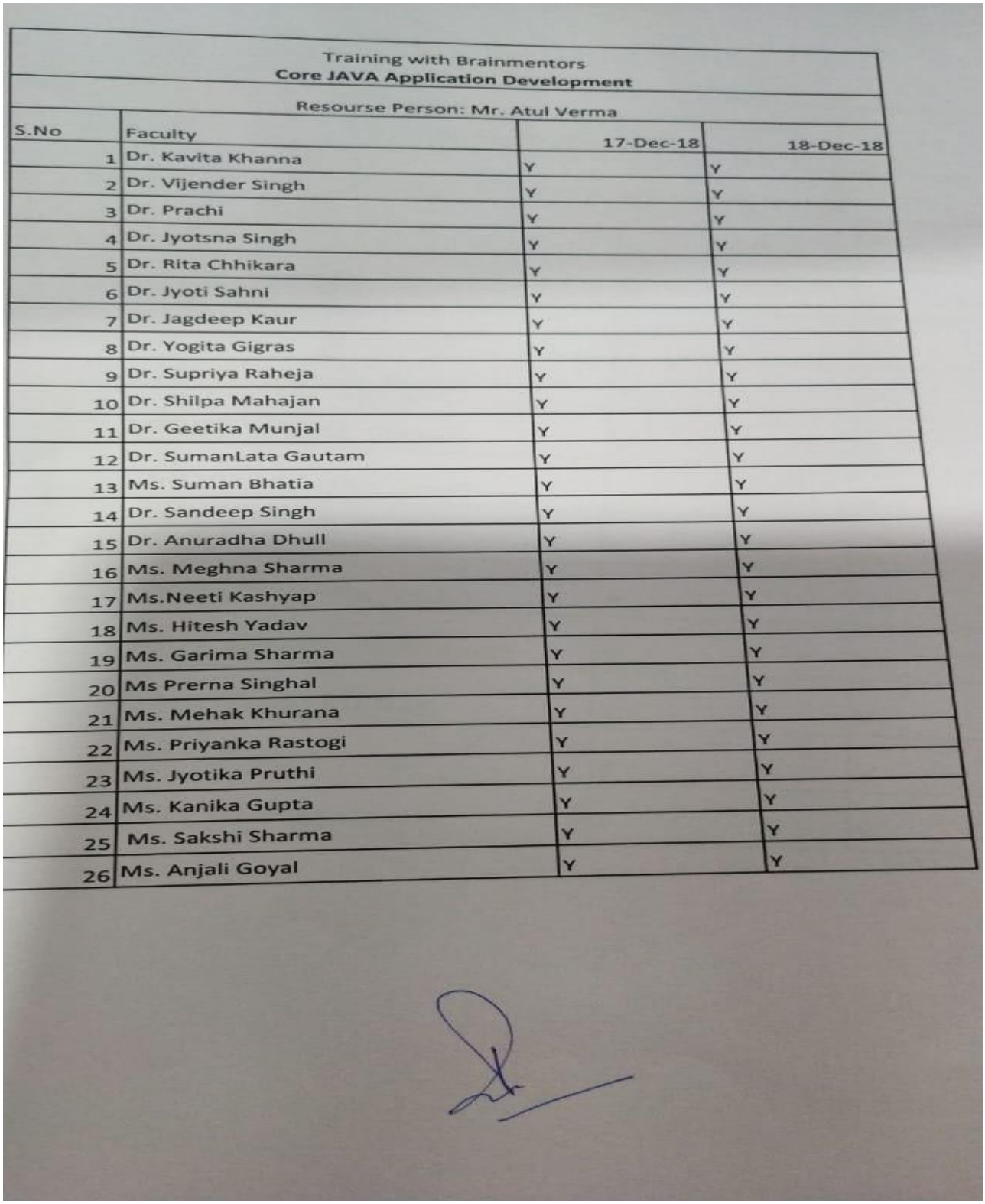
Dr. Jyoti Sahni

Coordinator-PDP

Dr Kavita Khanna

HoD CSE/IT

Attendance Sheet



Training with Brainmentors
Core JAVA Application Development

Resourse Person: Mr. Atul Verma

S.No	Faculty	17-Dec-18	18-Dec-18
1	Dr. Kavita Khanna	Y	Y
2	Dr. Vijender Singh	Y	Y
3	Dr. Prachi	Y	Y
4	Dr. Jyotsna Singh	Y	Y
5	Dr. Rita Chhikara	Y	Y
6	Dr. Jyoti Sahni	Y	Y
7	Dr. Jagdeep Kaur	Y	Y
8	Dr. Yogita Gigras	Y	Y
9	Dr. Supriya Raheja	Y	Y
10	Dr. Shilpa Mahajan	Y	Y
11	Dr. Geetika Munjal	Y	Y
12	Dr. SumanLata Gautam	Y	Y
13	Ms. Suman Bhatia	Y	Y
14	Dr. Sandeep Singh	Y	Y
15	Dr. Anuradha Dhull	Y	Y
16	Ms. Meghna Sharma	Y	Y
17	Ms.Neeti Kashyap	Y	Y
18	Ms. Hitesh Yadav	Y	Y
19	Ms. Garima Sharma	Y	Y
20	Ms Prerna Singhal	Y	Y
21	Ms. Mehak Khurana	Y	Y
22	Ms. Priyanka Rastogi	Y	Y
23	Ms. Jyotika Pruthi	Y	Y
24	Ms. Kanika Gupta	Y	Y
25	Ms. Sakshi Sharma	Y	Y
26	Ms. Anjali Goyal	Y	Y

PDP REPORT

ON

Web Development Technologies

Dec 19, 2018 – Dec 21, 2018

SCHOOL OF ENGINEERING AND TECHNOLOGY
THE NORTHCAP UNIVERSITY, GURUGRAM-122017

Table of Contents

Contents

1. OBJECTIVES 3
2. OUTCOMES 3
3. RESOURCE PERSON 4
4. VENUE AND TIME 4
5. COURSE CONTENTS 4
6. PARTICIPANT LIST 5
7. GLIMPSES 6
8. ATTENDANCE SHEET 7

PROFESSIONAL DEVELOPMENT PROGRAM

Department of Computer Science & Engineering

1. OBJECTIVES

Full Stack Development (MEAN Stack) is a leading technology nowadays and constitutes one of the most promising technologies for Web Development impacting almost all verticals of the world. Thus the fast growing pace of Web based Applications cannot be overlooked.

As a part of our endeavour to deliver only the best-in-class industry oriented and future ready teaching for the students we need to train our students in this field. In order to train the students, the faculty should have appropriate knowledge, exposure and hands on experience on the subject.

With this aim in mind the Department of Computer Science and Engineering conducted a professional development program (PDP) on Web Development Technologies December 19, 2018
– December 21, 2018.

2. OUTCOMES

This PDP has been successful in inculcating an in-depth knowledge on all aspects of Web Development using MEAN Stack (Mongo DB, Express js, Angular, Node js). It provided hands on experience on the development of Web based projects and applications. This PDP has led the faculty to gain ideas on to the various styles for Web based applications and also the possibility of various projects in the field.

3. RESOURCE PERSON

Mr Atul Verma
CEO and Lead Consultant
Knight Learning Solutions

- Sun Certified Java/J2EE Professional
- Having a total 15+ years' Experience as a **Software Professional**.
- Have skills in implementing both Web & Client/Server Architecture based applications.
- Worked on Design, Development, Testing, and Deployment of JEE, MEAN Stack Applications with onsite experience in Singapore.

4. VENUE AND TIME

Room No: N305

Days: December 19, 2018 – December 21, 2018

Time: 8:30 AM to 5:00 PM

- 8:30 am to 10:30 am-Technical Training
- 10:30 am to 10:45 am- Tea
- 10:45 am to 1:30 pm- Technical Training
- 1:30 pm to 2:00 pm- Lunch
- 2:00 pm to 5:00 pm Technical Training

5. COURSE CONTENTS

Day wise Course contents covered during FDP are as follows

Day 1(19 December, 2018) – Pre Lunch

Problem Statement: Design & Develop a Movie App using Web Technology Stack.

1) Overview of Web Technology Stack and state of the art currently used by the Industry.
2) Faculty developed the static Movie app using HTML5 & CSS3.
3) App creation process covered – new tags introduced in HTML5 & CSS3, designing the layout of the app using various tags.

Day 1(19 December, 2018) – Post Lunch

1) Introduction to JavaScript.
2) Faculty now made the Movie App interactive using JavaScript.
3) Challenges faced during the development were discussed.

Day 2 (20 December, 2018) – Pre Lunch

1) Introduction to bootstrapping – basics & installation.

2) Now, Movie App was designed and built using Bootstrap v4 components. The app was designed to be responsive.
3) Demo & hands on session on testing the Web apps – adherence to HTML Standards & Responsiveness.

Day 2 (20 December, 2018) – Post Lunch

1) Introduction to Server-Side & Client-Side web application development.
2) Installation of Nodejs, postman add on for Google Chrome.
3) Hands on session on fetching the movie data in JSON format from the API provided by IMDb.
4) Introduction to Angular 6 – components & directives.
5) Assignment – Install and run the sample application "Tour of Heroes".

Day 3 (21 December, 2018) – Pre Lunch

1) Review of the assignment & doubt clearing.
2) Review of Angular 6 App Structure and workflow.
3) Guided Project – Movie App development using Angular6.

Day 3 (21 December, 2018) – Post Lunch

1) Guided Project continued and finished.
2) All the code pushed on Github.

6. Participant List

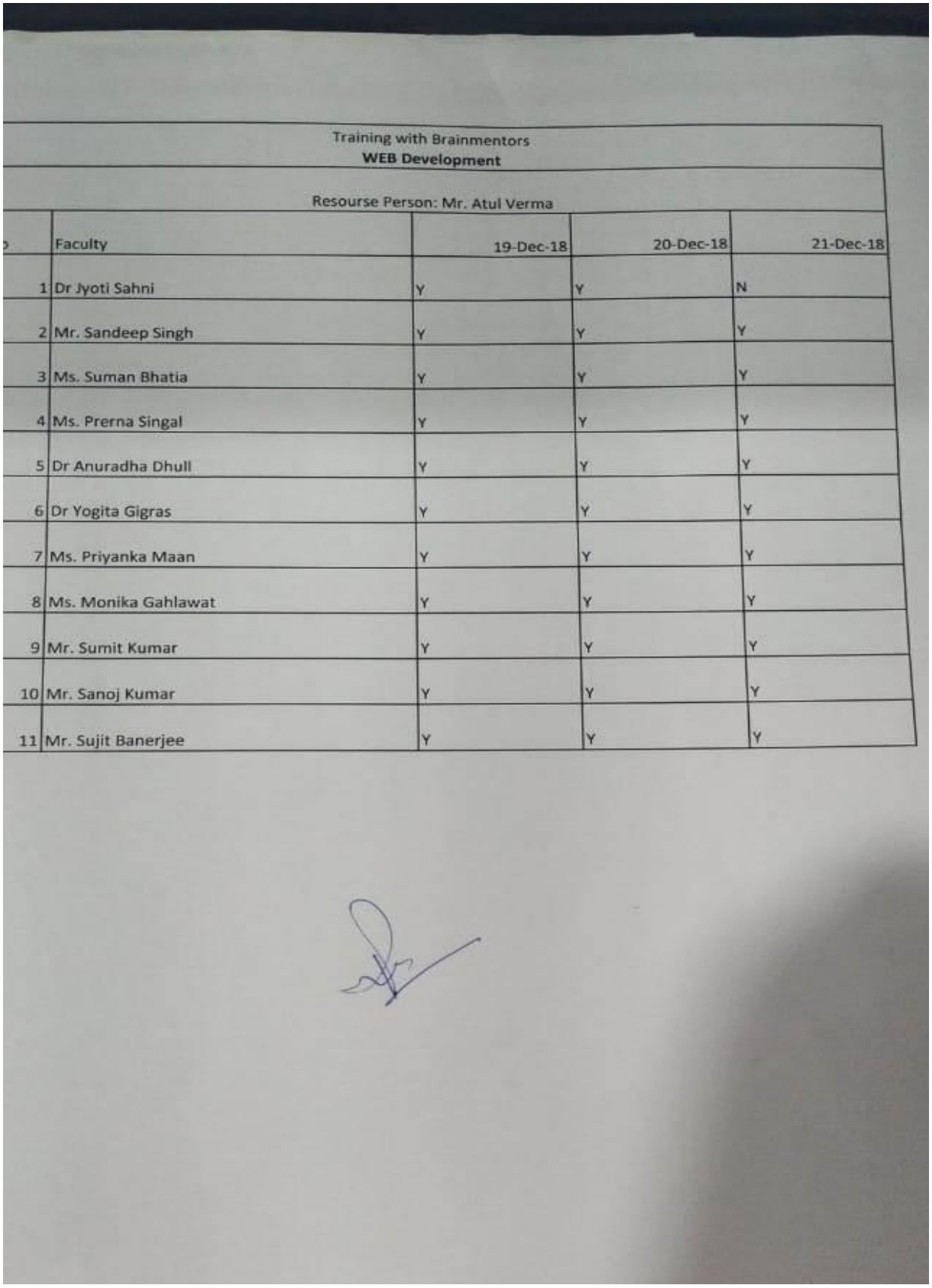
1	Dr Jyoti Sahni
2	Mr. Sandeep Singh
3	Ms. Suman Bhatia
4	Ms. Prerna Singal
5	Dr Anuradha Dhull
6	Dr Yogita Gigras
7	Ms. Priyanka Maan
8	Ms. Monika Gahlawat
9	Mr. Sumit Kumar
10	Mr. Sanoj Kumar
11	Mr. Sujit Banerjee

7. GLIMPSES

Ms. Prerna Singal
Coordinator-FDP

Dr. Kavita Khanna
HoD CSE/IT

8. ATTENDANCE SHEET



Training with Brainmentors
WEB Development

Resourse Person: Mr. Atul Verma

	Faculty	19-Dec-18	20-Dec-18	21-Dec-18
1	Dr Jyoti Sahni	Y	Y	N
2	Mr. Sandeep Singh	Y	Y	Y
3	Ms. Suman Bhatia	Y	Y	Y
4	Ms. Prerna Singal	Y	Y	Y
5	Dr Anuradha Dhull	Y	Y	Y
6	Dr Yogita Gigras	Y	Y	Y
7	Ms. Priyanka Maan	Y	Y	Y
8	Ms. Monika Gahlawat	Y	Y	Y
9	Mr. Sumit Kumar	Y	Y	Y
10	Mr. Sanoj Kumar	Y	Y	Y
11	Mr. Sujit Banerjee	Y	Y	Y

FDP REPORT

ON

Statistics and Probability

May 1, 2019 – Aug 14, 2019

SCHOOL OF ENGINEERING AND TECHNOLOGY
THE NORTHCAP UNIVERSITY, GURUGRAM-122017

Table of Contents

Contents

1. OBJECTIVES 3
2. OUTCOMES 3
3. RESOURCE PERSON 3
4. VENUE AND SCHEDULE 3
5. GLIMPSES……5
6. PARTICIPANT LIST……5
7. ATTENDANCE SHEET……6

FACULTY DEVELOPMENT PROGRAM

Department of Computer Science & Engineering

1. OBJECTIVES

As a part of our endeavour to deliver only the best-in-class industry oriented and future ready teaching for the students we need to train our students in this field. In order to train the students, the faculty should have appropriate knowledge, exposure and hands on experience on the subject. The purpose of this FDP is to impart Statistics and Probability skills to CSE faculty members.

With this aim in mind the Department of Computer Science and Engineering conducted a 29 days faculty development program (FDP) on Statistics and Probability from May 1st , 2019 – Aug 14, 2019.

2. OUTCOMES

- Readiness for Statistics and Probability course
- To understand how to apply concepts of Statistics and Probabilty practically.
- This FDP has led the faculty to gain ideas on to the applications of Statistics and Probability in the area of Data Science.

3. RESOURCE PERSON

Mr. Manuj Chandra
Lecturer at Mages Institute of Excellence

4. VENUE AND SCHEDULE

Room No:135

SCHEDULE

Day	Date	Timings	Topics
1	01/05/2019-07/05/2019	2.30pm-4.30pm	Types of Data (Quantitative, Qualitative, Logical), Exploratory Data Analysis (Histogram, Scatter plots, Box plot)

2	08/05/2019-14/05/2019	2.30pm-4.30pm	Fundamentals of Descriptive Statistics (moments- Measures of Central Tendency, Measure of spread, Measure of Shape)
3	15/05/2019-21/05/2019	2.30pm-4.30pm	Markov Chains, LATEX, Probability and Combinatorics
4	22/05/2019-28/05/2019	2.30pm-4.30pm	Sample Statistics and Population Parameters, Events (Mutually Exclusive, Disjoints, Independent)
5	29/05/2019-04/06/2019	2.30pm-4.30pm	Counting Methods Permutations and Combinations), Joint, Conditional Probability, Bayes' Rule, Discrete Distributions
6	05/06/2019-12/06/2019	2.30pm-4.30pm	Introduction, Probability Mass Function, Cumulative Distribution Function
7	13/06/2019-20/06/2019	2.30pm-4.30pm	Geometric Distribution, Binomial Distribution, Poisson Distribution, Continuous Distributions: ProbabilityDensity Functions
8	21/06/2019-27/06/2019	2.30pm-4.30pm	Cumulative Distribution Function, Inferential Statistics (Normal Distribution, Statistical Sampling, Central Limit Theorem),
9	28/06/2019-04/07/2019	2.30pm-4.30pm	Estimations (Point and Intervals-Confidence intervals with means, sample, proportions)
10	05/07/2019-12/07/2019	2.30pm-4.30pm	Hypothesis Testing :Introduction
11	13/07/2019-20/07/2019	2.30pm-4.30pm	Confidence Intervals, Critical Value based approach
12	21/07/2019-27/07/2019	2.30pm-4.30pm	Confidence Intervals, Critical Value based approach
13	28/07/2019-03/08/2019	2.30pm-4.30pm	P-value based approach
14	04/07/2019-11/07/2019	2.30pm-4.30pm	P-value based approach
15	12/07/2019	2.30pm-4.30pm	ZTests
16	13/07/2019	2.30pm-4.30pm	TTests ,the $\chi 2$ distribution
17	14/07/2019	2.30pm-4.30pm	ANOVA/ANCOVA.

5. Glimpses

6. Participant List

1. **Dr. Shaveta**
2. **Dr. Sujata**
3. **Ms. Meghna Luthra**
4. **Dr. Rita Chitkara**
5. **Ms. Srishti**
6. **Ms. Poonam**
7. **Ms. Shakshi**
8. **Dr. Nitin Malik**
9. **Ms. Meghna Sharma**

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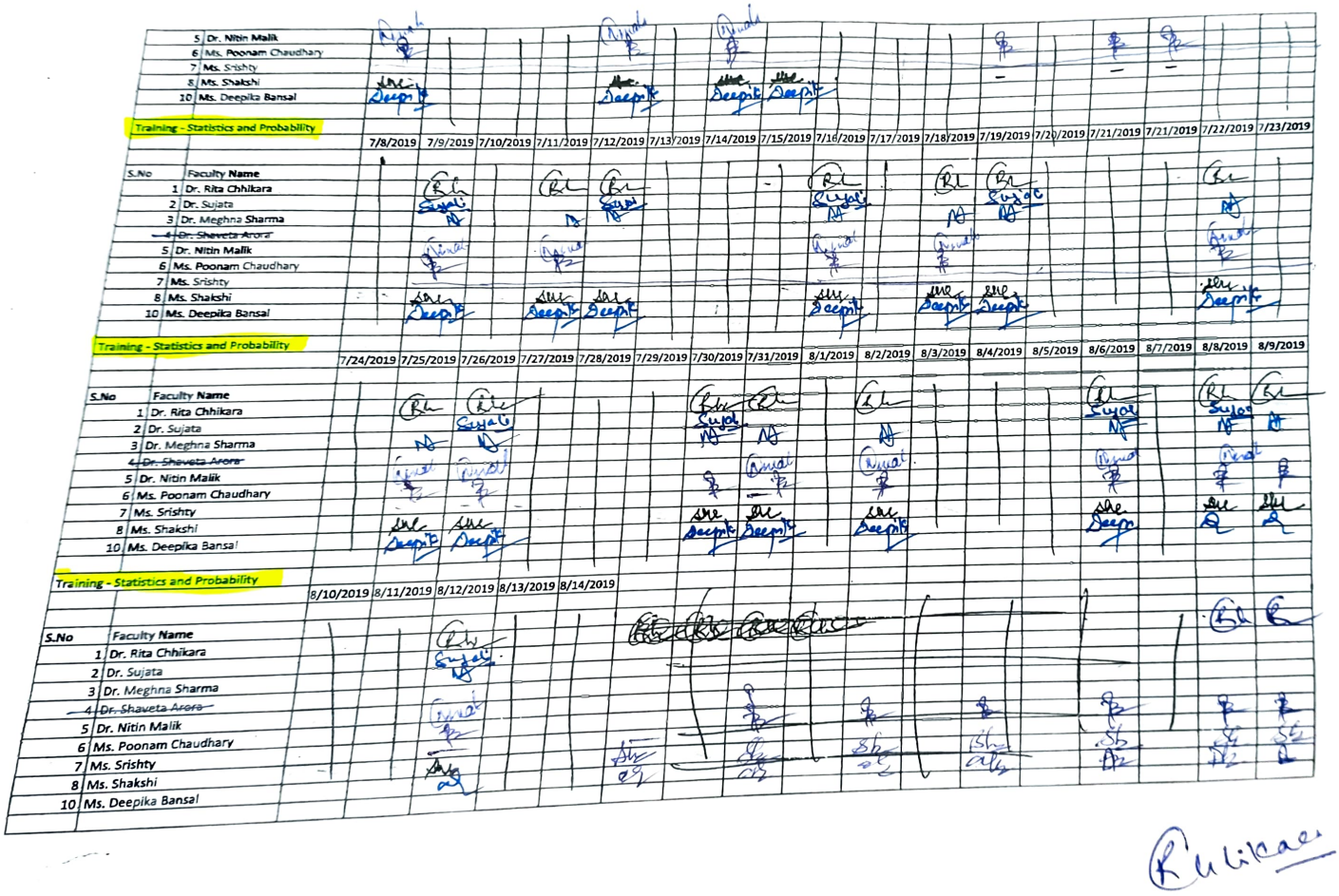
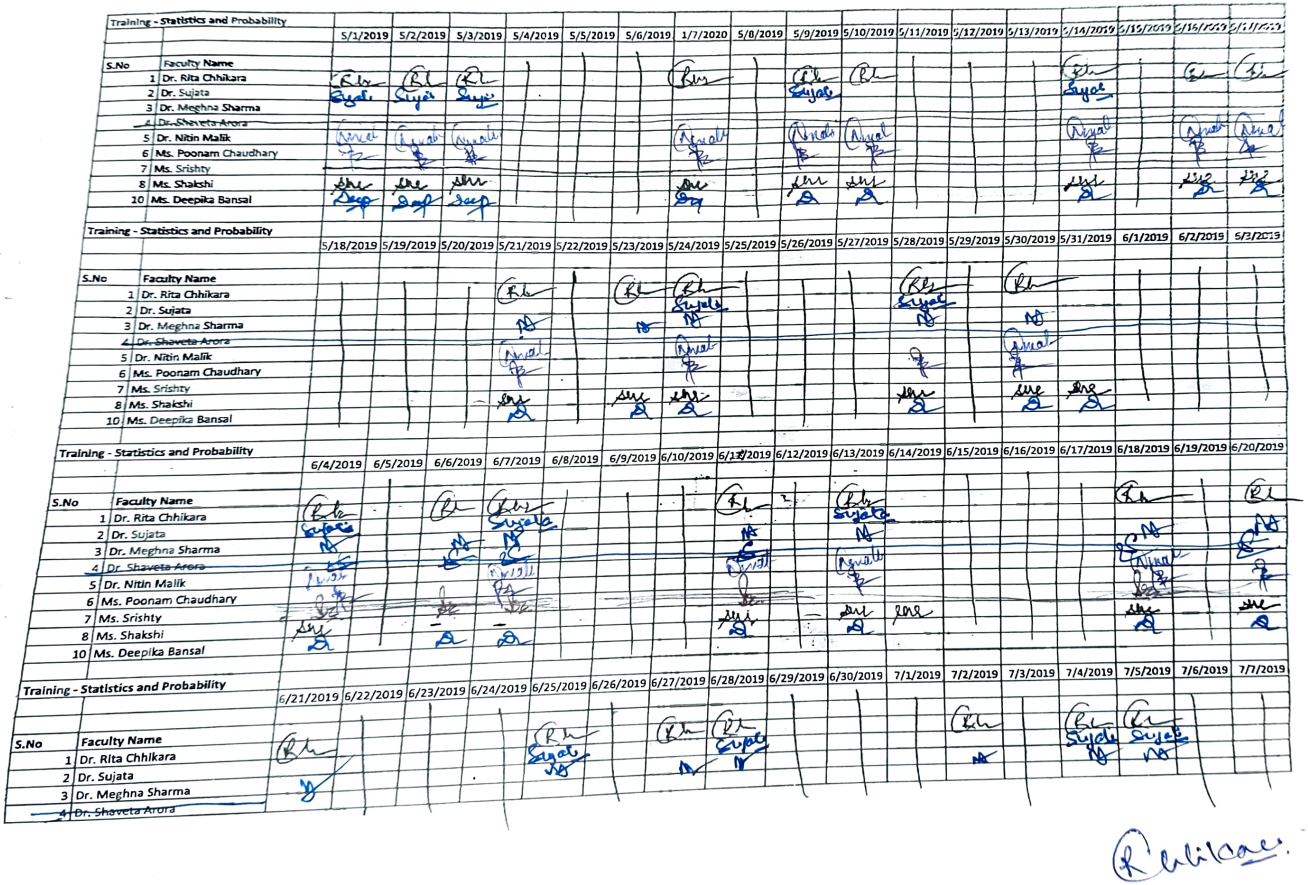
Attendance Sheet





Training - Statistics and Probability

S.No	Faculty Name	5/1/2019	5/2/2019	5/3/2019	5/4/2019	5/5/2019	5/6/2019	1/7/2020	5/8/2019	5/9/2019	5/10/2019	5/11/2019	5/12/2019	5/13/2019	5/14/2019	5/15/2019	5/16/2019	5/17/2019
1	Dr. Rita Chhikara																	
2	Dr. Sujata																	
3	Dr. Meghna Sharma																	
4	~~Dr. Shaveta Arora~~																	
5	Dr. Nitin Malik																	
6	Ms. Poonam Chaudhary																	
7	Ms. Srishty																	
8	Ms. Shakshi																	
10	Ms. Deepika Bansal																	

Training - Statistics and Probability

S.No	Faculty Name	5/18/2019	5/19/2019	5/20/2019	5/21/2019	5/22/2019	5/23/2019	5/24/2019	5/25/2019	5/26/2019	5/27/2019	5/28/2019	5/29/2019	5/30/2019	5/31/2019	6/1/2019	6/2/2019	6/3/2019
1	Dr. Rita Chhikara																	
2	Dr. Sujata																	
3	Dr. Meghna Sharma																	
4	~~Dr. Shaveta Arora~~																	
5	Dr. Nitin Malik																	
6	Ms. Poonam Chaudhary																	
7	Ms. Srishty																	
8	Ms. Shakshi																	
10	Ms. Deepika Bansal																	

Training - Statistics and Probability

S.No	Faculty Name	6/4/2019	6/5/2019	6/6/2019	6/7/2019	6/8/2019	6/9/2019	6/10/2019	6/11/2019	6/12/2019	6/13/2019	6/14/2019	6/15/2019	6/16/2019	6/17/2019	6/18/2019	6/19/2019	6/20/2019
1	Dr. Rita Chhikara																	
2	Dr. Sujata																	
3	Dr. Meghna Sharma																	
4	~~Dr. Shaveta Arora~~																	
5	Dr. Nitin Malik																	
6	Ms. Poonam Chaudhary																	
7	Ms. Srishty																	
8	Ms. Shakshi																	
10	Ms. Deepika Bansal																	

Training - Statistics and Probability

S.No	Faculty Name	6/21/2019	6/22/2019	6/23/2019	6/24/2019	6/25/2019	6/26/2019	6/27/2019	6/28/2019	6/29/2019	6/30/2019	7/1/2019	7/2/2019	7/3/2019	7/4/2019	7/5/2019	7/6/2019	7/7/2019
1	Dr. Rita Chhikara																	
2	Dr. Sujata																	
3	Dr. Meghna Sharma																	
4	~~Dr. Shaveta Arora~~																	

R Chhikara

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The NorthCap University, Gurugram

Faculty Development Program

19 December 2018 – 24 December 2018

and

2 January 2019 – 5 January 2019

Data Science- An Experiential Approach (Part-1 and 2)

Topics:

Python Crash Course
Data Science Libraries
Visualisation Techniques
Descriptive & Inferential Statistics
Machine Learning

TABLE OF CONTENTS

Sr. No	Details	Page No
1	Objectives and Outcomes of the Program	3
2	Resource Person Details	4
3	Venue and Time	4
4	Day Wise Course Contents	5-6
5	Photo Gallery	7
6	Participant List	7-8
7	Attendance Sheet	7-8

FACULTY DEVELOPMENT PROGRAM

Department of Computer Science & Engineering

OBJECTIVES

Data Science is the future of Artificial Intelligence. More than 50,000 jobs in the Data Science and Machine Learning are lying vacant in India, due to lack of skilled professionals. Hence, the fast growing pace of Data Science industry cannot be overlooked.

As a part of our endeavour to deliver only the best-in-class industry oriented and future ready teaching for the students we need to train our students in this field. In order to train the students, the faculty should have appropriate knowledge, exposure and hands on experience on the subject.

The central theme of this Faculty Development Program was to provide a broad overview of basic concepts related to Data Science, Statistics, Machine Learning, Python. The ultimate objective was to promote awareness about recent trends in these areas among researchers and faculty from university. This Faculty Development Program also aimed to improve the quality of data science teaching and learning process. The idea was to stimulate young researchers and faculties for producing a quality research, project proposals with efficient ideology.

With this aim in mind the Department of Computer Science and Engineering had conducted a Faculty Development Program (FDP) on Data Science- An Experiential Approach (Part-1 and 2) from 19th December, 2018- 24th December, 2018 and from 2nd January, 2019- 5th January, 2019.

OUTCOMES

This FDP helps to inculcate an in-depth knowledge on various Data Science concepts and Machine Learning Libraries. At the end of this faculty development program, learners are able to:

- Find answers within large databases by using python tools to import data, explore it, analyse it and generate sharable reports.
- Generate visual reports for data.
- Work on live hands-on Python Projects.

RESOURCE PERSON

Mr Manuj Chandra
Data Scientist,
Mages Institute of Excellence

Mr Munaj Chandra is a technology and management generalist. He is a Graduate in Game Development using the Game Engine, Unity. Manuj has considerable experience in Virtual Reality, having developed games on Oculus Rift, Leap motion and Cardboard e-learning apps which are marketed in United Kingdom and other countries. He brings with him more than a decade of industry experience.

VENUE AND TIME

Room No: 142
9:00 AM to 6:00 PM- Technical Training

- 09:00 AM- 01:00 PM – Technical Training
- 01:00 PM- 02:00 PM – Lunch Break
- 02:00 PM- 05:30 PM – Technical Training
- 05:30 PM- 06:00 PM - QnA

COURSE CONTENTS

Day Wise course contents covered during FDP are as follows:

Day 1:

- Data Science RoadMap
- Data Science Terminologies and Careers
- Python: Assessment Test
- Python Crash Course
- Code Along: Numpy Arrays
- Code Along: Pandas Data Frames
- Project: SF Salaries

Day 2:

- Introduction to Data Visualizalisation
- Code Along: Matplotlib Visualization
- Code Along: Pandas Visualization
- Code Along: Seaborn Visualization
- Project: 911 Kaggle Data Analysis

Day 3:

- Statistics Fundamentals
- Introduction to Descriptive Statistics
- Introduction to Inferential Statistics
- Introduction to Distributions
- Code Along: California Real Estate Project

Day 4:

- Code Along: Boot Strapping
- Code Along: Confidence Intervals Two Means Dependent Samples
- Code Along: Confidence Intervals Two Means Independent Samples
- Project: German Shoe Store Inventory Management
- Overview of P-Value

Day 5:

- Introduction to Machine Learning
- Code Along: Data Preprocessing
- Simple Linear Regression-Concepts
- Code Along: Simple Linear Regression
- Project: SAT-GPA

Day 6:

- Project: Simple Linear Regression
- Multiple Linear Regression
- Assumptions of Multiple Linear Regression

- Code Along: Multiple Linear Regression
- Project: E-Commerce

Day 7:

- Binomial Distribution and Test
- Standard Deviation and Coefficient of Variation
- Covariance and Correlation Coefficient

Day 8:

- Logistic Regression
- Code Along: Logistic Regression Coefficients
- Code Along: Logistic Regression R-Squared and P-Value
- Code Along: Logistic Regression Summary
- Code Along: Confusion Matrix
- Project: Advertising Clicks

PHOTO GALLERY

PARTICIPANTS LIST

Dr. Vijender
Dr. Rita Chhikara
Ms. Manvi
Mr. Nitin Malik
Ms. Shakshi Sharma
Ms. Anjali
Mr. Anand
Ms Anuradha
Dr. Kavita
Dr. Prachie

FDP Data Science- An Experiential Approach Part 1							
Faculty Coordinator: Dr. Rita					1 Week		
S.No	Names	19-Dec	20-Dec	21-Dec	22-Dec	23-Dec	24-Dec
1	Dr. Vijender						
2	Dr. Rita Chhikara						
3	Ms. Manvi						
4	Mr. Nitin Malik						
5	Ms. Shakshi Sharma						
6	Ms. Anjali						
7	Mr. Anand						
8	Ms Anuradha						
9	Dr. Kavita						
10	Dr. Prachie						

FDP Data Science- An Experiential Approach Part 2(2019)					
Faculty Coordinator: Dr. Rita		1 Week			
S.No	Names	2-Jan	3-Jan	4-Jan	5-Jan
1	Dr. Vijender				
2	Dr. Rita Chhikara				
3	Ms. Manvi				
4	Mr. Nitin Malik				
5	Ms. Shakshi Sharma				
6	Ms. Anjali				
7	Mr. Anand				
8	Ms Anuradha				
9	Dr. Kavita				
10	Dr. Prachi				

the challenges in the Civil Engineering profession and shared various career options available to Civil Engineering graduates. He extended his guidance to the students for internship and project work.

Er. P Surya Prakash has established M/s SatyaVani Projects and Consultants Pvt Ltd and is also the Founder and Mentor of Smart Infr-EST, a trust dedicated to Civil Engineering for enhancing employability. (CEE2018G004)

Department of Applied Sciences

Guest Lecture

A lecture on 'Data Analysis' was delivered by Ms Nishtha Madaan, Senior Research Software Engineer, IBM India Research Lab, to BTech 3rd & 4th Year, BSc Maths (H) and MSc Maths students on 4 Oct 2018. She explained Data analysis concepts like pre-processing on Excel files, identifying outliers using scatter plot and histograms. Ms Madaan highlighted feature selection methods and briefed about classification techniques used in Machine Learning (ML). She shared her experience of working on projects on ML and motivated students to use Watson API's for their project work. The lecture was coordinated by Dr Anshu Malhotra and Ms Shilpa Jain. (APS2018G002)

Workshop

A workshop on 'MATHLAB' for Engineering Mathematics I course was organized for faculty members of the Department which was conducted by Dr Seema Thakran and Dr Anshu Malhotra on 16 Oct 2018. The objective of the workshop was to provide a broad overview of the basic concepts and practicals related to Engineering Mathematics I course such as how to enter matrix, algebra of matrices, determinant, inverse, double integration, area and plotting of curves (2D, 3D) etc. Participants received hands-on training on practicals of MATHLAB. (APS2018O034)

Mentor-Mentee Interaction

Prof. Kehar Singh
Ex-Dean & Emeritus Fellow,
IIT Delhi
SS Bhatnagar Awardee

- Faculty Mentor, Prof. Kehar Singh, Hony Distinguished Research Professor, visited the Department of APS to guide PhD research scholars and members of the faculty of the Depts of APS, CSE and ECE on 29 Sept 2018. Prof. Singh motivated them for research and about good publications in reputed journals. He discussed their research work and also topics on optical image processing and other emerging areas. He suggested simulation work like recording and reconstruction of holograms in the Holography Lab. (APS2018O033)

Prof. Kasturi Lal Chopra
Padma Shri
BSc (Hons), MSc, PhD
FNA, FASc, FNASc, FNAE, DSc(hc)
Former Director, IIT Kharagpur
SS Bhatnagar Awardee

- Faculty Mentor, Padma Shri Prof. KL Chopra, visited the Department of APS to guide PhD research scholars and faculty members on 25 Sept 2018. Faculty members and research scholars of the Department interacted about their current research work. Prof. Chopra motivated them for research on topics like super capacitors, fly ash etc. He also encouraged mentees to write project proposals and submit to various funding agencies. (APS2018O036)

Industrial/Educational Visit

Students of BSc Physics (H) accompanied by Dr Sunita Sharma and Dr Pranati Purohit visited the National Physical Laboratory, Delhi on 28 Sept 2018. Students interacted with scientists and visited Pulsed Laser Deposition, Nanostructure and Biomass Fuel laboratories. Students were able to correlate theory with their technological applications. They witnessed the deposition of thin film using latest technology i.e. Molecular beam epitaxy and detection of percentage of elemental composition of waste of flyash. The visit was coordinated by Dr Sunita Sharma. (APS2018I004)

Faculty Activity

Dr Sunita Sharma visited Guru Jambheshwar University of Science & Technology (GJUS&T), Hisar from 22-23 Oct 2018. She discussed with the professors about the experimental set up of Z-scan, bistability of samples as well as various schemes for BSc Physics (H) students. Collaboration has been initiated with the Laser Lab, Dept of Physics, GJUS&T. (APS2018I005)

Department of Mechanical Engineering

Workshop

A workshop on 'Hands-on AutoCAD-3D' was conducted by CADD Centre, Gurugram, on 12 Oct 2018 for 2nd Year ME students. They got hands-on experience on the software which was followed by a quiz. The students who cleared the test were also motivated to participate in a national level competition which will be conducted by CADD Centre. The workshop was coordinated by Mr Anmol Bhatia, Assistant Professor. (MED2018WO002)

Seminar

A seminar on Advanced Manufacturing Tools used in industries was conducted by GROZ Industries for BTech students on 26 Sept 2018. Starting a career in the field of tools from which other mechanical units are governed, was emphasized. Students were briefed about various mechanisms and developments in the tools industry and how GROZ is playing a challenging role in the development of tools. There were practical demonstrations and hands-on training on latest tools and equipment like Industrial Equipment, Fluid Handling

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Workshop of MATHLAB

Attendance Sheet

(Department of Applied Sciences)

Name of Faculty	Department	Date 16-10-2018
Dr. Seema Thakran	APS	Seema Thakran
Dr. Kalika Srivastava	APS	
Dr. Hukum Singh	APS	
Dr. Sangeet Srivastava	APS	
Dr. Sunita Sharma	APS	
Dr. Anshu Malhotra	APS	Anshu
Prof. Prabha Sharma	APS	P.Sh.
Prof. Kehar Singh	APS	
Dr. Sanjay Yadav	APS	
Dr. Trapti Neer	APS	Neer
Dr Tarul Garg	APS	
Dr Rajni Rohilla	APS	Rajni
Dr. Indira P. Debnath	APS	Debnath
Ms. Kanika Gujral	APS	Gujral
Dr. Rashmi Tyagi	APS	R. Tyagi
Dr Pratibha Singh Parihar	APS	Singh

Vehicles (UAV) with an objective to provide modern technologies like Data Science and Artificial Intelligence as the key components of modern digital ecosystem. Aligning to their experience, a one-day tour to Hasinchu Science and Industrial Park was organized and students were shown a short documentary on life of Morris Chang, a tribute for his contribution to TSMC at the TSMC Museum of Innovation. The experts like Prof. Lu, Tzyy Chyang, Prof. Lu, Lin, Yaw-Ling, Prof. Tsay, Chey-Woei made students familiar on the topics like machine learning using python, nature-inspired optimization algorithms, introduction to computer vision, deep learning techniques and applications and Big Data Analytics. (CSEO2019026)

Skill Development Programme

From 10-21 June 2019, the department floated three different Skill Development Courses in which 44 students from BTech CSE participated. The courses were Cyber Security Essentials, Game Tech 101/Game Art 101 and MongoDB conducted by Dr Mehak Khurana, Ms Nisha Arya and Ms Monika Yadav respectively. All these courses were coordinated by Dr Suman Bhatia. (CSEO2019027)

Faculty Activities

- Ms Jyotika Pruthi and Ms Garima attended a two days seminar on Emotional Intelligence on 27 and 28 June 2019 in DAV, Faridabad. The seminar was conducted by ICT Academy which focused on significance of EI at workplace. (CSEO2019029)
- Ms Jyotika Pruthi and Ms Garima attended a session on Design Thinking on 29 June 2019 at The Cirlce, Gurgaon. It focused on the aspects of design thinking from corporate and academic point of view. (CSEO2019030)
- Dr Mehak Khurana has been selected as one of the top 3 finalists as a Cyber Educator for Cyberjutsu award by Womencyberjutsu. The Awards Reception will be held on 8 August 2019 at the beautiful Hyperx eSports arena at the Luxor Hotel and Casino in Las Vegas, NV. (CSEO2019031)

Department of Applied Sciences

Faculty Development Programme

A Faculty Development Programme was organized on 6 and 7 June 2019 in which speakers such as Padma Shri Prof KL Chopra, Ms Bhavna Bhira, Senior Art of living Facilitator and Dr Rajesh V Hariwal, Scientist, High Current Injector Division, Inter-University Accelerator Centre, Delhi spoke on the topics like Why Research in Academia, Seven levels of existence of human beings i.e. Body, Breath, Mind, Memory, Intellect, Ego & Self and different types of accelerators like Linear Accelerators, Electrostatics Accelerators and Synchrotron respectively. (APS2019F001)

Department of Civil & Environmental Engineering

World Environmental Day

"The green we sow, the more we grow", with the will and dedication, the department of Civil and Environmental Engineering celebrated the World Environment Day on 5 June 2019. Dr Archanaa Dongre, HOD, C&EE stressed upon the segregation of dry waste, starting from our homes. Mr Lokesh Choudhary, Faculty, C&EE addressed everyone, expressing how important the day is. It brought together the staff and faculty members owing to a pledge towards growing more, taking a step towards reducing pollution. Everyone contributed their role by planting saplings withstanding a mark towards a new beginning. (CEE2019O037)

Executive Development Programme

A 3 days Executive Development programme on 'Smart and Sustainable Building Materials' was organized by the Department of Civil and Environmental Engineering dated 31 May, 4 and 7 June 2019. The EDP observed the participation of twelve participants from Raj Darbar Realty Pvt Ltd from their different field offices located at Hisar, Agra and NCR region. The event followed with a brief introductory remark by Prof. Prem Vrat, Pro Chancellor & Professor of Eminence, NCU and Prof. HB Raghavendra, Professor, CEE and Vice Chancellor, NCU on the prime importance of the smart and sustainable practices in the avenue of Civil Engineering and the need to conduct EDPs.

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FDP: Why Research in Academia?

Attendance Sheet

(Department of Applied Sciences)

Name of Faculty	Department	Date 06-06-2019	Date 07-06-2019
Dr. Seema Thakran	APS	Seema Thakran	Seema Thakran
Dr. Kalika Srivastava	APS		
Dr. Hukum Singh	APS		
Dr. Pranati Purohit	APS		
Dr. Ambika Devi	APS		
Dr. Sangeet Srivastava	APS		
Dr. Sunita Sharma	APS		
Dr. Bharti Arora	APS		
Dr. Tejpal Singh Chundawat	APS	Tejpal	Tejpal
Dr. Aditya Sharma Ghrera	APS		
Dr. Anshu Malhotra	APS	Anshu	Anshu
Prof. Prabha Sharma	APS	P. Sharma	P. Sharma
Prof. Kehar Singh	APS		
Dr Anupam	APS	Anupam	Anupam
Dr. Sanjay Yadav	APS		
Dr Tarul Grag	APS		
Dr Rajni Rohilla	APS		
Dr. Trapti Neer	APS		
Dr. Indira P. Debnath	APS		
Ms. Kanika Gujral	APS		
Dr. Rashmi Tyagi	APS	R. Tyagi	R. Tyagi
Dr Pratibha Singh Parihar	APS		

coordinated by Dr Vijendra Singh with Dr Prachi, Ms Meghna, Ms Hitesh, Mr Anand Gupta and Ms Manvi. (CSEG2019003)

Project Exhibition

The Department organized a project exhibition on 16 May 2019 which showcased the skills required by students during their course on 'Web Development' which focused on web development technologies like HTML5, CSS3, Java Script, Bootstrap and Angular JS. They demonstrated their hard work, dedication and intelligence by proposing Web based solutions for various real world problems. Hon'ble Dr H B Raghavendra, Vice Chancellor, Mr Swaran Ahuja, Dean Academics, Ms Neeru Bahl, Director School of Emerging Technologies encouraged students by gracing the occasion and giving their valuable inputs for enhancing the projects. (CSEO2019022)

Faculty Activities

- Dr Vijendra Singh has been appointed as an academic advisor of St. Petersburg State Marine Technical University, Peterburg, Russia. This academic collaboration will allow us to implement International projects, held conferences and other scientific and commercial events. (CSEO2019020)

- Ms Hitesh Yadav received an award from CISCO Networking Academy for five years of active participation and dedicated service in Cisco Networking Academy. (CSEO2019021)

- Ms Jyotika Pruthi received an award from Indian Education Awards organized by IIT Patna under the category of 'Top 10 Young Teachers of the Year' on 4 May 2019 for her contributions in the field of teaching not only through her classroom but also through her poetry and storytelling sessions to students of government schools. (CSEO2019023)

- Ms Jyotika Pruthi represented TEDxTheNorthCapUniversity in TEDx India Organizers Workshop 2019 which was held in Pearl Academy of Fashion, Jaipur on 27 & 28 April 2019. (CSEO2019024)

Department of Civil & Environmental Engineering

Himalayan Innovation Challenge at IIT Mandi

On 25 and 26 May 2019, a Himalayan Innovation challenge under the theme 'Start-ups for Himalayas' was organized by IIT Mandi in which 52 teams from different states were selected. Mr Diptendu Roy, Assistant Professor, CEE and Mr Polepally Govardhan, PhD Scholar, representing The NorthCap University presented their Innovative idea of a sustainable brick unit by the name “CSERB- Smart brick” in front of illustrious panel members of the IIT mandi Catalyst. Mr Saurabh Mittal, Senior Advisory, IIT Mandi Catalyst shared his experience of how an idea can be transformed into a finished product. (CEE2019O034)

A Field Trip cum Survey Camp

3 May 2019, focusing on 'Mapping with Total Station', a Field Trip cum Survey Camp for students was organized to Tau Devi Lal Memorial Park, Gurgaon by the department of Civil & Environmental Engineering. Proportioning on both theoretical and practical aspects of the application of Total Station, it registered the concepts of Leveling, Centering, Contouring, Measurement of horizontal and vertical angles on the site. (CEE2019O035)

Attendance sheet survey camp

S.No.	Name	Designation	Signature
1	Mr. Lokesh Choudhary	Asst Prof (senior scale)	
2	Mr. Shubham Bansal	Asst Prof	
3	Mr. Diptendu Roy	Asst Prof	
4	Mr. Rajpal Singh	Lab Engineer	
5	Mr. Sohanlal	Lab Engineer	
6	Mr. Sanjay Sharma	Lab Technical	

One Day FDP at Maruti Centre for Excellence (MACE)

Department of Mechanical Engg. Organized a One-day FDP session on “Mechatronics” at the Capability Development Centre of Maruti Centre for Excellence (MACE) IMT Manesar on December 19, 2018. 12 faculty members (including three technical staff members) of ME and ECE departments attended the FDP. Faculty members were also briefed about latest technologies in the fields of manufacturing, control engineering, automation, and industrial safety. The FDP was coordinated by Dr. Abhishek Pratap Singh.

Following members attended the FDP:

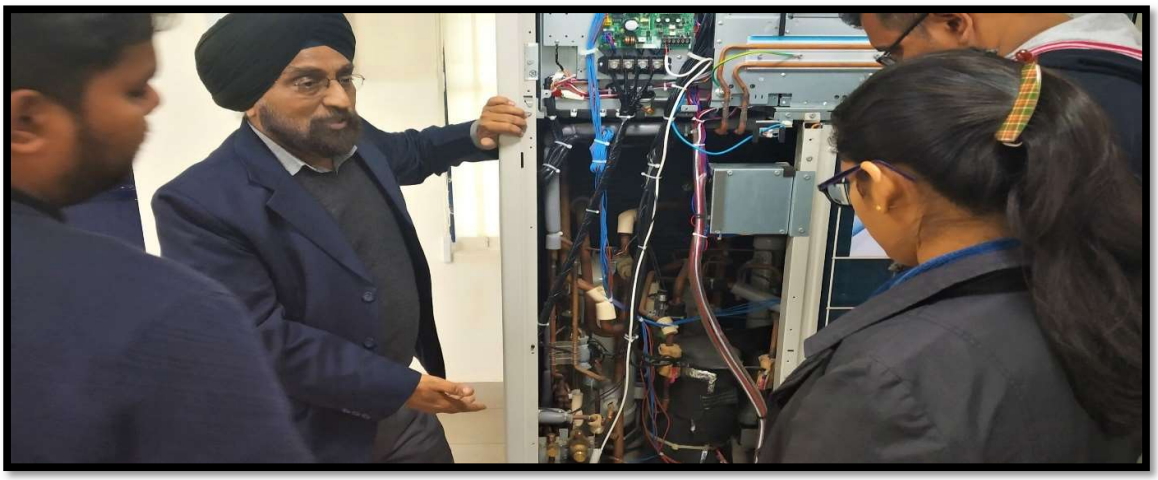
1. Prof. Pramod Bhatia
2. Dr. Shweta Arora
3. Dr. Rohit Lather
4. Mr. Abhishek P. Singh
5. Dr. Satnam Singh
6. Dr. Akanksha Mathur
7. Mr. J.P. Dahiya
8. Ms. Naresh Kumari
9. Mr. Anmol Bhatia
10. Mr. L.N. Joshi
11. Mr. Bipin Sharma
12. Mr. Ajay Kumar

Dr. Satnam

One day Workshop on "Latest Technologies in Air Conditioning System"

Department of Mechanical Engg. Organized a One-day Workshop on "Latest Technologies in Air Conditioning System" in association with Daikin Air Conditioners India Pvt. Ltd. for Faculties & Technical Staff on 20-Dec-2018 (Thursday) from 10.00 AM to 04.00 PM.

The objective of the workshop was to provide a broad overview of the Variable Refrigerant Volume (VRV) & Inverter Technology used in HVAC Industries. The session gave hands-on experience to the attendants and included practice sessions of different modules viz. VRV4 Outdoor unit, Cassette Units, Refnet joint. The workshop was attended by 13 faculty & technical staff of the University. The session was coordinated by Mr. Jag Parvesh Dahiya.



Following members attended the workshop:-

1. Dr. Rohit Lather
2. Dr. Satnam Singh
3. Dr. Akanksha Mathur
4. Dr. Amit Arora
5. Dr. Vikas Sharma
6. Mr. Roshan Raman
7. Mr. Praveen Singh
8. Mr J. P. Dahiya
9. Mr. Ravinder Kumar
10 Mr Harsh Rawat
11. Mr. Satish Kumar
12. Mr. Dashrath Yadav
13. Mr. Dharmveer

The NorthCap University, Gurugram

Faculty Development Program

15 May 2019 – 8 June 2019

Data Science- An Experiential Approach (Part-3)

Topics:

Exploratory Data Analysis
Discrete Probability Distributions
Hypothesis Testing
Computational Statistics
Bayesian Hypothesis

TABLE OF CONTENTS

Sr. No	Details	Page No
1	Objectives and Outcomes of the Program	3
2	Resource Person Details	4
3	Venue and Time	4
4	Day Wise Course Contents	5-6
5	Photo Gallery	6-7
6	Participant List	7-8
7	Attendance Sheet	7-8

FACULTY DEVELOPMENT PROGRAM

Department of Computer Science & Engineering

OBJECTIVES

Data Science is the future of Artificial Intelligence. If one knows how to program, one have the skills to turn data into knowledge using tools of probability and statistics. More than 50,000 jobs in the Data Science and Machine Learning are lying vacant in India, due to lack of skilled professionals. Hence, the fast growing pace of Data Science industry cannot be overlooked.

As a part of our endeavour to deliver only the best-in-class industry oriented and future ready teaching for the students we need to train our students in this field. In order to train the students, the faculty should have appropriate knowledge, exposure and hands on experience on the subject.

With this aim in mind the Department of Computer Science and Engineering is conducting a Faculty Development Program (FDP) on Data Science- An Experiential Approach (Part-3) from 15th May, 2019- 8th June, 2019.

OUTCOMES

This FDP helps to inculcate an in-depth knowledge on applied computational statistics. At the end of this faculty development program, learners will be able to:

- Develop an understanding of probability and statistics by writing and testing code.
- Run experiments to test statistical behaviours, such as generating samples from several distributions
- Use simulations to understand concepts that are hard to grasp mathematically
- Import data from most sources with Python, rather than rely on data that's cleaned and formatted for statistics tools
- Use statistical inference to answer questions about real-world data

RESOURCE PERSON

Mr Manuj Chandra
Data Scientist,
Mages Institute of Excellence

Mr Munaj Chandra is a technology and management generalist. He is a Graduate in Game Development using the Game Engine, Unity. Manuj has considerable experience in Virtual Reality, having developed games on Oculus Rift, Leap motion and Cardboard e-learning apps which are marketed in United Kingdom and other countries. He brings with him more than a decade of industry experience.

VENUE AND TIME

Room No: 142
2:30 PM to 4:30 PM- Technical Training

COURSE CONTENTS

Day Wise course contents covered during FDP are as follows:

Day 1:

- Introduction- Concepts in Statistical Computation
- Information Visualization
- Histograms vs Pie Charts
- Frequency Density
- Exploratory Data Analysis
- Data Transformation, Validation and Interpretation

Day 2:

- Distribution Concepts
- Plotting Histograms
- Outlier Analysis
- Distribution Summarization
- Effect Size Calculation and Interpretation

Day 3:

- Probability Mass Functions
- Visualizing Probability Mass Functions
- Class Size Paradox
- Biasing and Unbiasing in Probability Mass Functions
- Pandas Indexing

Day 4:

- Cumulative Distribution Function
- Limitations of Probability Mass Functions
- Percentile Based Statistics
- Comparison of Percentile Ranks

Day 5:

- Modeling Distributions
- Exponential Distributions
- Normal Distributions

Day 6:

- Normal Probability Plot
- Log Normal Distribution
- Pareto Distribution

Day 7:

- Probability Density Function
- Kernel Density Estimation
- Moments and Skewness

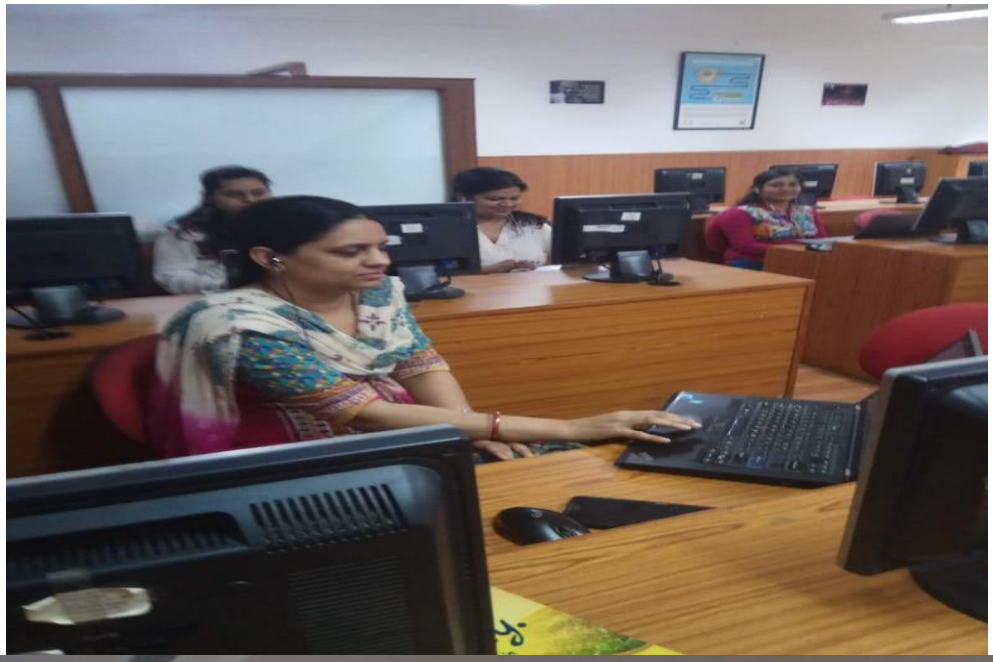
Day 8:

- Relationships Between Variables
- Correlation and Covariance
- Pearson Correlation
- Non-Linear Relationships
- Spearman Correlation

Day 9:

- Correlation and Causation
- Normal Probability Plot
- Log Normal Distribution
- Pareto Distribution

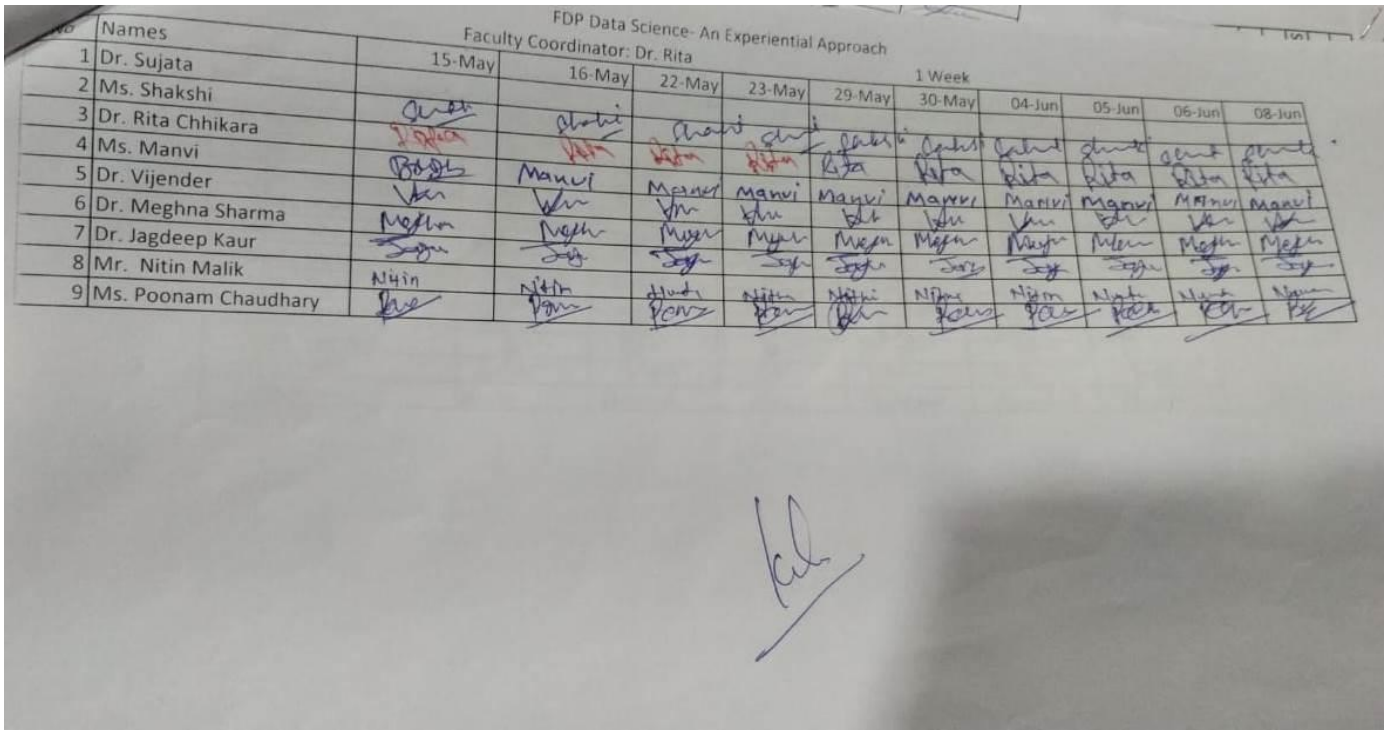
PHOTO GALLERY



PARTICIPANT LIST

Dr. Sujata
Ms. Shakshi
Dr. Rita Chhikara
Ms. Manvi
Dr. Vijender
Dr. Meghna Sharma
Dr. Jagdeep Kaur
Mr. Nitin Malik
Ms. Poonam Chaudhary

ATTENDANCE SHEET



kavita khanna

Dr Kavita Khanna
HoD- CSE/IT

2019-2020

FDP REPORT

ON

Problem Solving and Design Thinking

July 8, 2019 – July 9, 2019

SCHOOL OF ENGINEERING AND TECHNOLOGY
THE NORTHCAP UNIVERSITY, GURUGRAM-122017

Table of Contents

Contents

1. OBJECTIVES 3
2. Expected Outcomes..... 3
3. RESOURCE PERSON..... 4
4. VENUE AND SCHEDULE..... 4
5. Participant List……...5
6. Glimpses..... 5
7. Attendance Sheet……....6

FACULTY DEVELOPMENT PROGRAM

Department of Computer Science & Engineering

1. OBJECTIVES

Objectives: The Department conducted a two day FDP on Problem Solving and Design Thinking on 8 and 9th July 2019. The session covered various activities related to analytical thinking, logical thinking and team building activities.

2. Expected Outcomes:

Faculty should be able to

- Learn the change in pedagogy required for new generation
- To enable the critical and analytical thinking in students.
- To make the classrooms more interactive with fun loving activities.

3. VENUE AND SCHEDULE

Room No: Lab 137

4. Participant List

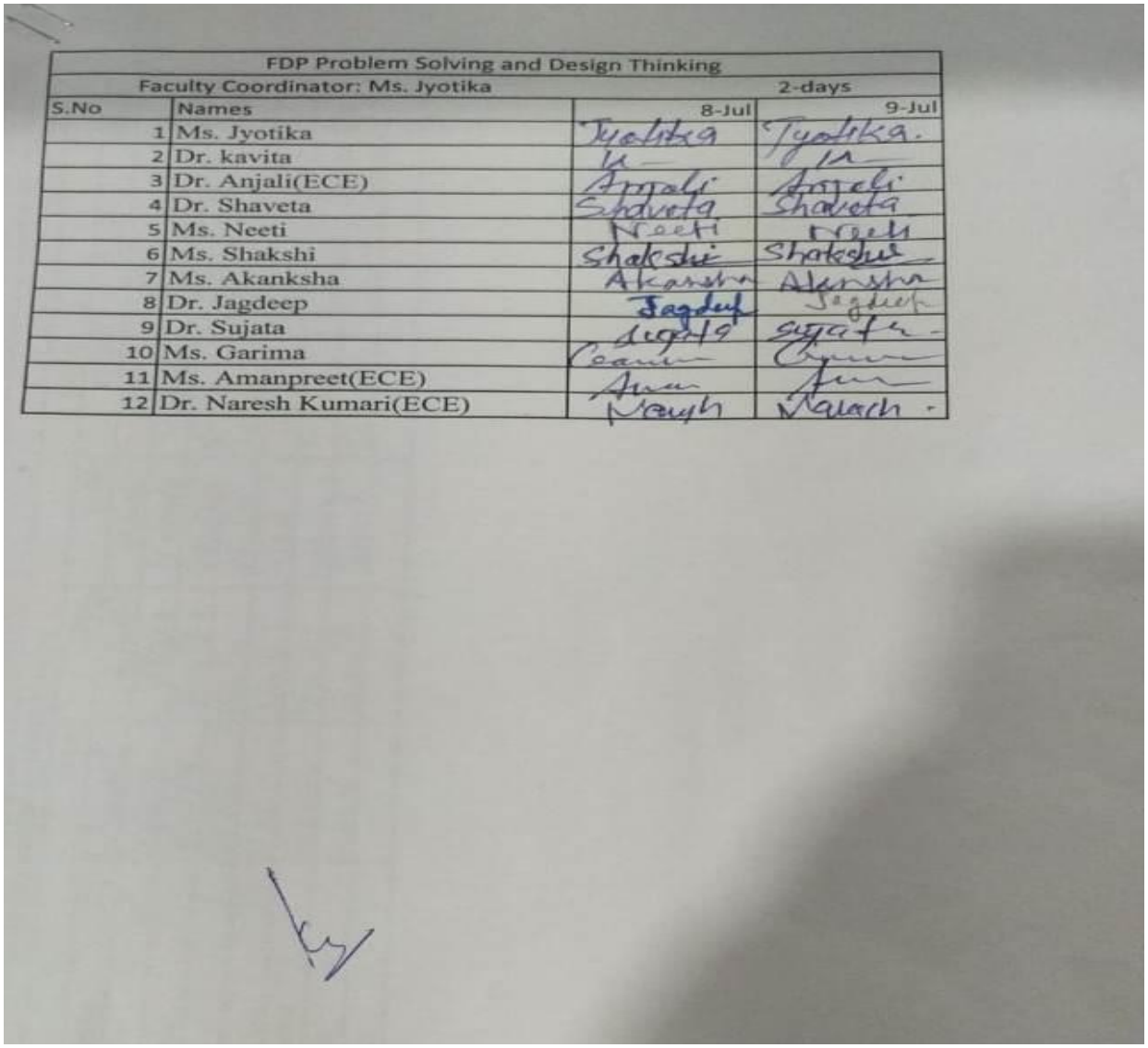
1. Ms. Jyotika
2. Dr. kavita
3. Dr. Anjali(ECE)
4. Dr. Shaveta
5. Ms. Neeti
6. Ms. Shakshi
7. Ms. Akanksha
8. Dr. Jagdeep
9. Dr. Sujata
10. Ms. Garima
11. Ms. Amanpreet(ECE)
12. Dr. Neelima(ECE)

5. Glimpses

Ms. Jyotika
Coordinator-FDP

Dr. Kavita Khanna
HoD CSE/IT

7. Attendance Sheet



FDP Problem Solving and Design Thinking			
Faculty Coordinator: Ms. Jyotika			2-days
S.No	Names	8-Jul	9-Jul
1	Ms. Jyotika	Jyotika	Jyotika.
2	Dr. kavita		
3	Dr. Anjali(ECE)	Anjali	Anjali
4	Dr. Shaveta	Shaveta	Shaveta
5	Ms. Neeti	Neeti	Neeti
6	Ms. Shakshi	Shakshi	Shakshi
7	Ms. Akanksha	Akanksha	Akanksha
8	Dr. Jagdeep	Jagdeep	Jagdeep
9	Dr. Sujata	Sujata	Sujata
10	Ms. Garima	Garima	Garima
11	Ms. Amanpreet(ECE)	Aman	Aman
12	Dr. Naresh Kumari(ECE)	Naresh	Naresh

Report on

Faculty Development Programme

On

Cyber Security

By

Department of CSE and IT

THE NORTHCAP UNIVERSITY, GURGAON

On
1st November, 2019

A Faculty Development Program was organised by the Department of CSE on "Cyber Security" on 1 November. The session was delivered by Mr Prasenjit Das, CISO (Chief Information Security Officer) & Head of Cyber Security in Tata Consultancy Services (Govt Business Unit). He has 25 years of industry experience in the delivery of leading-edge IT & Security technologies worldwide. The programme was attended by all the faculty members from CSE department as well as some student representatives from each year. The FDP programme discussed recent trends in the field of cyber security and received an overwhelming response from the audience.

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EEE Delhi Section Congress

EEE Delhi Section Congress DSC) is one of its biggest annual events which provides a platform

fdp

Previous Next

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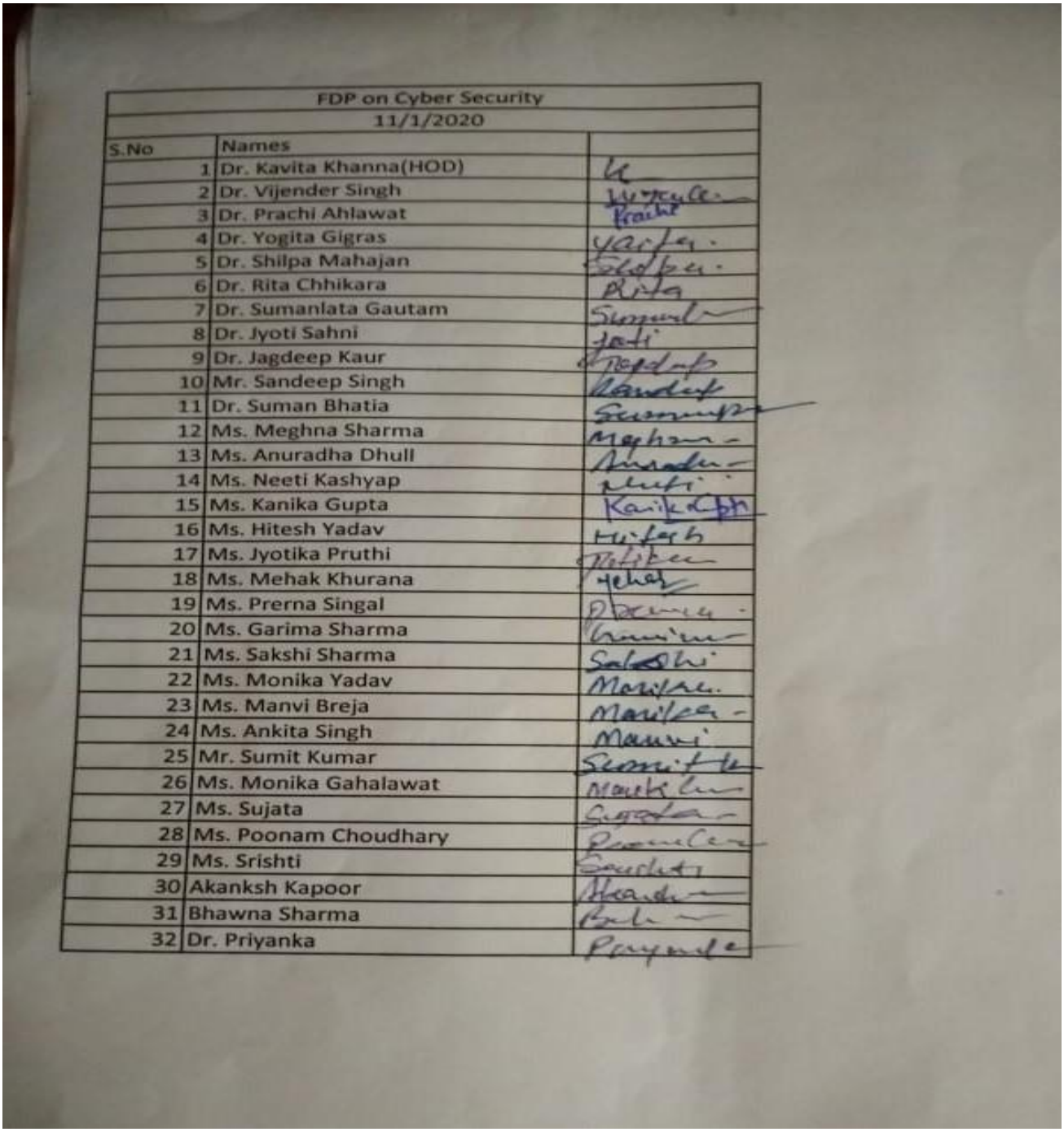
Activate Windows

Attendance Sheet



FDP on Cyber Security		
11/1/2020		
S.No	Names	
1	Dr. Kavita Khanna(HOD)	
2	Dr. Vijender Singh	
3	Dr. Prachi Ahlawat	
4	Dr. Yogita Gigras	
5	Dr. Shilpa Mahajan	
6	Dr. Rita Chhikara	
7	Dr. Sumanlata Gautam	
8	Dr. Jyoti Sahni	
9	Dr. Jagdeep Kaur	
10	Mr. Sandeep Singh	
11	Dr. Suman Bhatia	
12	Ms. Meghna Sharma	
13	Ms. Anuradha Dhull	
14	Ms. Neeti Kashyap	
15	Ms. Kanika Gupta	
16	Ms. Hitesh Yadav	
17	Ms. Jyotika Pruthi	
18	Ms. Mehak Khurana	
19	Ms. Prerna Singal	
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22	Ms. Monika Yadav	
23	Ms. Manvi Breja	
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25	Mr. Sumit Kumar	
26	Ms. Monika Gahalawat	
27	Ms. Sujata	
28	Ms. Poonam Choudhary	
29	Ms. Srishti	
30	Akanksh Kapoor	
31	Bhawna Sharma	
32	Dr. Priyanka	

FDP REPORT

ON

BUSINESS INTELLIGENCE AND DATA VISUALIZATION

August 27, 2019 – October 31, 2019

SCHOOL OF ENGINEERING AND TECHNOLOGY
THE NORTHCAP UNIVERSITY, GURUGRAM-122017

Table of Contents

Contents

1. OBJECTIVES 3
2. EXPECTED OUTCOMES 3
3. RESOURCE PERSON 4
4. VENUE AND SCHEDULE 4
5. GLIMPSES 5

FACULTY DEVELOPMENT PROGRAM

Department of Computer Science & Engineering

1. OBJECTIVES

Objectives: The purpose of this FDP is to expose to the faculty to state of the art Business Intelligence and Data Visualization tools used in the industry like KNIME Analytics and Tableau. The topics covered are Introduction to data analysis, Business Analytics and Intelligence, Data pre-processing, Introduction to KNIME Analytics Platform, KNIME workbook, Data exploration, modeling and reporting in KNIME, Database operations, web, date and time, loops in KNIME, advance reporting, Fundamental of Data Visualization, Introduction to Tableau Desktop, Dashboards and Stories Building a Dashboard, Dashboard Layouts and Formatting , Exploratory vs. Explanatory, Statistical test, Preprocessing, Multidimensional Visualization, Infographics, Level of Details, Building Gapminder in Tableau, Basic GeoCoding for Tableau, Animations, Introduction to SQL, Joins, subqueries, store routine, SQL and Tableau problems.

This FDP provides real world data training that enables the faculty members to effectively take this course.

2. Expected Outcomes:

Faculty should be able to

- Use technical skills in descriptive analytics to support business decision-making.
- Apply the essential Data Science skills using KNIME Analytics to design, build, test and evaluate predictive models.
- Develop an introductory level of competency on the use of Tableau software for data visualization.
- Employ BI tools to load and visualize data to generate useful and informative reports from data.
- Apply Data Science algorithms identify, understand, analyze, prepare, and present effective visualizations on real world data.

Books Recommended:
Textbooks: James Evans, Business Analytics, Global Edition, Pearson, 2nd Edition , 2016

Reference Books:

1. U Dinesh Kumar, Business Analytics: The Science of Data-Driven Decision Making, WILEY INDIA, First Edition, 2017

2. Donabel Santos, Tableau 10 Business Intelligence Cookbook, Packt Publishing Limited, First Edition, 2016

3. Gábor Bakos, KNIME Essentials, Packt Publishing Limited, First Edition, 2013

Reference websites:

1. https://swayam.gov.in/nd1_noc20_mg11/preview
2. https://www.udemy.com/course/data-visualization-with-tableau-novice-to-pro-5-in-1
3. https://www.tableau.com/learn/whitepapers

3. RESOURCE PERSON

Mr. Manuj Chandra

4. VENUE AND SCHEDULE

Online Training on Skype

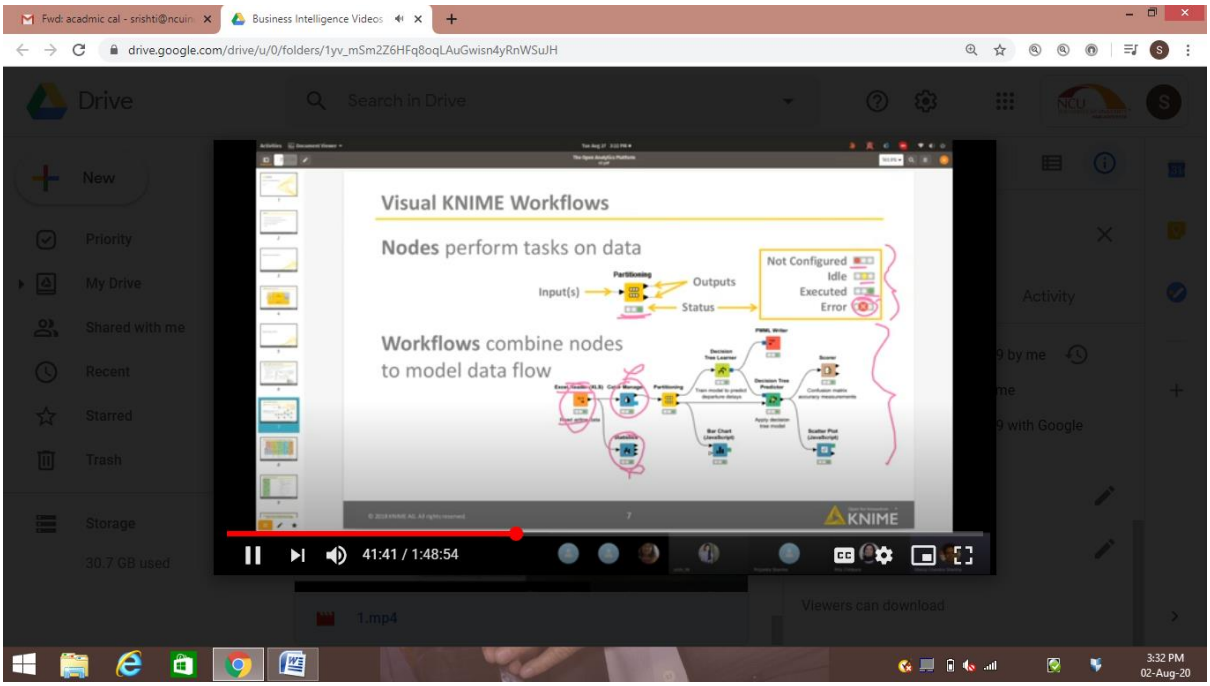
SCHEDULE

Day	Date	Duration	Topics and practice drills to be done
1	27.08.2019	02:30 pm-4:30 pm	Introduction to Business, Analysis, Analytics and Business Intelligence and its need, Introduction and installation of the KNIME Analytics Platform.
2	29.08.2019	02:30 pm-4:30 pm	Setting up a simple KNIME workflow, reader nodes and row and column filter nodes.
3	30.08.2019	02:30 pm-4:30 pm	Types of row and column filters, writer nodes, groupby operation, concatenation operation.
4	03.09.2019	02:30 pm-4:30 pm	Implementation of the concatenation node, grouping operations, rule engine and math formula nodes.
5	05.09.2019	02:30 pm-4:30 pm	Rule engine, math formula, pivoting nodes in KNIME, aggregation operations, building a model using KNIME
6	06.09.2019	02:30 pm-4:30 pm	Introduction to string manipulation node.

7	10.09.2019	02:30 pm-4:30 pm	String manipulation operations, Visualization in KNIME- line plots, scatter plots, histograms.
8	12.09.2019	02:30 pm-4:30 pm	Building models using k-means clustering, linear regression and Naive Bayes classifier.
9	13.09.2019	02:30 pm-4:30 pm	Database connections and query execution.
10	17.09.2019	02:30 pm-4:30 pm	Loops in KNIME.
11	19.09.2019	02:30 pm-4:30 pm	Case switch and advance reporting in KNIME.
12	20.09.2019	02:30 pm-4:30 pm	Use of conditional images in reports, Introduction to Data Visualization, Tableau Desktop Installation and Interface.
13	24.09.2019	02:30 pm-4:30 pm	Tableau vs KNIME and interface of Tableau Desktop.
14	26.09.2019	02:30 pm-4:30 pm	Importing data and plotting simple charts in Tableau.
15	27.09.2019	02:30 pm-4:30 pm	Advanced charts in Tableau like KPI.
16	01.10.2019	02:30 pm-4:30 pm	KPI charts, Pareto charts, Histogram, Table calculations, functions in Tableau.
17	03.10.2019	02:30 pm-4:30 pm	Anomaly Detection.
18	04.10.2019	02:30 pm-4:30 pm	Building a simple churn prediction model.
19	10.10.2019	02:30 pm-4:30 pm	Customer scatterplots, dashboards, storytelling.
20	11.10.2019	02:30 pm-4:30 pm	Tableau maps and different types of maps in Tableau.
21	15.10.2019	02:30 pm-4:30 pm	Data blending in Tableau.
22	16.10.2019	02:30 pm-4:30 pm	Joins and Trendlines in Tableau.

23	18.10.2019	02:30 pm-4:30 pm	Tableau project.
24	22.10.2019	02:30 pm-4:30 pm	Table calculations and calculated fields, Startup Quadrant
25	24.10.2019	02:30 pm-4:30 pm	The Coal Terminal Project.
26	30.10.2019	02:30 pm-4:30 pm	Interfacing Tableau and SQL and executing queries.
27	31.10.2019	02:30 pm-4:30 pm	Advanced Tableau operations.

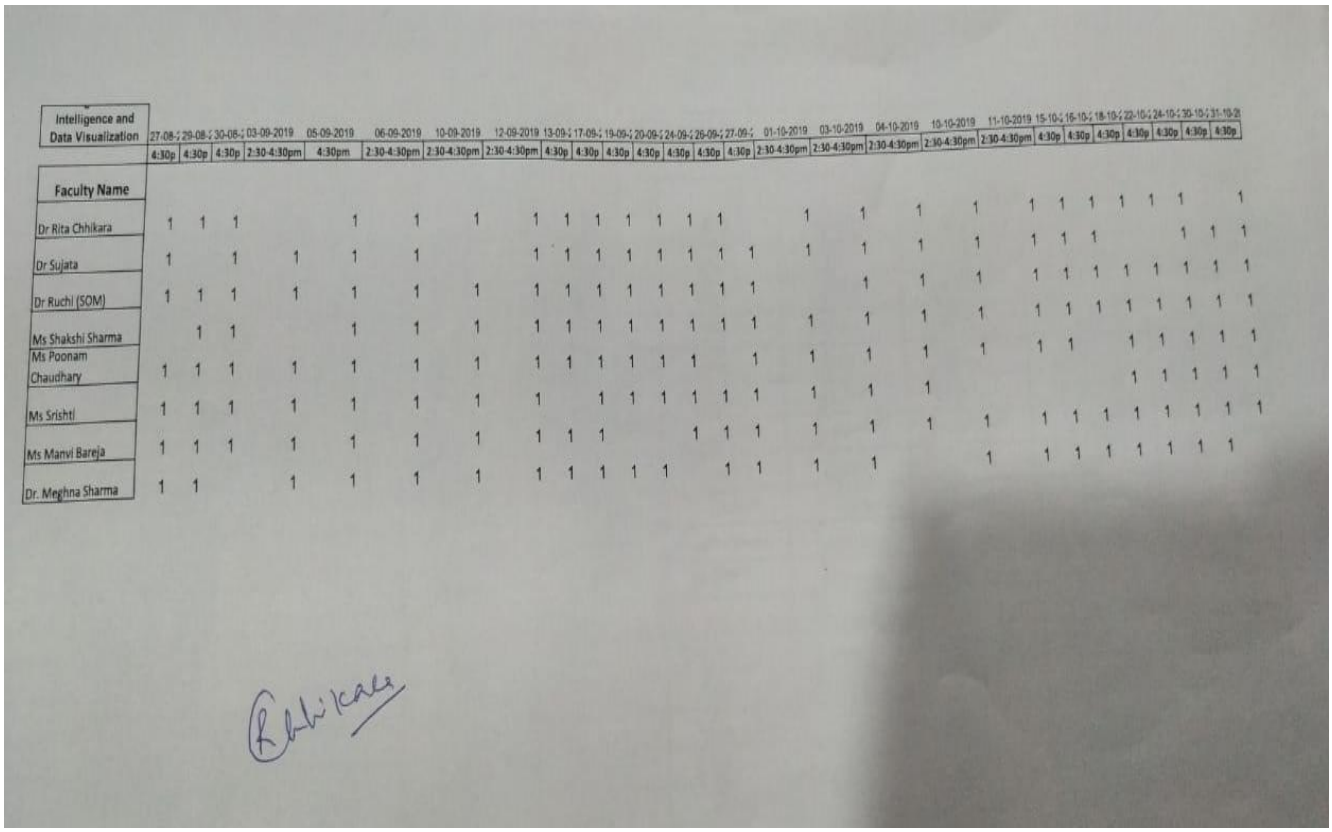
5. Glimpses



Ms. Poonam Chaudhary
Ms. Srishti
(Coordinator-FDP)

Dr. Kavita Khanna
HoD CSE/IT

Attendance Sheet



Intelligence and Data Visualization

Faculty Name	27-08-;	29-08-;	30-08-;	03-09-2019	05-09-2019	06-09-2019	10-09-2019	12-09-2019	13-09-;	17-09-;	19-09-;	20-09-;	24-09-;	26-09-;	27-09-;	01-10-2019	03-10-2019	04-10-2019	10-10-2019	11-10-2019	15-10-;	16-10-;	18-10-;	22-10-;	24-10-;	30-10-;	31-10-2
	4:30p	4:30p	4:30p	2:30-4:30pm	4:30pm	2:30-4:30pm	2:30-4:30pm	2:30-4:30pm	4:30p	4:30p	4:30p	4:30p	4:30p	4:30p	4:30p	2:30-4:30pm	2:30-4:30pm	2:30-4:30pm	2:30-4:30pm	2:30-4:30pm	4:30p	4:30p	4:30p	4:30p	4:30p	4:30p	4:30p
Dr Rita Chhikara	1	1	1		1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1		1
Dr Sujata	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1	1	1
Dr Ruchi (SOM)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1
Ms Shakshi Sharma		1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Ms Poonam Chaudhary	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1			1	1	1	1
Ms Srishti	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Ms Manvi Bareja	1	1	1	1	1	1	1	1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Dr. Meghna Sharma	1	1		1	1	1	1	1	1	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1	

Report on

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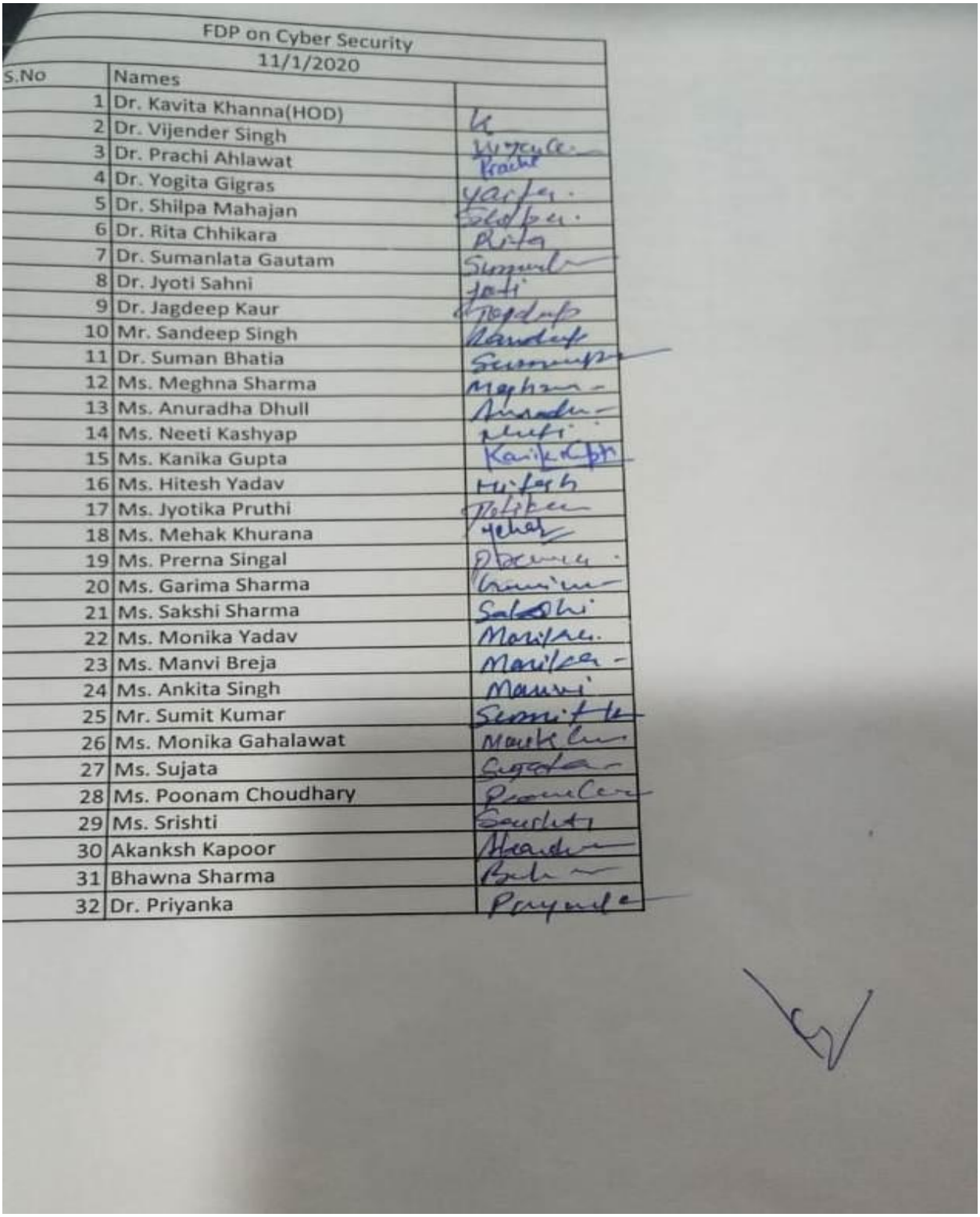

FDP on Cyber Security

11/1/2020

S.No	Names	
1	Dr. Kavita Khanna(HOD)	
2	Dr. Vijender Singh	
3	Dr. Prachi Ahlawat	
4	Dr. Yogita Gigras	
5	Dr. Shilpa Mahajan	
6	Dr. Rita Chhikara	
7	Dr. Sumanlata Gautam	
8	Dr. Jyoti Sahni	
9	Dr. Jagdeep Kaur	
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15	Ms. Kanika Gupta	
16	Ms. Hitesh Yadav	
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26	Ms. Monika Gahalawat	
27	Ms. Sujata	
28	Ms. Poonam Choudhary	
29	Ms. Srishti	
30	Akanksh Kapoor	
31	Bhawna Sharma	
32	Dr. Priyanka	

FDP REPORT

ON

PENETRATION TESTING

Dec 17, 2019 – Dec 24, 2019

SCHOOL OF ENGINEERING AND TECHNOLOGY
THE NORTHCAP UNIVERSITY, GURUGRAM-122017

Table of Contents

Contents

1. OBJECTIVES 3
2. Expected Outcomes..... 3
3. RESOURCE PERSON..... 4
4. VENUE AND SCHEDULE..... 4
5. Participant List……...5
6. Glimpses..... 5
7. Attendance Sheet……....6

FACULTY DEVELOPMENT PROGRAM

Department of Computer Science & Engineering

1. OBJECTIVES

Objectives: The purpose of this FDP is to expose to real time vulnerabilities, lunching attacks and testing the security of computers to CSE faculty members. This training includes different ways of gathering information about the target and consequently discusses various ways to discover and exploit large number of vulnerabilities to gain access of target machine. This will provide application-based implementations training that enables the faculty to effectively take this course.

2. Expected Outcomes:

Faculty should be able to

- Use scanning tools to conduct comprehensive network sweeps, port scans, OS, fingerprinting, to develop a map of target environment.
- Recognize security vulnerabilities and investigate vulnerable systems
- Apply penetration testing tools to exploit and vulnerable systems.
- Work on hands-on projects that develop ability to solve real-world problems

Books Recommended:

Textbooks:

- Stuart McClure, Joel Scam bray, George Kurtz, “Hacking Exposed 7: Network Security

Secrets and Solutions”, Tata McGraw Hill, 1 st edition, 2012

Reference Books:

- Wil Allsopp, Advanced Penetration Testing: Hacking the World’s Most Secure Networks, Willey, 1st Edition, 2017
- Georgia Weidman, Penetration Testing, A Hands-On Introduction to Hacking, No Starch Press, 1st Edition, June 2014
- Lee Allen, Advanced Penetration Testing for Highly Secured Environments: The Ultimate Security Guide, PACKT publishing, 1st Edition, May 15, 2012
- Patrick Engebretson, The Basics of Hacking and Penetration Testing, Syngress, 1st Edition, 2011
- Cyber Security Essentials, James Graham, Richard Howard, Ryan Olson, CRC Taylor and Francis, 1st edition, 2010

Reference websites:

- https://www.cybrary.it/course/web-application-pen-testing/
- https://www.cybrary.it/course/advanced-penetration-testing/
- https://www.cybrary.it/course/ethical-hacking/

3. RESOURCE PERSON

Dr. Mehak Khurana
Assistant Professor (CSE)

4. VENUE AND SCHEDULE

Room No:142

SCHEDULE

Day	Date	Duration	Topics and practice drills to be done
1	17th Dec	10:00 am-1:00 pm	Revision of all the 16 sessions completed earlier. Java script introduction. Introduction to VAPT, Firewall, tools that will be required. Installation of proxy servers, VPN etc **In class: Proxy Server Extensions download**
2	18th Dec	10:00 am-1:00 pm	Installation of Burp suite, Setting up the proxy, installation of certificates. Introduction to Burp suite attacks based on burp suite, Why and how it is used. **In class: Installation and downloading certificates**
3	19th Dec	10:00 am-1:00 pm	File Inclusion Vulnerability, different attack types (snipper, battering ram, pitchfork, clusterbomb) **In class: practice on real time website**
4	20th Dec	10:00 am-1:00 pm	Authentication bypass using Burp suite, Proxy Servers, Intruder, Scanner, Spider, Repeater, Encoder. Brute Force attack using Burp suite. **In class: Exploitation using burp suite, Practice on acunetix**
5	21st Dec	10:00 am-1:00 pm	Introduction to Reverse Engineering, Reverse engineering using Algorithm Manipulation. Installation of olly debugger, introduction to debugger, Exploiting PowerISO.exe **In class: Exploiting or Reverse engineering of CheetahDVDBurner**

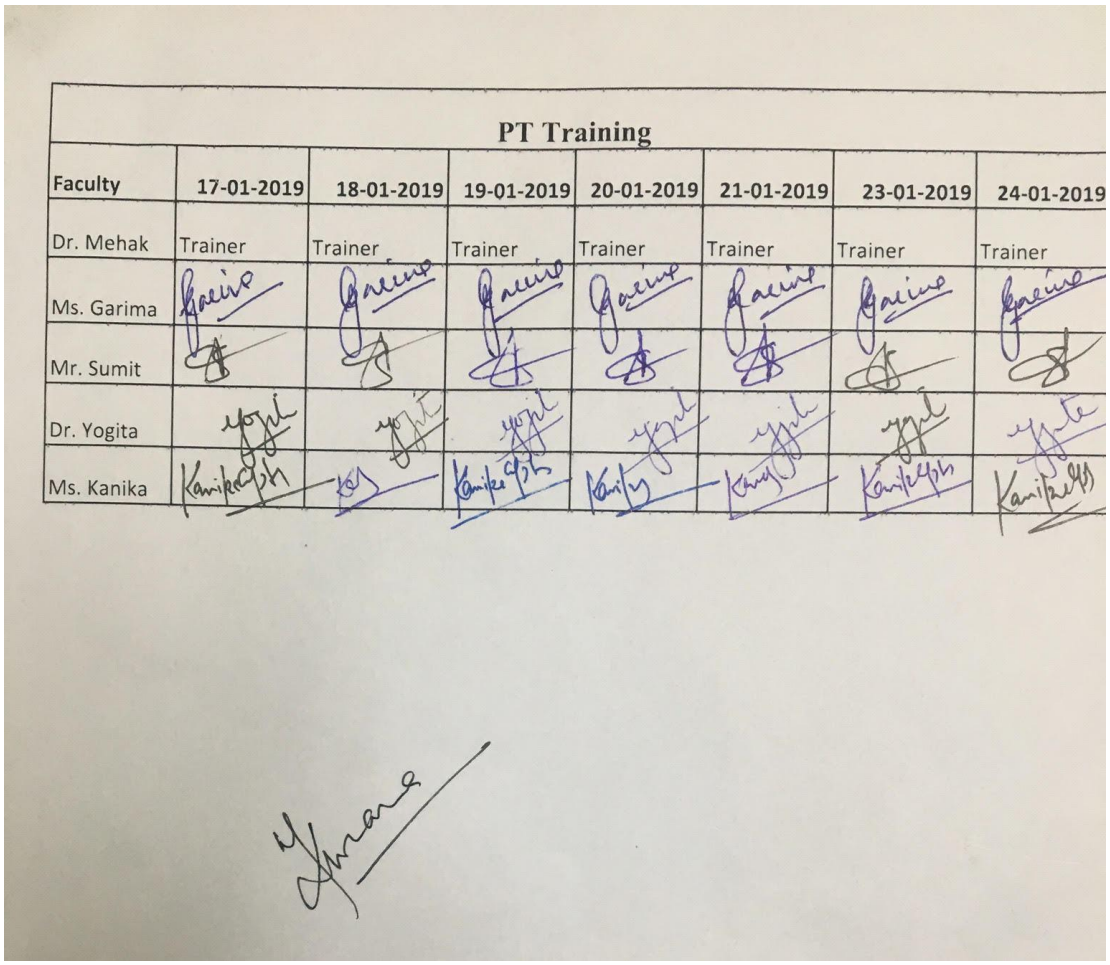
5	23rd Dec	10:00 am-1:00 pm	Introduction to concept of File Manipulation, Reverse engineering using File Manipulation. Introduction to Hash and its related tools, Exploiting SMAC2.0 **In class: Exploiting or Reverse engineering of SMAC2.0,** Arbitary File upload, XSS using burp suite and DVWA. **In class: Installation of DVWA and practice on DVWA. Exploit amazon, woodland, acunetix**
6	24th Dec	10:00 am-1:00 pm	CSRF, DVWA usage with CSRF, Application to automate VAPT CSRF. **In class: practice on DVWA**

5. Participant List

1. Dr. Mehak (Trainer)
2. Dr. Yogita
3. Ms. Garima
4. Ms. Kanika Gupta
5. Mr. Sumit

6. Glimpses

7. Attendance Sheet



PT Training							
Faculty	17-01-2019	18-01-2019	19-01-2019	20-01-2019	21-01-2019	23-01-2019	24-01-2019
Dr. Mehak	Trainer	Trainer	Trainer	Trainer	Trainer	Trainer	Trainer
Ms. Garima							
Mr. Sumit							
Dr. Yogita							
Ms. Kanika							

Dr. Mehak Khurana
Coordinator-FDP

Dr. Kavita Khanna
HoD CSE/IT

FDP REPORT

ON

Java

Dec 9, 2019 – Dec 17, 2019

SCHOOL OF ENGINEERING AND TECHNOLOGY
THE NORTHCAP UNIVERSITY, GURUGRAM-122017

Table of Contents

Contents

1. OBJECTIVES 3
2. OUTCOMES 3
3. RESOURCE PERSON 3
4. VENUE AND SCHEDULE 3
5. PARTICIPANT LIST……4
6. GLIMPSES……5
7. ATTENDANCE SHEET……6

FACULTY DEVELOPMENT PROGRAM

Department of Computer Science & Engineering

1. OBJECTIVES

As a part of our endeavour to deliver only the best-in-class industry oriented and future ready teaching for the students we need to train our students in this field. In order to train the students, the faculty should have appropriate knowledge, exposure and hands on experience on the subject. The purpose of this FDP is to expose Java programming fundamentals to CSE faculty members. This will provide project-based training that enables the faculty to effectively take FOCP II course.

With this aim in mind the Department of Computer Science and Engineering conducted a five days faculty development program (FDP) on Java from December 9, 2019 – December 17, 2019.

2. OUTCOMES

- Readiness for FOCP II course
- To develop the projects as per industry standards.
- It provided hands on experience on the development of Java based projects and applications. This FDP has led the faculty to gain ideas on to the various styles for Java based applications and also the possibility of various projects in the field.

3. RESOURCE PERSON

Ms. Neeti Kashyap
Asst. Prof. (CSE)

4. VENUE AND SCHEDULE

Room No:133

SCHEDULE

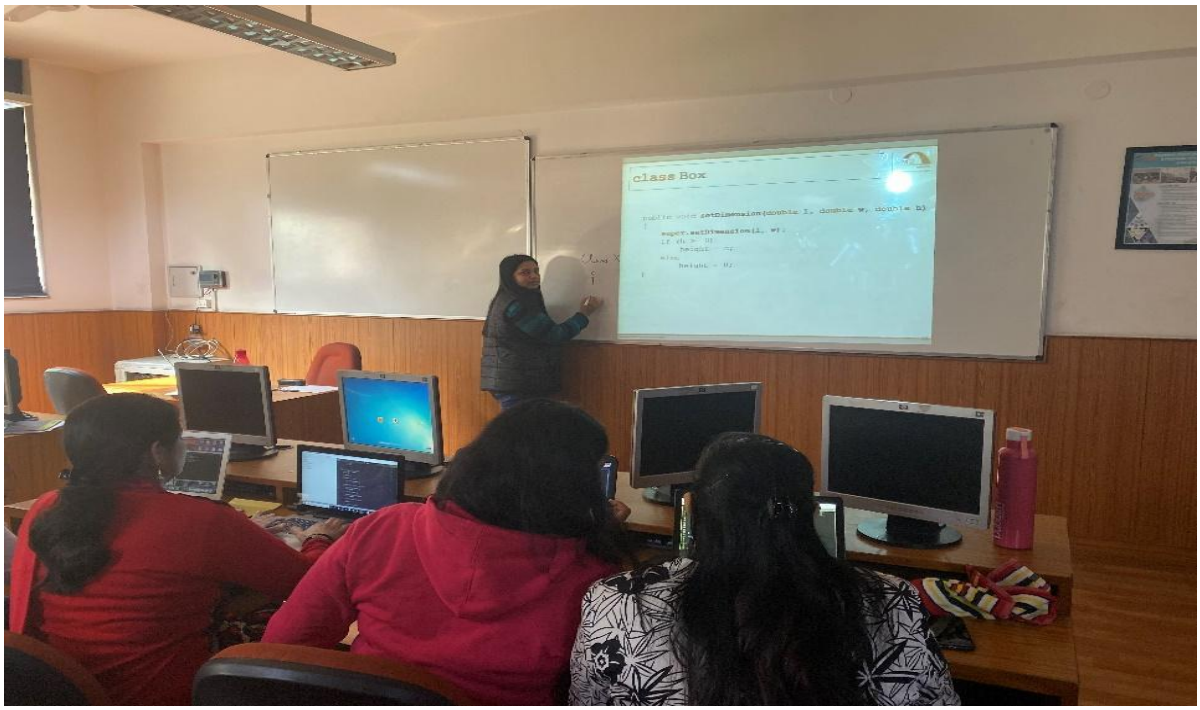
Day	Date	Timings	Topics

1	9th Dec' 2019	9.30am-12.30pm	Fundamentals of Object-oriented Programming, Sample java program, Quiz on Data types and control structures, Arrays **In class: Practice Questions** **Before Class**: Java and sublime set up, read Data types and control structure material
2	10th Dec' 2019	9.30am-12.30pm	Introduction to classes, constructors, This, static and final keyword, Method overloading, Arrays of objects, using objects as parameters, returning objects, Access control, Recursion, Nested and Inner classes, Command line arguments **In class: Practice Questions** **After class**: Assignment 1
3	11th Dec' 2019	9.30am-12.30pm	**Strings** String Manipulation and functions in Strings **In class: Practice Questions** **After Class:** Assignment 2
4	12th Dec' 2019	9.30am-12.30pm	**Inheritance** Introduction, Superclass, Subclass, Protected members, Constructors in subclasses **In class: Practice Questions** **After Class:** Assignment 3
5	17th Dec' 2019	2pm-4pm	**Polymorphism** Polymorphism, Overriding, Final, methods and classes, Abstract classes **In class: Practice Questions** **After class:** Mini Project

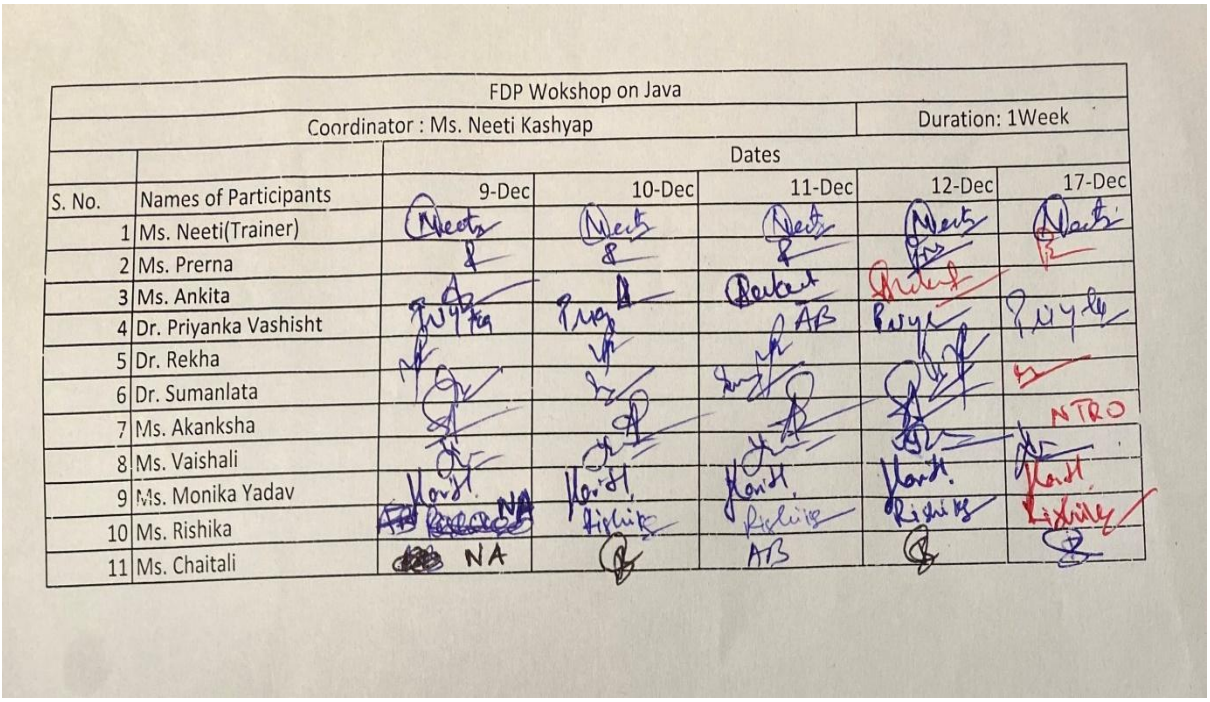
- **5. Participant List**

1. Ms. Neeti (Trainer)
2. Dr. Rekha
3. Dr. Suman
4. Ms. Vaishali
5. Ms. Monika
6. Ms. Ankita
7. Ms. Chaitali
8. Ms. Akanksha
9. Ms. Rishika
10. Ms. Prerna
11. Dr. Priyanka

- **6. Glimpses**



7. Attendance Sheet



FDP Wokshop on Java

Coordinator : Ms. Neeti Kashyap — Duration: 1Week

S. No.	Names of Participants	Dates				
		9-Dec	10-Dec	11-Dec	12-Dec	17-Dec
1	Ms. Neeti(Trainer)					
2	Ms. Prerna					
3	Ms. Ankita					
4	Dr. Priyanka Vashisht					
5	Dr. Rekha					
6	Dr. Sumanlata					
7	Ms. Akanksha					
8	Ms. Vaishali					
9	Ms. Monika Yadav					
10	Ms. Rishika					
11	Ms. Chaitali	NA				

Ms. Neeti Kashyap
Coordinator-FDP

Dr. Kavita Khanna
HoD CSE/IT

FDP ON

Web Development Technologies

A Report

Dec 18, 2019 – Jan 04, 2020

SCHOOL OF ENGINEERING AND TECHNOLOGY
THE NORTHCAP UNIVERSITY, GURUGRAM-122017

Table of Contents

Table of Contents 2

1. Objectives 3
2. Outcomes 3
3. Resource person 3
4. Participants 3
5. Venue and schedule 3
6. Glimpses 5
7. Attendance Sheet 5

FACULTY DEVELOPMENT PROGRAM

Department of Computer Science & Engineering

1. **Objectives**

Web development technologies are used to design web pages and web based applications. The course is a part of the specialized courses which we offer to our 'Full Stack Development' specialization students. The FDP is required to make the faculty ready to teach the specialized courses of this specialization. This FDP also provide a hands-on practice on various designing problem which is required to conduct the lab sessions of the course. This FDP will help the trainees in various other aspects like sharing of development toolkit setup, installation and real time challenges. The FDP was conducted between 18-Dec'19 to 24-Dec'19 and then 02-Jan'20 to 04-Jan'20.

2. **Outcomes**

- Readiness for Progressive Web Apps1 and interactive web applications courses
- Hands-on to develop the projects as per industry standards.
- Learning for Lab/ practical sessions problems and solutions
- FDP has led the faculty to gain ideas on to the various styles for web based applications and also the possibility of various projects in the field.

3. **Resource person**

Dr. Sandeep Singh
Asst. Prof. (CSE)

4. **Participants**

1. Dr. Sandeep (Trainer)
2. Dr. Suman
3. Ms. Neeti
4. Ms. Vaishali
5. Ms. Monika Yadav
6. Ms. Priyanka

5. **Venue and schedule**

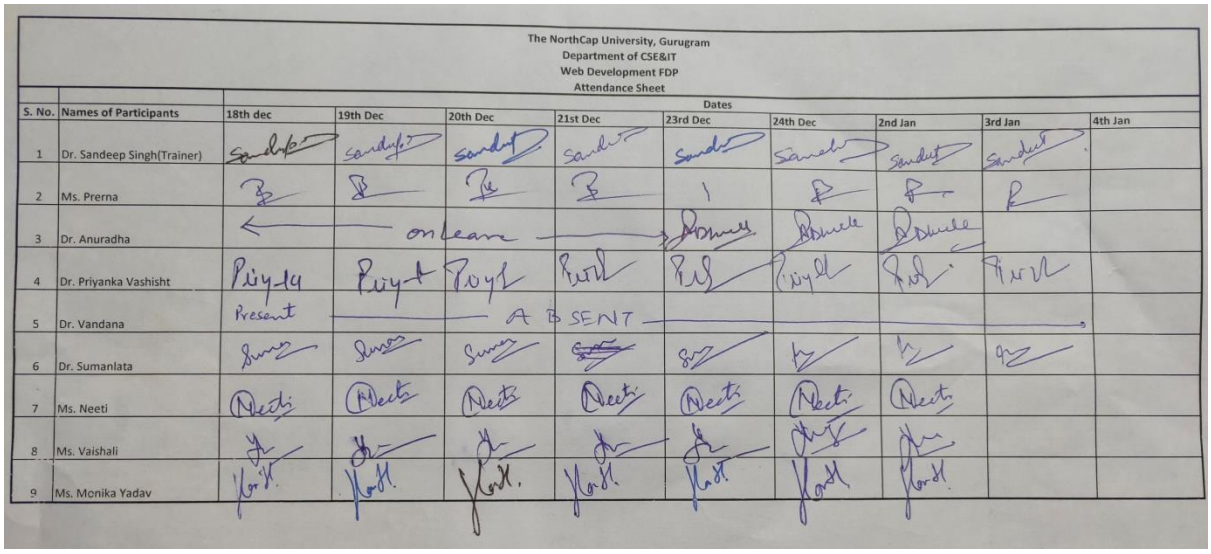
Room No: 140

Day	Date	Timings	Topics
1.	18th Dec'19	2:00pm-4:00pm	• Introduction to HTML • Basic Tags and Guidelines • W3C Validations

			• HTML Tags and Their Behaviour • List and Tables, Forms
2.	19th Dec‘19	2:00pm-4:00pm	• CSS • Ways to Implement CSS • ID and Class • Pseudo Classes • Nth Child Selectors
3.	20th Dec‘19	2:00pm-4:00pm	• Backgrounds and Borders • Floating and Clear • Positions • Display • Pseudo Elements • HTML5 New Tags (Semantics vs. Non-Semantics)
4.	21st Dec‘19	9.30am-1:30pm	• HTML 5 Form Validations and Attributes • Multimedia – Audio and Video • Local storage, Session Storage • Geo location • Canvas & SVG • Drag and Drop
5.	23rd Dec‘19	2:00pm-4:00pm	• Introduction to CSS 3 • Changes in CSS 3 • Selectors • Rounded Borders • Shadow • 2D + 3D Transformations
6.	24th Dec‘19	2:00pm-4:00pm	• Animations and Key frames • Making Different Type of 2D And 3D Animations • Column Layout • Flex box • Media Queries, Building RWD Shopping App, Live on Cloud, Test on Mobile, Tablet, Desktop
7.	2nd Jan‘20	9.30am-4:00pm	• Introduction to Jquery • Selectors and Events • Effects and Animation • DOM Traversing • AJAX with Jquery • JavaScript Basics, Internal Architecture • DOM Manipulation • Functional JavaScript
8.	3rd Jan‘20	9.30am-4:00pm	• MVC Framework • Web Application Development – CRUD App
9.	4th Jan‘20	9.30am-1:30pm	• CRUD App

6. Glimpses

7. Attendance



The NorthCap University, Gurugram
Department of CSE&IT
Web Development FDP
Attendance Sheet

S. No.	Names of Participants	Dates								
		18th dec	19th Dec	20th Dec	21st Dec	23rd Dec	24th Dec	2nd Jan	3rd Jan	4th Jan
1	Dr. Sandeep Singh(Trainer)									
2	Ms. Prerna									
3	Dr. Anuradha	←	on leave			→				
4	Dr. Priyanka Vashisht									
5	Dr. Vandana	Present		ABSENT						→
6	Dr. Sumanlata									
7	Ms. Neeti									
8	Ms. Vaishali									
9	Ms. Monika Yadav									

FDP REPORT

ON

Graphic Design

Dec 11, 2019 – Dec 16, 2019

SCHOOL OF ENGINEERING AND TECHNOLOGY

THE NORTHCAP UNIVERSITY, GURUGRAM-122017

Table of Contents

Contents

1. OBJECTIVES 3
2. OUTCOMES 3
3. RESOURCE PERSON 3
4. VENUE AND SCHEDULE 3
5 GLIMPSES……..…5
6. PARTICIPANT LIST……6
6. ATTENDANCE SHEET……..7

FACULTY DEVELOPMENT PROGRAM

Department of Computer Science & Engineering

1. OBJECTIVES

As a part of our endeavour to deliver only the best-in-class industry oriented and future ready teaching for the students we need to train our students in this field. In order to train the students, the faculty should have appropriate knowledge, exposure and hands on experience on the subject. The purpose of this FDP is to expose Graphic Designing basics tools to CSE faculty members. This will provide project-based training that enables the faculty to effectively take UI & UX Design course.

With this aim in mind, the Department of Computer Science and Engineering conducted a five days faculty development program (FDP) on Graphic Design from December 11, 2019 – December 16, 2019.

2. OUTCOMES

- Readiness for UI & UX Design course
- To develop learning basics of the most popular tool in the world – Photoshop with a clear understanding of how to work with BOTH print and web projects in Photoshop.
- It provided hands on experience on Creative Visualization, Typography, Designing graphics for websites and UI/UX concepts.

3. RESOURCE PERSON

Ms. Nisha Arya
Industry Engagement Manager
Game Tech.AR, VR Specialization (Mentor)
(CSE)

4. VENUE AND SCHEDULE

Room No: 409N

SCHEDULE

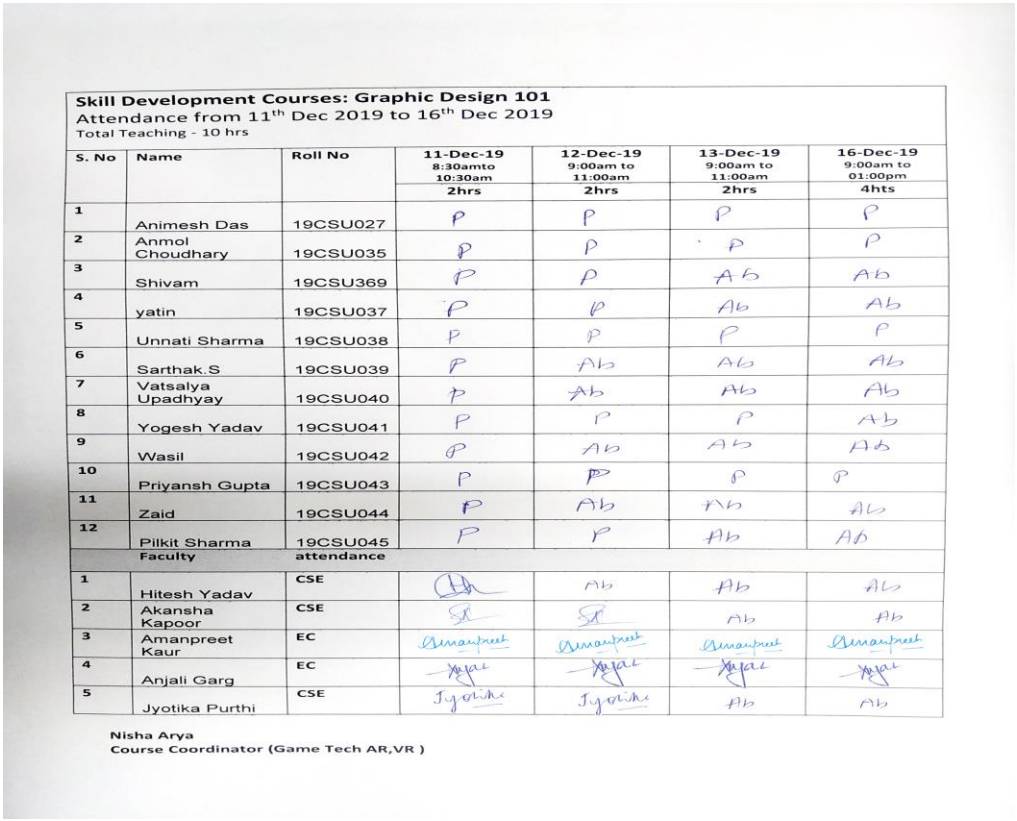
Day	Date	Timings	Topics
1	11th Dec' 2019	8.30am-10.30pm	**Basics of Drawing (Shapes/ colour)** • Student will be requiring Drawing book / Pencils / colour Pencils / watercolours for class. They will learn how to draw the basic shapes to complex shape (like - Using the Cylinder to Draw Figures). • Colour Theory – Colour wheel / colour harmony / Light and Shadows (Medium Water Colour) / Colour schemes **In class: Hands-on drawing practice and color theory painting.** **Before Class**: Adobe Photoshop installation
2	12th Dec' 2019	9.00am-11.00pm	**Introduction to UI & UX design** • Elements and Design Principle and Introduction to Photoshop (How to Use Colour Theory to Balance Colours in Photoshop) • Adobe Photoshop - Basic Tools **In class: Project 1** **After class**: Assignment 1
3	13th Dec' 2019	9.00am-11.00pm	Adobe Photoshop Tools and Techniques • Adobe Photoshop - different File format / menu bar / option bar • Adobe Photoshop - Colour, Layers, Properties • Pick up any logo and change the colour scheme on drawing paper with colour • Change the Background of an Image and change colour. **In class: Project 2** **After Class:** Assignment 2
4- 5	16th Dec' 2019	9.00am-01.00pm	**Adobe Photoshop - Create buttons / design / Text/ Effects / Filters / layer style**
			Project 3 – Final • Create a Logo • Create a poster of any Graphic Design boot camp poster • Create a web Interface of any product of your choice

5. Glimpses

6. Participated Faculties

1. Ms. Jyotika
2. Ms. Akanksha
3. Ms. Hitesh
4. Dr. Anjali(ECE)
5. Ms. Amanpreet(ECE)

7. Attendance Sheet



Skill Development Courses: Graphic Design 101
Attendance from 11th Dec 2019 to 16th Dec 2019
Total Teaching - 10 hrs

S. No	Name	Roll No	11-Dec-19 8:30amto 10:30am	12-Dec-19 9:00am to 11:00am	13-Dec-19 9:00am to 11:00am	16-Dec-19 9:00am to 01:00pm
			2hrs	2hrs	2hrs	4hts
1	Animesh Das	19CSU027	P	P	P	P
2	Anmol Choudhary	19CSU035	P	P	P	P
3	Shivam	19CSU369	P	P	Ab	Ab
4	yatin	19CSU037	P	P	Ab	Ab
5	Unnati Sharma	19CSU038	P	P	P	P
6	Sarthak.S	19CSU039	P	Ab	Ab	Ab
7	Vatsalya Upadhyay	19CSU040	P	Ab	Ab	Ab
8	Yogesh Yadav	19CSU041	P	P	P	Ab
9	Wasil	19CSU042	P	Ab	Ab	Ab
10	Priyansh Gupta	19CSU043	P	P	P	P
11	Zaid	19CSU044	P	Ab	Ab	Ab
12	Pilkit Sharma	19CSU045	P	P	Ab	Ab
	Faculty	attendance				
1	Hitesh Yadav	CSE		Ab	Ab	Ab
2	Akansha Kapoor	CSE			Ab	Ab
3	Amanpreet Kaur	EC	Amanpreet	Amanpreet	Amanpreet	Amanpreet
4	Anjali Garg	EC				
5	Jyotika Purthi	CSE	Jyotika	Jyotika	Ab	Ab

Nisha Arya
Course Coordinator (Game Tech AR,VR)

Ms. Nisha Arya
Mentor:
Game Tech.AR/VR (Specialization)
Industry Engagement Manager

Dr Kavita Khanna

HoD CSE/IT

FDP REPORT

ON

Data Engineering

Nov 1, 2019 – Dec 24, 2019

SCHOOL OF ENGINEERING AND TECHNOLOGY
THE NORTHCAP UNIVERSITY, GURUGRAM-122017

Table of Contents

Contents

1. OBJECTIVES 3
2. OUTCOMES 3
3. RESOURCE PERSON 3
4. VENUE AND SCHEDULE 3
5. PARTICIPANT LIST..... 6
5. GLIMPSES..... 5
6. Attendance Sheet..... 9

FACULTY DEVELOPMENT PROGRAM

Department of Computer Science & Engineering

1. OBJECTIVES

As a part of our endeavour to deliver only the best-in-class industry oriented and future ready teaching for the students we need to train our students in this field. In order to train the students, the faculty should have appropriate knowledge, exposure and hands on experience on the subject. The purpose of this FDP is to expose Data Engineering skills to CSE faculty members. This will provide project-based training that enables the faculty to effectively take Data Engineering course.

With this aim in mind the Department of Computer Science and Engineering conducted a 29 days faculty development program (FDP) on Data Engineering from November 1, 2019 – December 24, 2019.

2. OUTCOMES

- Readiness for Data Engineering course
- To develop the projects as per industry standards.
- It provided hands on experience on the development of Data engineering based projects and applications. This FDP has led the faculty to gain ideas on to the various google components used for data engineering and also the possibility of various projects in the field.

3. RESOURCE PERSON

Mr. Manuj Chandra
Lecturer at Mages Institute of Excellence

4. VENUE AND SCHEDULE

Room No:135

SCHEDULE

Day	Date	Timings	Topics

1	1 Nov' 2019	2.30pm-4.30pm	Introduction to Data Engineering **In class: Practice Questions** **Before Class**: Google cloud account ready
2	5 Nov' 2019	2.30pm-4.30pm	**Regex** Introduction to regex **In class: Practice Questions** **After class**: Drills
3	7 Nov' 2019	2.30pm-4.30pm	**Regex Intermediate** Character classes, backslash plague, alteration, quantifiers **In class: Practice Questions** **After Class:**
4	8 Nov' 2019	2.30pm-4.30pm	**Regex Intermediate** Greedy and non greedy quantifiers, boundary matchers, splitting, substitution **In class: Practice Questions** **After Class:**
5	12 Nov' 2019	2.30pm-4.30pm	**Regex Intermediate** Compilation flags, grouping, backreferencing, named groups **In class: Practice Questions** **After class:**
6	14 Nov' 2019	2.30pm-4.30pm	**Regex Intermediate** Non-capturing groups, look ahead, look behind **In class: Practice Questions** **After class:Drills**
7	15 Nov' 2019	2.30pm-4.30pm	**Google Cloud Platform (GCP)** Introduction **In class: Practice Questions** **After class:**
8	19 Nov' 2019	2.30pm-4.30pm	**GCP Fundamentals** Colab **In class: Practice Questions** **After class:**
9	21 Nov' 2019	2.30pm-4.30pm	**GCP Fundamentals** Setting up GCP **In class: Practice Questions** **After class:**
10	22 Nov' 2019	2.30pm-4.30pm	**GCP Fundamentals** Google Cloud Compute (part 1) **In class: Practice Questions** **After class:**
11	12 Nov' 2019	2.30pm-4.30pm	**GCP Fundamentals** Google Cloud Compute (part 2) **In class: Practice Questions** **After class:**

12	26 Nov' 2019	2.30pm-4.30pm	**GCP Fundamentals** Google Cloud Compute (part 3) **In class: Practice Questions** **After class:**
13	28 Nov' 2019	2.30pm-4.30pm	**GCP Fundamentals** Google Cloud Storage (part 1) **In class: Practice Questions** **After class:**
14	29 Nov' 2019	2.30pm-4.30pm	**GCP Fundamentals** Google Cloud Storage (part 2) **In class: Practice Questions** **After class:**
15	3 Dec' 2019	2.30pm-4.30pm	**GCP Fundamentals** IAM **In class: Practice Questions** **After class:**
16	5 Dec' 2019	2.30pm-4.30pm	**GCP Fundamentals** Billing **In class: Practice Questions** **After class:**
17	6 Dec' 2019	2.30pm-4.30pm	**GCP Data Engineering** Intro to Data Engineering **In class: Practice Questions** **After class:**
18	9 Dec' 2019	1.30pm-4.30pm	**GCP Data Engineering** Bigquery and data warehouse **In class: Practice Questions** **After class:**
19	10 Dec' 2019	1.30pm-4.30pm	**GCP Data Engineering** Dataflow and Apache Beam **In class: Practice Questions** **After class:**
20	11 Dec' 2019	1.30pm-4.30pm	**GCP Data Engineering** Cloud Composer and Apache Airflow **In class: Capstone Project** **After class:**
21	12 Dec' 2019	1.30pm-4.30pm	**GCP Data Engineering** Preparing Data in Bigquery **In class: Practice Questions** **After class:**
22	13 Dec' 2019	1.30pm-4.30pm	**GCP Data Engineering** Cloud SQL **In class: Practice Questions** **After class:**
23	16 Dec' 2019	1.30pm-4.30pm	**GCP Data Engineering** Cloud Spanner **In class: Practice Questions** **After class:**

24	17 Dec' 2019	1.30pm-4.30pm	**GCP Data Engineering** Firestore **In class: Practice Questions** **After class:**
25	18 Dec' 2019	1.30pm-4.30pm	**GCP Data Engineering** Visualization with data **In class: Practice Questions** **After class:**
26	19 Dec' 2019	1.30pm-4.30pm	**GCP Data Engineering** Google Charts **In class: Practice Questions** **After class:**
27	20 Dec' 2019	1.30pm-4.30pm	**GCP Data Engineering** Advanced Bigquery 301 **In class: Practice Questions** **After class:**
28	23 Dec' 2019	1.30pm-4.30pm	**GCP Data Engineering** Fusion CDAP **In class: Practice Questions** **After class:**
29	24 Dec' 2019	1.30pm-4.30pm	**GCP Data Engineering** Data Warehouse Creation **In class: Practice Questions** **After class:Project on datawarehouse**

5. Participant List

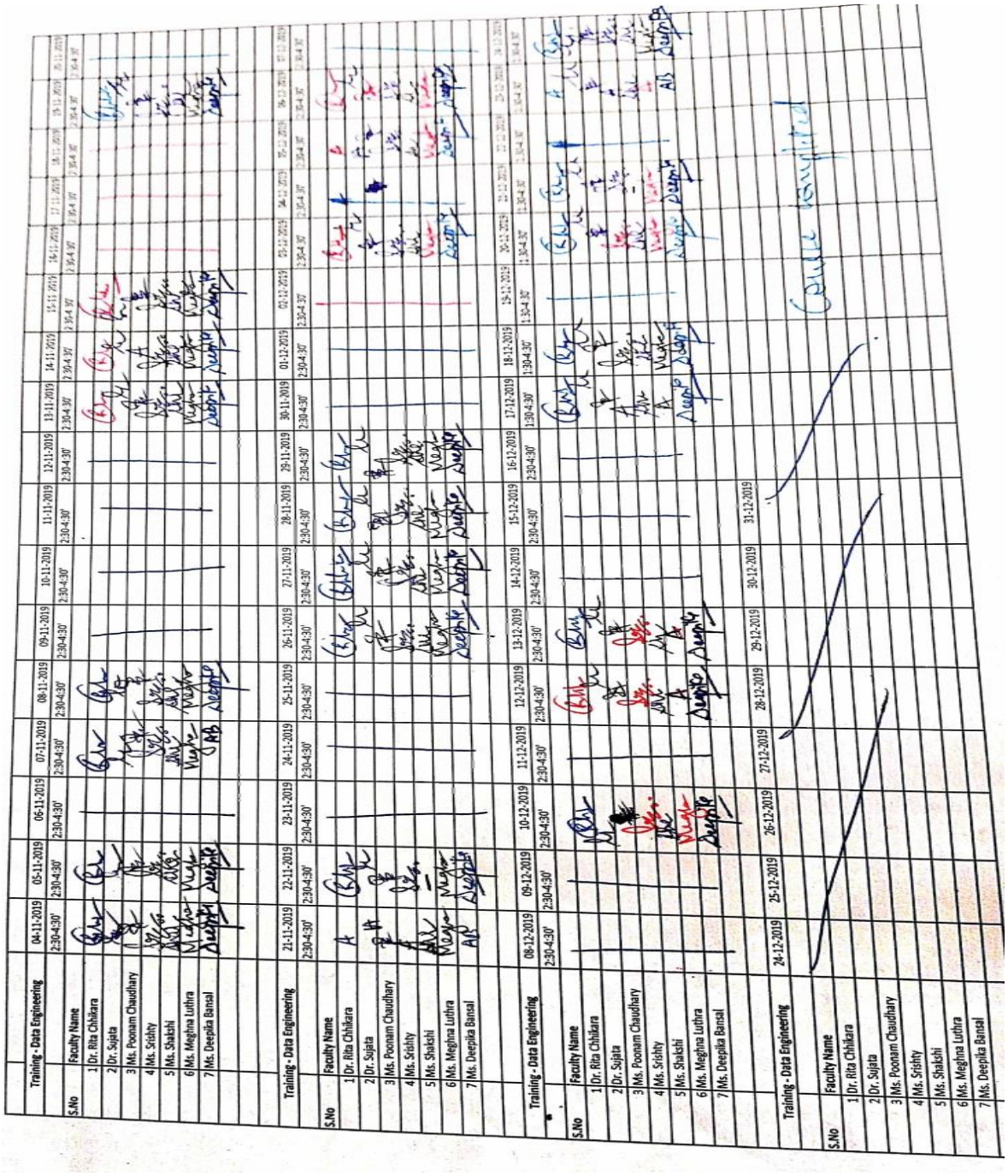
1. Dr. Rita Chitkara
2. Dr. Nitin Malik
3. Dr. Meghna Sharma
4. Dr. Shaveta
5. Dr. Sujata
6. Ms. Shakshi
7. Ms. Poonam Chaudhary
8. Ms. Srishti
9. Ms. Meghna Luthra

6. Glimpses

Mr. Manuj Chandra
Coordinator-FDP

Dr Kavita Khanna
HoD CSE/IT

6. Attendance Sheet



FDP REPORT

ON

Artificial Intelligence and Machine Learning

Dec 18, 2019 – Jan 4, 2020

SCHOOL OF ENGINEERING AND TECHNOLOGY
THE NORTHCAP UNIVERSITY, GURUGRAM-122017

Table of Contents

Contents

1. OBJECTIVES
2. OUTCOMES 3
3. RESOURCE PERSONS AND PARTICIPANTS 3
4. VENUE AND SCHEDULE 3
5. GLIMPSES..... 5
6. ATTENDANCE SHEET.....6

FACULTY DEVELOPMENT PROGRAM

Department of Computer Science & Engineering

1. OBJECTIVES

The FDP on Artificial Intelligence and Machine Learning included the analysis, design and development of methods for the pre-processing, feature engineering classification or description of patterns, objects, signals and processes.

The objective of the FDP is to introduce fundamentals of artificial intelligence, introduction to machine learning, deep learning and various methods of machine learning with real world applications. Overall, this FDP served to be a great platform for faculty and researchers to upgrade their knowledge in the area of AI, machine learning, pre-processing of datasets application of regression and classification techniques in real world.

With this aim in mind the Department of Computer Science and Engineering conducted s faculty development program (FDP) on Artificial Intelligence and Machine Learning from December 18, 2019 – January 4, 2020.

2. OUTCOMES

- Readiness for Introduction to Artificial intelligence and Machine Learning course
- To apply the machine learning techniques on real world data with all the phases incorporated.

3. RESOURCE PERSONS AND PARTICIPANTS

Resource
Dr Meghna Sharma
Ms Meghna Luthra
Faculty, Department of CSE
The NorthCap University

Participants
Data Science group faculty members, dept. of CSE and research scholars.

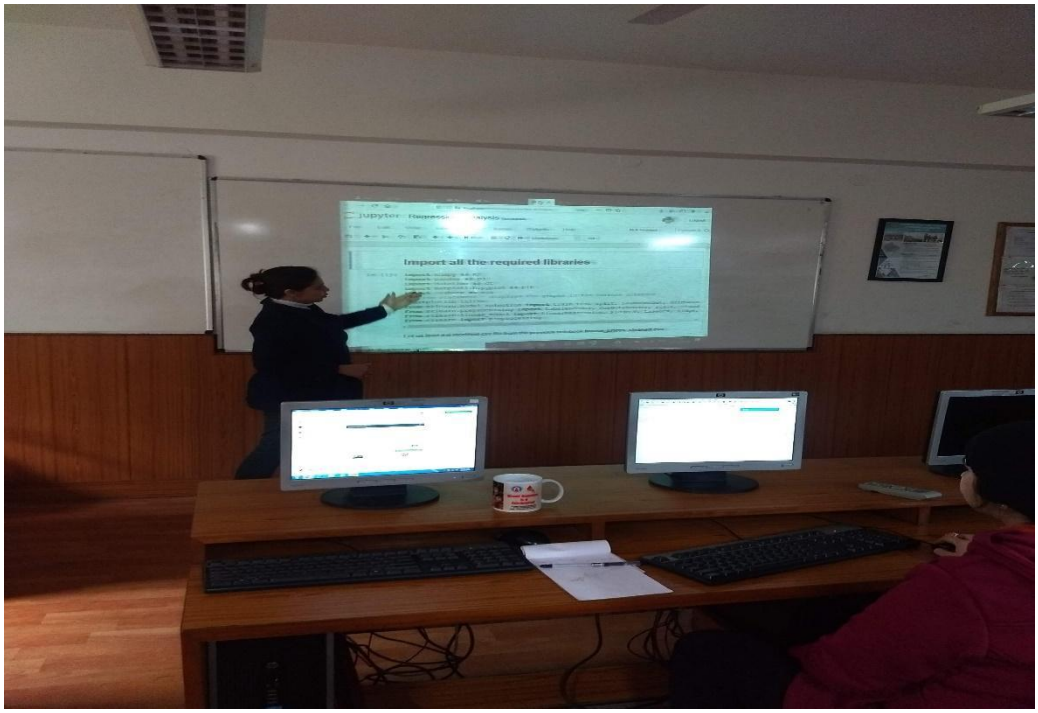
4. VENUE AND SCHEDULE

VENUE : Room 135

SCHEDULE:

Date	Time	Topic	Hours	Outcome
18-12-2019	9:00am-1:00pm	Introduction to AI&ML & Feature Engineering-I	4	Drill on Titanic Dataset Analysis
19-12-2019	9:30am-11:30am	Feature Engineering-II	2	Drill on Delhi Pollution dataset feature engineering
20-12-2019	9:30am-1:30am	Simple Linear Regression, Multiple Linear Regression	4	Drill on House Prices prediction and compare regression techniques
23-12-2019	9:30am-1:30am	Polynomial & Support Vector Regression	4	Mini Project on Prime Diabetes Dataset
24-12-2019	9:30am-1:30am	Decision Tree Regression, Random Forest Regression	4	Drill on classification techniques
02-01-2020	9:30am-1:30am	Introduction to Classification ,Logistic Regression	4	Drill on loan book classification
03-01-2020	9:30am-12:30am	KNN classification algo & SVM classification	3	Drill on loan book classification with KNN and SVM
04-01-2020	9:30am-12:30am	Naïve Bayes & Decision Tree Classification	3	Mini Project with comparative study of all classification techniques

5. GLIMPSES



6. Attendance Sheet

Name of Participant	12/18/2019	12/19/2019	12/20/2019	12/23/2019	12/24/2019	1/2/2020	1/3/2020	1/4/2020
Dr Shaveta Arora	yes	yes	no	yes	yes	yes	yes	yes
Dr Nitin Malik	yes	yes	yes	yes	yes	no	yes	yes
Dr Sujata	yes	yes	no	yes	yes	no	yes	yes
Ms Manvi	yes	yes	yes	yes	yes	yes	yes	yes
Ms Poonum	yes	yes	yes	yes	yes	yes	yes	yes
Ms Deepika Bansal	yes	yes	yes	yes	yes	yes	yes	yes

Dr Meghna Sharma
Assistant Professor (Selection Grade)
Dept. of CSE

Dr Kavita Khanna
HOD
Dept. of CSE

FDP REPORT

ON

Programming for Data Science

21st Dec, 2018 – 31st Jan , 2019

SCHOOL OF ENGINEERING AND TECHNOLOGY
THE NORTHCAP UNIVERSITY, GURUGRAM-122017

Table of Contents

Contents

1. OBJECTIVES 3
2. OUTCOMES 3
3. RESOURCE PERSON 3
4. VENUE AND SCHEDULE 3
5. GLIMPSES……5

FACULTY DEVELOPMENT PROGRAM

Department of Computer Science & Engineering

1. OBJECTIVES

As a part of our endeavour to deliver only the best-in-class industry oriented and future ready teaching for the students we need to train our students in this field. In order to train the students, the faculty should have appropriate knowledge, exposure and hands on experience on the subject. The purpose of this FDP is to impart Programming for Data Science skills to CSE faculty members/Phd Scholars. This will provide project-based training that enables the faculty to effectively take Programming for Data Science course.

With this aim in mind the Department of Computer Science and Engineering conducted a days faculty development program (FDP) on PFDS from Dec 31 , 2018 – Jan 30, 2019.

2. OUTCOMES

- Readiness for PFDS course
- To develop the projects as per industry standards.
- It provided hands on experience on the development of PFDs based projects and applications. This FDP has led the faculty to gain ideas on to the various google components used for data engineering and also the possibility of various projects in the field.

3. RESOURCE PERSON

Mr. Manuj Chandra
Lecturer at Mages Institute of Excellence

4. VENUE AND SCHEDULE

Room No:135

SCHEDULE

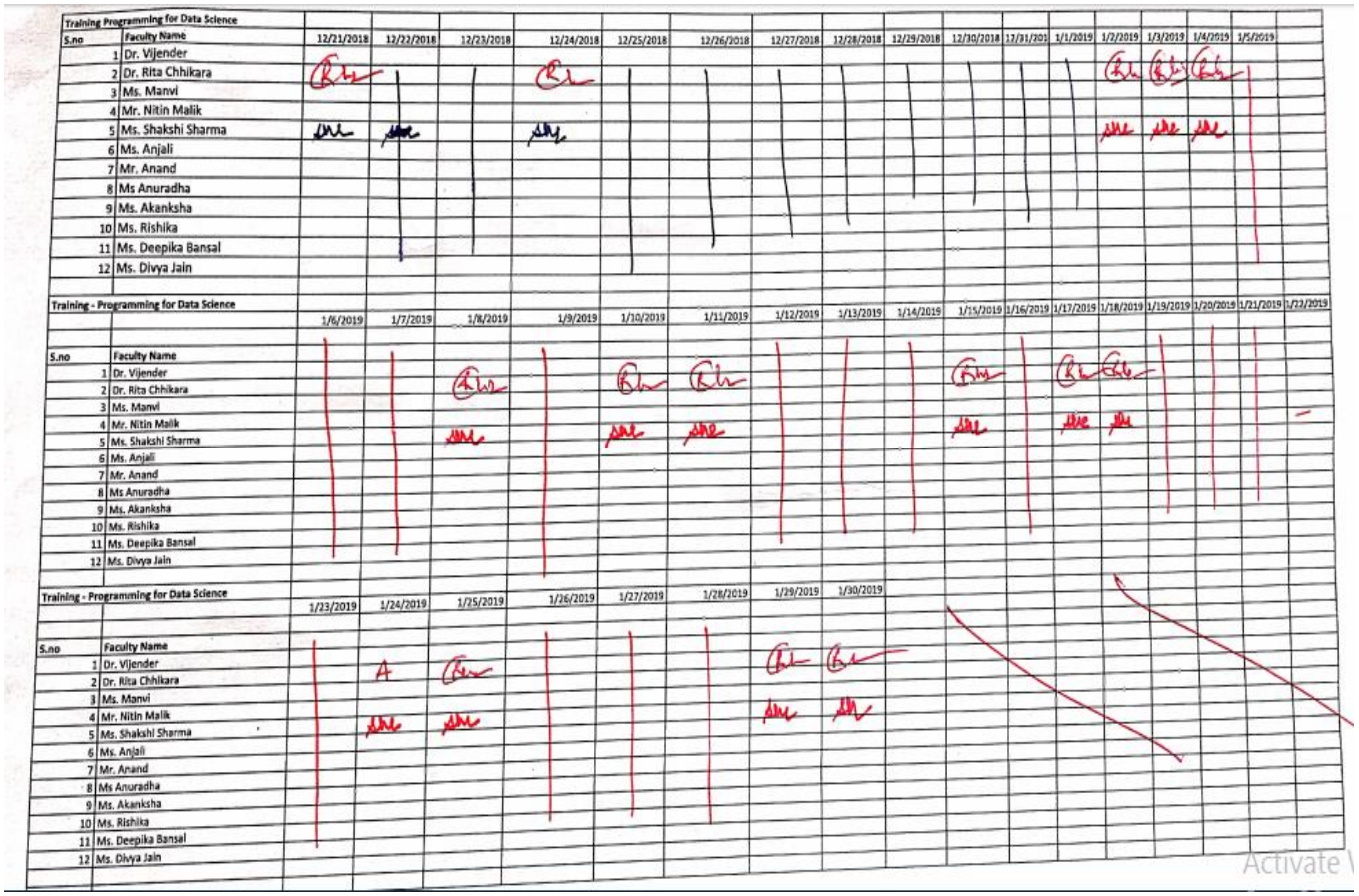
Day	Date	Timings	Topics
1	21 Dec' 2018	2.30pm-4.30pm	What Is Computer Science?, Computer Algorithms, Computer Hardware , Operating Systems—Bridging Software and Hardware, Limits of

			Integrated Circuits Technology: Moore's
2	24 Dec' 2018	2.30pm-4.30pm	Computer Software , Procedural vs. Object-Oriented Programming, Literals , Variables and Identifiers , Operators, Expressions and Data Types, Operator Precedence, Operator Associativity, What Is a Control Structure
3	2 Jan' 2019	2.30pm-4.30pm	Boolean Expressions (Conditions), Relational Operators, Membership Operators, Selection Control, Indentation in Python, Multi-Way Selection, Iterative Control, While Statement , Infinite loops, Definite vs. Indefinite Loops, Boolean Flags and Indefinite Loops
4	3 Jan' 2019	2.30pm-4.30pm	List Structures, Common List Operations, List Traversal, Lists (Sequences) in Python , Python List Type , Tuples , Sequences, Nested Lists, Iterating Over Lists (Sequences) in Python, For Loops , While Loops and Lists (Sequences), Assigning and Copying Lists , Dictionary Type in Python, Set Data Type
5	4 Jan' 2019	2.30pm-4.30pm	Program Routines , What Is a Function Routine? , Defining Functions, More on Functions , Calling Value-Returning Functions, Calling Non-Value-Returning Functions, Parameter Passing, Arguments in Python Default Arguments in Python
6	8 Jan' 2019	2.30pm-4.30pm	Variable Scope, What Is a Recursive Function, The Factorial Function, Recursive Problem Solving, 1 Thinking Recursively , MergeSort Recursive Algorithm, Iteration vs. Recursion, Tower of Hanoi , Module Specification , Top-Down Design, Developing a Modular Design of the Calendar Year Program
7	10 Jan' 2019	2.30pm-4.30pm	Specification of the Calendar Year Program Modules, What Is an Object?, Object References, What Is Object-Oriented Programming? , What Is a Class? , Three Fundamental Features of Object-Oriented Programming ,

			Encapsulation , Defining Classes in Python , Inheritance , Defining Subclasses in Python
8	11 Jan' 2019	2.30pm-4.30pm	Polymorphism , The Use of Polymorphism, Numpy - Array generation from Uniform distribution, Random array generation, reshaping, maximum and minimum, reshaping, Arithmetic operations, Mathematical functions, Bracket Indexing and Selection
9	15 Jan' 2019	2.30pm-4.30pm	Broadcasting, Indexing a 2D array (matrices), Selection, Creating a Series - from lists, arrays and dictionaries, Storing data in series from intrinsic sources, Differences from numpy array, Using an Index, Creating DataFrames
10	17 Jan' 2019	2.30pm-4.30pm	Selection and Indexing, Creating a new column, Removing Columns, Selecting Rows, Selecting subset of rows and columns, Filtering,, Manipulating Index, Multi-Index and Index Hierarchy, Imputation, Grouping and aggregation, Merging, Joining, Concatenation, Info on Unique Values, Selecting Data
11	18 Jan' 2019	2.30pm-4.30pm	Applying Functions, Get column and index names, Sorting and Ordering a DataFrame, Find Null Values or Check for Null Values, Reading data from csv, txt, excel, web.
12	24 Jan' 2019	2.30pm-4.30pm	Installing and setting up visualization libraries, Procedural methodology of visualization creation ,Oops methodology of visualization creation, Canvas and Axes, Subplots
13	25 Jan' 2019	2.30pm-4.30pm	Figure size, aspect ratio and DPI, Saving figures, Legends, labels and titles, Setting colors, linewidths, linetypes, Line and marker styles, Plot ranges, Common plots – scatter, histogram, boxplot, Logarithmic scale, Placement of ticks and custom tick labels, Pandas Viz, Style Sheets
14	29 Jan' 2019	2.30pm-4.30pm	Plot type, Area, Barplots, Histograms, Line Plots, Scatter Plots, BoxPlots, Hexagonal Bin Plot, Kernel Density Estimation plot (KDE), Distribution

			Plots, jointplot, pairplot, rugplot, kdeplot, Categorical Data Plots, barplot and countplot, countplot
15	30 Jan' 2019	2.30pm-4.30pm	Boxplot VS violinplot, stripplot and swarmplot, Combining Categorical Plots, factorplot, Matrix Plots, Heatmap, clustermap, Regression Plots, Grids, PairGrid, pairplot, Facet Grid, JointGrid, Style and Color

Attendance Sheet



Dr. Rita Chhikara
Coordinator-FDP

Dr. Kavita Khanna
HoD CSE/IT

FDP REPORT

ON

Digital Forensics

Dec 10, 2019 – Dec 19, 2019

SCHOOL OF ENGINEERING AND TECHNOLOGY
THE NORTHCAP UNIVERSITY, GURUGRAM-122017

Table of Contents

Contents

1. OBJECTIVES 3
2. OUTCOMES 3
3. RESOURCE PERSON 3
4. VENUE AND SCHEDULE 3
5. GLIMPSES 5

FACULTY DEVELOPMENT PROGRAM

Department of Computer Science & Engineering

1. OBJECTIVES

Digital Forensics can be used in data breaches involving theft of corporate data including corporate and consumer records. It can help uncover critical information and support the prosecution of the attacker and is impacting every aspect of society including finance, healthcare, government, education, arts and entertainment. The objective of this workshop is to upskill the faculty with appropriate knowledge, exposure and hands on experience on the subject. The purpose of this FDP is to provide digital forensics fundamentals to CSE faculty members. This will provide project-based training that enables the faculty to effectively take Digital Forensics course.

With this aim in mind the Department of Computer Science and Engineering conducted a 10 days faculty development program (FDP) on Digital Forensics from December 10, 2019 – December 19, 2019.

2. OUTCOMES

- Readiness for Digital Forensics course
- It provided hands on experience on the several case studies of Digital Forensics. This FDP has led the faculty to gain ideas on to the various domains of forensics including Windows Forensics, Linux Forensics, Memory and Network Forensics.

3. RESOURCE PERSON

Dr. Prachi, Associate Professor, CSE
Mr. Sumit, Assistant Professor, CSE

4. VENUE AND SCHEDULE

Room No: 140/133

SCHEDULE

Day	Date	Timings	Topics
1	10th Dec' 2019	10am-1pm	Introduction to Digital Forensics, Windows File System In class: Recovered file from MFT

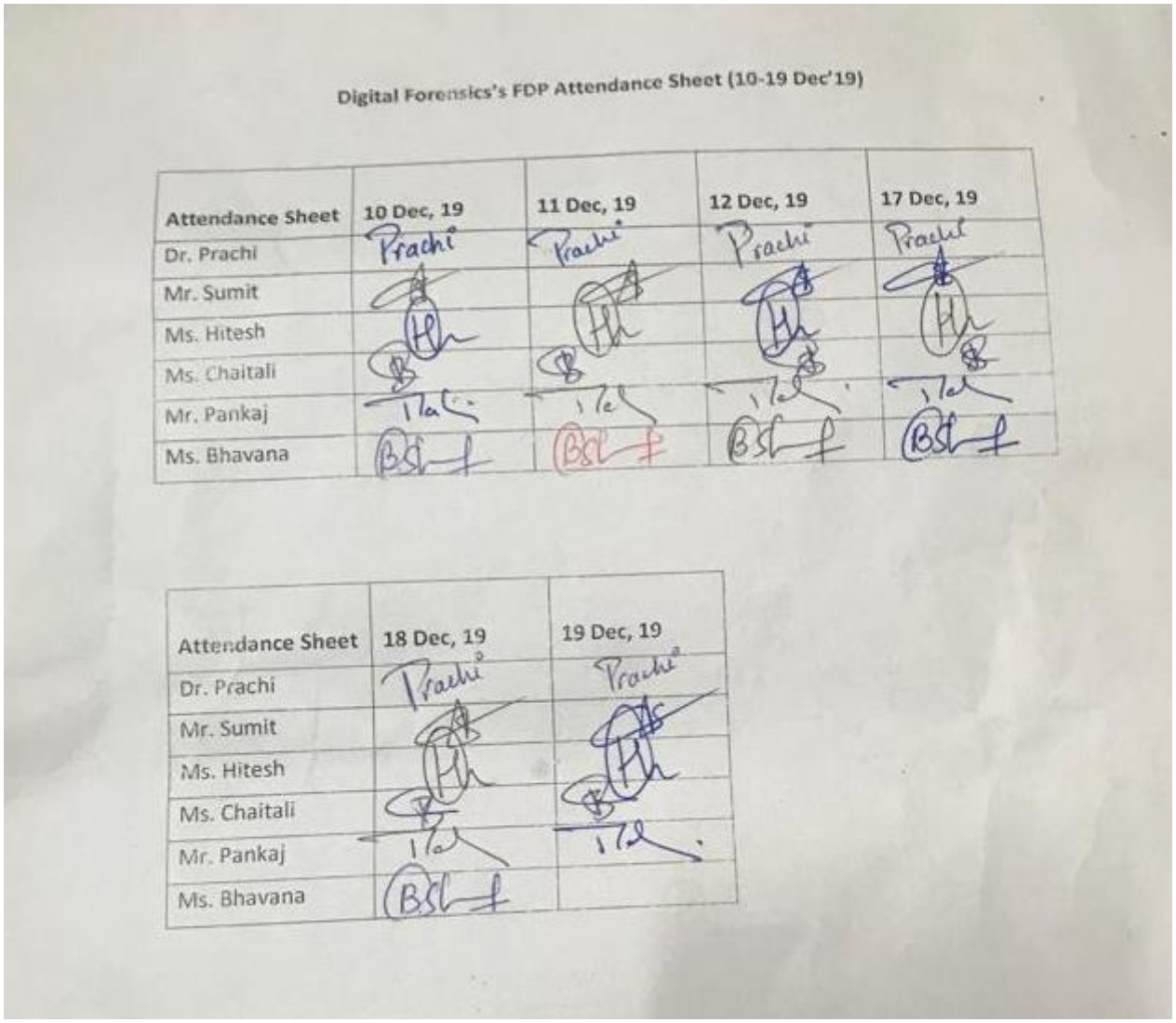
			using FTK Imager
2	11th Dec' 2019	10am-1pm	FTK Imager and FTK, Case Study- Washer, In class: Martha, Mantooth Case Study
3	12th Dec' 2019	10.30am-1.30pm	Registry and Registry Forensics In class: Mantooth, Camplet Case Study
4	17th Dec' 2019	11am-1pm	Memory Forensics & Malware Analysis In class: DC3DD, Guymager, Bulk Extractor, Cridex Malware & Stuxnet Malware case study
5	18th Dec' 2019	2pm-4pm	Autopsy Forensic Suite & Network Forensics using Xplico In class: Mantooth case study, Email & Timeline Analysis
6	19th Dec' 2019	10am-1pm	Email Forensics, Gmail Header- Manual Analysis

5. Participant List

1. Dr. Prachi (Trainer)
2. Mr. Sumit (Trainer)
3. Dr. Pankaj
4. Ms. Chaitali
5. Ms. Hitesh
6. Ms. Bhavna

6. Glimpses

7. Attendance Sheet



Digital Forensics's FDP Attendance Sheet (10-19 Dec'19)

Attendance Sheet	10 Dec, 19	11 Dec, 19	12 Dec, 19	17 Dec, 19
Dr. Prachi	Prachi	Prachi	Prachi	Prachi
Mr. Sumit				
Ms. Hitesh				
Ms. Chaitali				
Mr. Pankaj				
Ms. Bhavana				

Attendance Sheet	18 Dec, 19	19 Dec, 19
Dr. Prachi	Prachi	Prachi
Mr. Sumit		
Ms. Hitesh		
Ms. Chaitali		
Mr. Pankaj		
Ms. Bhavana		

Sumit

Kavita Khanna

Dr. Prachi, Mr. Sumit
Coordinator-FDP

Dr Kavita Khanna
HoD CSE/IT

1.

FDP REPORT

ON

Big Data Analytics

April 7, 2020 – June 29, 2020

SCHOOL OF ENGINEERING AND TECHNOLOGY

THE NORTHCAP UNIVERSITY, GURUGRAM-122017

Table of Contents

Contents

1. OBJECTIVES 3
2. OUTCOMES 3
3. RESOURCE PERSON 3
4. VENUE AND SCHEDULE 3
5. FACULTY COORDINATORS..... 4
6. LIST OF PARTICIPANTS..... 4
7. GLIMPSES..... 5
8. Annexure-I (Attendance Sheet)..... 6

Faculty Development Program

Department of Computer Science & Engineering

2. OBJECTIVES

As a part of our endeavour to deliver only the best-in-class industry oriented and future ready teaching for the students we need to train our students in this field. In order to train the students, the faculty should have appropriate knowledge, exposure and hands on experience on the subject. The purpose of this FDP is to expose Big Data Analytical skills to CSE faculty members. This will provide project-based training that enables the faculty to effectively take Big Data Analytics course.

With this aim in mind the Department of Computer Science and Engineering conducted a faculty development program (FDP) on Big Data Analytics from 7th April, 2020 to 29th June, 2020. It was a lecture series of two hours per day taken thrice a week. A total of 35 lectures have been conducted.

3. Outcome

- Readiness for Big Data Analytics course
- To develop the projects as per industry standards.
- It provided hands on experience on the development of Big Data based projects and applications. This FDP has led the faculty to gain ideas on DASK, DATAPROC, HDFS file system, MapReduce programming model, YARN components, Streaming, SPARK platform and STACKDRIVER/REDIS used for big data analytics and also the possibility of various projects in the field.

4. RESOURCE PERSON

Mr. Manuj Chandra
Lecturer at Mages Institute of Excellence

5. VENUE AND SCHEDULE

Three days per week (Tuesday, Thrusday and Friday)
Timings: 2:30-4:30 PM
Online classes through Microsoft Teams

Dates	**Timings**	**Topics Covered**
7th April, 2020-14th April, 2020	2.30pm-4.30pm	• Introduction to the Big Data ecosystem • Understand the V's of Big Data (volume, velocity, variety, veracity, valence, and value) • Recast big data problems as data science questions **In class: Practice Questions**

		Before Class: Google cloud account ready, Anaconda, PYTHON 3.0
16th April, 2020-24th April, 2020	2.30pm-4.30pm	DASK, DATAPROC and Data Engineering • Leverages multi-core CPUs • Dynamic Task Scheduling • Replicating clusters with a single-machine scheduler **In class: Practice Questions** **After class:**
28th April, 2020-7th May, 2020	2.30pm-4.30pm	**Streaming (Part-1)** • Stream Data Model and Architecture • Stream Computing - Sampling Data in a Stream • Filtering Streams • Counting Distinct Elements in a Stream **In class: Practice Questions** **After class: Case Studies**
8th May, 2020-21st May, 2020	2.30pm-4.30pm	**Streaming (Part-1I)** • Estimating Moments • Counting Oneness in a Window • Decaying Window **In class: Practice Questions/Case Studies** **After class:**
22nd May, 2020-26th May, 2020	2.30pm-4.30pm	**MapReduce** • Appying analytics on structured and unstructured data • Job Scheduling • Shuffle and Sort • Task Execution • Map Reduce Types • Map Reduce Features. **In class: Practice Questions** **After class:**
28th June, 2020-2nd June, 2020	2.30pm-4.30pm	**Hadoop (Part-I)** • Hadoop file system interfaces • Data flow • Data Ingest with Flume and Scoop and Hadoop archives **In class: Practice Questions** **After class:**
5th June, 2020 -12th June, 2020	2.30pm-4.30pm	**Hadoop (Part-II)** HIVE, HBASE , YARN and Big SQL **In class: Practice Questions** **After class:**
16th June, 2020-19th June, 2020	2.30pm-4.30pm	**SPARK (Part-I)** • Features of Apache Spark • Apache Spark Architecture • Spark Applications

		• Apache Spark Components • Different Data Sources and Formats in Spark. **In class: Practice Questions** **After class:**
23rd June, 2020-25th June	2.30pm-4.30pm	**SPARK (Part-II)** • Resilient Distributed Dataset (RDD) • Introduction of RDD • Features of RDD in Spark • RDD operations • RDD Transformation and RDD Action **In class: Practice Questions** **After class:**
26th June, 2020	2.30pm-4.30pm	**STACKDRIVER** • Stackdriver logging for PySpark • profiling gcloud spark-submit with stackdriver **In class: Practice Questions** **After class:**
29th June, 2020	2.30pm-4.30pm	**REDIS/Git Repository** • fastest database with reduced coding effort, increased throughput and reduced latency • Setting and uploading data on Git Repository **In class: Practice Questions** **After class:**

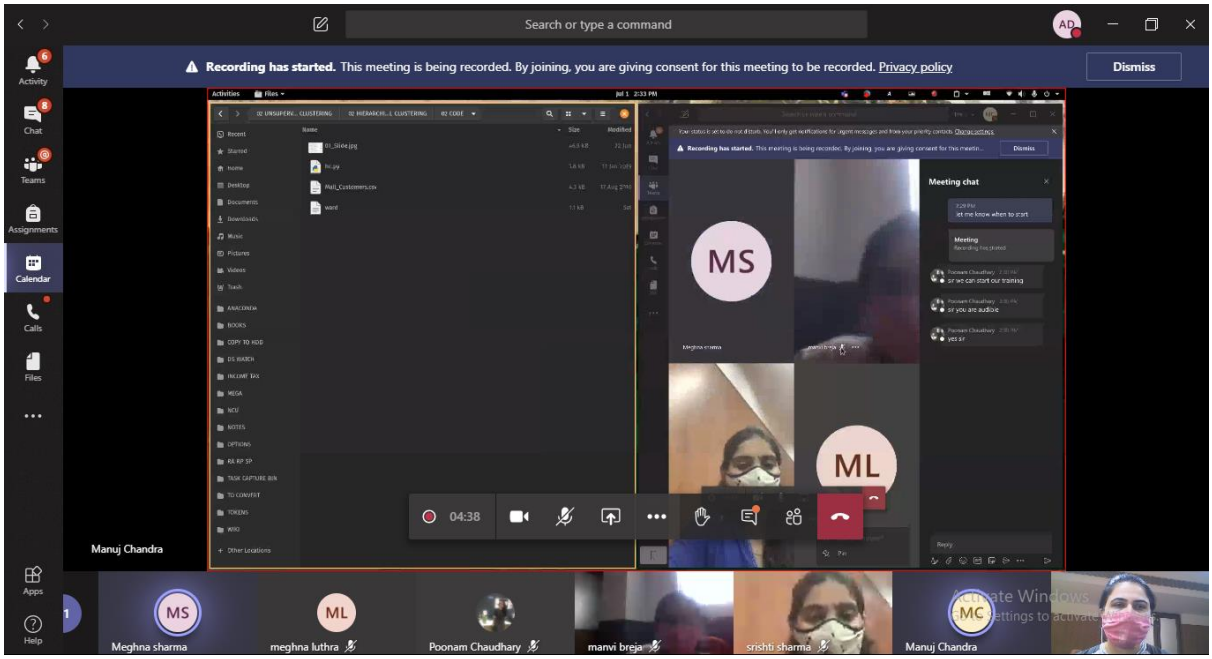
6. Faculty Coordinators

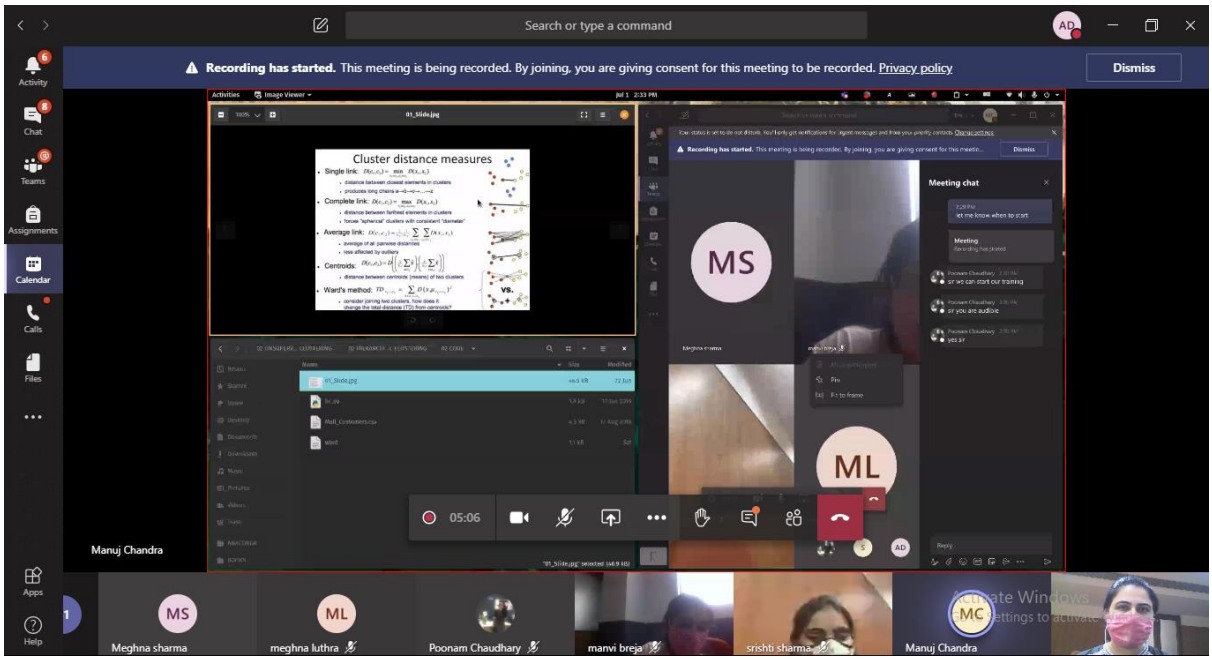
Dr. Rita Chhikara
Dr. Anuradha
Ms. Meghna Luthra

7. List of participants

1. Dr. Rita Chitkara
2. Dr. Sujata
3. Dr. Shaveta
4. Dr. Anuradha
5. Ms. Poonam Chaudhary
6. Ms. Srishti Sharma
7. Ms. Meghna Luthra
8. Ms. Manvi Bareja
9. Dr. Nitin Malik

7. Glimpses





Mr. Manuj Chandra
Coordinator-FDP

Dr Kavita Khanna
HoD CSE/IT

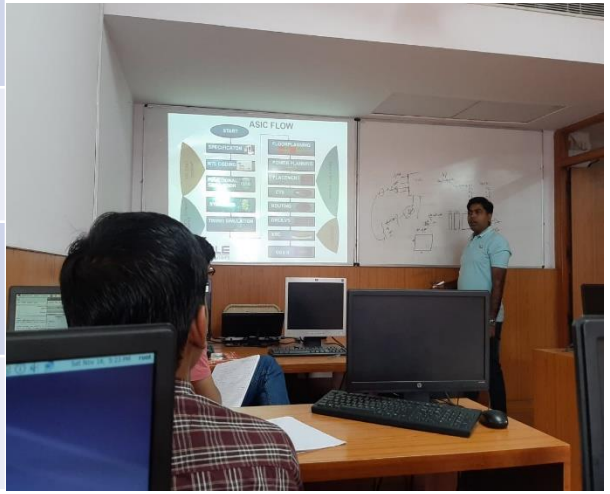
Technical Staff Development Program and Mentoring

Technical Staff DP

Technical Staff Development Program and Mentoring 2019

Technical staff mentoring done by senior faculty for
- Running the labs effectively
- Identifying training needs of technical staff

Date	Subject of training	Trainer
July 17,2019	IOT session 1	Mr. Pankaj Rakheja Dr Vandana Khanna
Sep 18, 2019	IOT session 2	Mr. Pankaj Rakheja Dr Vandana Khanna
Nov 14, 2019	CADENCE EDS	Mr. Deepak, Cadence
Nov 16, 2019	CADENCE EDS	Mr. Deepak, Cadence



Department of EECE
Technical Staff Development Program and Monitoring
Attendance sheet

Date	Subject of Training	Name of Trainer	Name of Attendee	Signature of Attendee
17.07.2019	IOT Session 1	Mr. Pankaj Rakheja/ Ms Vandana Khanna	Ajay Kumar	
			Deepak Saini	
			Baldev Singh	
			Nikhilesh	
			G S Anand	
			Pinaki Dutta	
18.09.2019	IOT Session 2	Mr. Pankaj Rakheja/ Ms Vandana Khanna	Ajay Kumar	
			Deepak Saini	
			Baldev Singh	
			Nikhilesh	
			G S Anand	
			Pinaki Dutta	
14.11.2019	Cadence EDS	Mr. Deepak Cadence	Baldev Singh	
			Nikhilesh	
			G S Anand	
			Pinaki Dutta	
			Ajay Kumar	
16.11.2019	Cadence EDS	Mr. Deepak Cadence	Baldev Singh	
			Nikhilesh	
			G S Anand	
			Pinaki Dutta	
			Ajay Kumar	

Faculty Coordinator: Anjali Garg

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RESEARCH METHODOLOGY WORKSHOP DECEMBER 18-24, 2019

ORGANISED BY

SCHOOL OF MANAGEMENT, THE NORTHCAP UNIVERSITY, GURUGRAM

ABOUT THE UNIVERSITY

The NorthCap University (NCU), rebranded itself on 31 August 2015 vide Haryana Government Ordinance No. 2 of 2015, followed by UGC Govt. of India notification dated 26 August 2015. NCU is a unitary university situated in Sector 23-A, Gurugram, Haryana and accredited by the National Assessment and Accreditation Council (NAAC) 2016-2021. It was founded in 1996 by Educate India Society as an Engineering Institute to provide higher education in Engineering and Management. The institute gained the status of a State Private university in the Academic Year 2009-10, under Act No. 25/2009 by the Legislature of State of Haryana and accorded UGC approval under Section 2(f) of the UGC Act 1956. In a span of a few years, the university has grown to be one of the foremost educational institutions in North India. As a testimony of this fact, we have been ranked as 'The University of the Year 2017' by the Higher Education Review and among the top 150 universities under National Institutional Ranking Framework (NIRF) by the Ministry of Human Resource Development, Government of India.

The University imparts education in undergraduate and postgraduate programs in engineering, management, sciences and law. It is recognized by various government and regulatory bodies for teaching and awarding degrees. The University is approved by the University Grants Commission (UGC) and recognized by the Bar Council of India (BCI). The University is a member of the Association of Indian Universities (AIU). Aside from being a Member of the American Society for Quality (I) pvt Ltd, it is accredited by Accreditation Services for International Colleges (ASIC), UK.

ABOUT THE WORKSHOP

Management Research is a systematic process of gathering, recording and analyzing data to facilitate the decision making process. It facilitates managerial decision making and reduces uncertainty. It is an amalgamation of techniques and procedures that helps the researcher to know and understand the phenomenon in focus. It connotes patient study and specific

investigation, wherein the researcher takes another, more careful look at data to discover all that can be known about the subject under study.

The workshop aims to explore the basic dimensions of research and the need for scholars to rethink the assumptions that underline historic paradigms of research in the field of management. It is designed to provide participants with hands on approach to conduct research. On completion of this workshop, participants would develop the skills to review the literature, develop hypotheses, frame research design, identify sampling techniques, comprehend the role and relevance of the tools for data collection and analysis, selection of appropriate parametric or non-parametric statistical method for analysing data, and report writing. The seven days workshop will be exposing the participants to theoretical input on quantitative research techniques, followed by the field work. The participants will be expected to choose a research topic and develop a research paper during the workshop. Research areas include all functional areas of management, administration and educational research. The workshop is intended to cover all relevant aspects of statistical data analysis starting from the very basics of Data preparation, Data cleaning to Advance statistical techniques including the theoretical aspects behind such techniques.

OBJECTIVES

- To expose the participants to basic and contemporary research methodology.
- To provide an opportunity to researchers/ research scholars to have hands-on experience on statistical software(s) such as SPSS and AMOS.
- To provide an opportunity to research scholars to present and discuss the problem(s) faced by them related to their own research work.
- To facilitate establishment of a network of researcher.

ELIGIBILITY

The registered Ph.D. students in social sciences in any Indian University/ Institute, M.Phil students and Faculty members are eligible to apply for the workshop.

FEES AND REGISTRATIONS

- The registration fee for the Workshop is Rs. 2,000 covering the cost of research material, lunch and refreshments for seven days payable by participants. In case of residential participants the institute will facilitate accommodation as per requirements of participants. The cost of which will be borne by the participants. Interested

candidates may send their duly filled in registration form to the workshop coordinators on or before 17th December, 2019. Registration form and brochure can be downloaded from the university website http://www.ncuindia.edu The candidates may send scanned copies of registration form and other documents by Email to conferencesom@ncuindia.edu , followed by hard copy.

Payment Options

- The participants have to submit the enclosed registration form duly completed along with payment in the form of Demand Draft to be drawn in favour of "The NorthCap University" Payable at "Gurugram".
- For online payment: Account Number 90481010005013, IFSC code: SYNB0009048, Bank Name: Syndicate Bank; Branch Name: Green Park, New Delhi.

ARRANGEMENTS

The workshop will be conducted at institute's premises. School of Management, The NorthCap University, HUDA Sector 23-A Gurugram – 122017, Gurugram, India. The institute will facilitate the lodging and boarding arrangements for the residential delegates as per their needs. The cost of which will be borne by the participants.

PROGRAM SCHEDULE

Day 1- Wednesday, December 18, 2019 Dr. Nitin Malik, Associate Professor, The North Cap University, Gurugram (CSE)

10:00-10:15 A.M.	Inaugural Ceremony (Saraswati Vandana and lamp Lightning)
10:15- 10:30 A.M.	Inaugural speech by Prof. Prem Vrat; Pro-Chancellor, Professor of Eminence & Chief Mentor, The North Cap University, Gurugram
10:30- 10:40 A.M.	Inaugural speech by Prof. H.B. Raghavendra; Vice-Chancellor, The North Cap University, Gurugram
10:40- 10:45 A.M.	Welcome address and program description by Prof. Hemant C Trivedi; Dean School Of Management, The North Cap University, Gurugram
10:45-01:00 P.M.	Basics of Research Methodology (Types of data, levels of measurement of data, data collection, sampling, measures of variation and position in data, data visualization).
01:00- 02:00 P.M.	Lunch
02:00- 04:00 P.M.	Probability Distribution, Confidence interval, hypothesis testing, correlation and regression.

Day 2- Thursday, December 19, 2019 Dr Swati Dhir, Assistant Professor, International Institute of Management, New Delhi

09:30-10:00 A.M.	Tea
10:00-01 00 P.M.	Use of Statistical tools using SPSS (Hypothesis testing, Normality, Reliability, One way ANOVA, Two way ANOVA, Exploratory Factor Analysis and cluster analysis)
01:00- 02:00 P.M.	Lunch
02:00- 04:00 P.M.	Regression Analysis

Day 3- Friday, December 20, 2019 Dr Sanjeev Mittal, Professor and DEAN, University School of Management Studies Guru Gobind Singh Indraprastha University

09:30 -10:00 A.M.	Tea
10:00-01:00 P.M	Use of Statistical tools using SPSS (Confirmatory Factor Analysis)
01:00- 02:00 P.M.	Lunch
02:00- 04:00 P.M.	Structural Equation Modelling with AMOS

Day 4- Saturday, December 21, 2019

09:00-10:30 A.M.	Structural Equation Modelling with AMOS
10:30-11:00 A.M.	Tea
11:00- 01:00 A.M.	Structural Equation Modelling with AMOS
01:00- 02:00 P.M.	Lunch

Day 5- Sunday, December 22, 2019

09:30-01 P.M.	Literature Review, Finalization of tool and data collection by Research groups
02:00- 04:00 P.M.	Preparation of draft Research Paper by Research groups

Day 6- Monday, December 23, 2019 Prof. Prem Vrat, Pro-Chancellor, Professor of Eminence & Chief Mentor, The NorthCap University, Gurugram

09:30-10:00 A.M.	Tea
10:00- 01:00 P.M.	Multi Criterion Decision Making
01:00- 02:00 P.M.	Lunch

Day 7- Tuesday, December 24, 2019 Dr. Shivani Bali¸ Associate Professor, Lal Bahadur Shastri Institute of Management, Dwarka, New Delhi

09:00-10:30 A.M.	Advanced Regression Modelling
10:30-11:00 A.M.	Tea
11:00- 01:00 A.M.	Advanced Regression Modelling
01:00- 02:00 P.M.	Lunch
02:00- 04:00 P.M.	Valedictory Session

For further details please contact

Dr. Swaranjeet Arora (Workshop Coordinator)
Mobile: 9826210409, Email: swaranjeetarora@ncuindia.edu

Dr Ruchi Nayyar (Workshop Coordinator)
Mobile: 9311822554, Email: ruchinayyar@ncuindia.edu

Dr. Preeti Chawla (Workshop Coordinator)
Mobile: 9818068412, Email: preetichawla@ncuindia.edu

Dr. Poonam Arora (Workshop Coordinator)
Mobile:9990434035, Email:poonamarora@ncuindia.edu

FDP on "Research Methodology"

Attendance Sheet- December 18-24, 2019

S NO	FACULTY NAME	18.12.2019	19.12.2019	20.12.2019	21.12.2019	22.12.2019	23.12.2019	24.12.2019
1	Aaditya Sharma							
2	Aditi							
3	AP Dash							
4	Arabindo							
5	Deborisha							
6	Deergha							
7	Dr Akshat							
8	Esha							
9	Jahanvi							
10	Mahima							
11	Nirupma							
12	Poonam							
13	Prashant Banerjee							
14	Preeti							
15	Priyanka							
16	Rekha							
17	Ruchi							
18	Shilpa							
19	Vineet							
20	Dr Swaranjeet Arora							
21	Dr Arjun Singh							

FACULTY DEVELOPMENT PROGRAM

ON

SMART AND SUSTAINABLE BUILDING MATERIALS

JUNE 31st to 7th, 2019

DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

THE NORTHCAP UNIVERSITY

TABLE OF CONTENTS

Sr No	Details	Page No
1	Objectives of the Program	**3**
2	Detailed Schedule	**4-5**
3	Day wise session details with photographs	**6-15**

DEPARTMENT OF CIVIL & ENVIRONMENTAL ENGINEERING
SCHOOL OF ENGINEERING AND TECHNOLOGY

FACULTY DEVELOPMENT PROGRAM
ON
"SMART AND SUSTAINABLE BUILDING MATERIALS"
June 2019

OBJECTIVES:

Continued employment and advancement for faculty members depends upon growth in teaching practices; thus, there is a need for faculty across all disciplines to understand best instructional practices and the strategies that develop effective teaching behaviours and skills.

Faculty members need to be prepared enough to cater to the changing needs of the system in order to deal with the rapid changes and shifting paradigms in education systems. Faculty Development Programmes (FDP) is designed to upgrade and rejuvenate faculty in their respective disciplines delivered by experts through a variety of methods and programs.

The 6 Day Faculty Development Program was planned with the objective to train and develop faculty members so that they can act as resource persons in their field of work. effectively and help in the following:

- Instructional development which emphasized the development of faculty skills involving instructional technology, small group teaching, media, courses, and curriculum design
- Professional development which emphasized the development of individual faculty members in their professional responsibilities as educators, researchers, and administrators
- Organizational development which emphasized the requirements, and main concerns of the institution
- Career development which emphasized faculty preparation for career advancement
- Personal development which stressed on life planning, interpersonal and communication skills of faculty members.

DAY WISE SCHEDULE FOR FACULTY DEVELOPMENT PROGRAM

<table>
<tr><th></th><th colspan="4">Morning</th><th>Break</th><th>Evening</th></tr>
<tr><th>Time</th><th>10:00-10:30</th><th>10:30-11:30 AM</th><th>11:30-12:00</th><th>12:00-01:00 PM</th><th>1:00-2:00</th><th>2:00-04:00 PM</th></tr>
<tr><td>31 May (Friday)</td><td colspan="4">Executive Development Program for Working Professionals of Rajdarbar Realty Ltd.</td><td>LUNCH BREAK</td><td>Executive Development Program for Working Professionals of Rajdarbar Realty Ltd.</td></tr>
<tr><td rowspan="2">1 June (Saturday)</td><td rowspan="2"></td><td rowspan="2">Reframing Leadership-Role of Teacher By Maj. Gen G G Dwivedi</td><td rowspan="2">Tea break</td><td rowspan="2"></td><td>LUNCH BREAK</td><td></td></tr>
<tr><td>LUNCH BREAK</td><td></td></tr>
<tr><td>2 June (Sunday)</td><td colspan="6">Sunday</td></tr>
<tr><td>3 June (Monday)</td><td></td><td colspan="3">NAAC Workshop by VC Seminar Hall</td><td>LUNCH BREAK</td><td>NAAC Workshop by VC Seminar Hall</td></tr>
<tr><td rowspan="2">4 June (Tuesday)</td><td></td><td colspan="3">NAAC Workshop by VC Seminar Hall</td><td rowspan="2">LUNCH BREAK</td><td rowspan="2">Executive Development Program for Working Professionals of Rajdarbar Realty Ltd.</td></tr>
<tr><td colspan="4">Executive Development Program for Working Professionals of Rajdarbar Realty Ltd.</td></tr>
<tr><td>5 June (Wednesday)</td><td colspan="6">Holiday (Idu'l Fitr)</td></tr>
<tr><td>6 June (Thursday)</td><td>Environment Day Celebration</td><td colspan="3">Session on Laboratory Quality Management System as per IS 17025 (latest edition) By: Mr. Shubham Bansal</td><td>LUNCH BREAK</td><td>Inspiration for a Teacher- Documentry Screening</td></tr>
<tr><td>7 June (Friday)</td><td colspan="4">Executive Development Program for Working Professionals of Rajdarbar Realty Ltd.</td><td>LUNCH BREAK</td><td>Executive Development Program for Working Professionals of Rajdarbar Realty Ltd.</td></tr>
<tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td></td><td colspan="6">NOTE: On June 4th during parallel sessions of NAAC & EDP, Only Faculty not involved as speaker in the session will attend NAAC workshop</td></tr>
</table>

**Detailed schedule of EDP has been attached herewith*

Detailed schedule of EDP

Friday, May 31, 2019

Time	Activity	Topic of lecture/ lab	Speaker
09.00-9.30	Registration at Reception		
09.30-10.00	Inauguration in seminar hall and Group photo		
10:00-10:30	High tea at café 10		
10.30-12.00	Session 1 RN 26A	Introduction to various conventional construction and building materials	Dr. Vaishali Sahu
	Session 2 RN 26A	Field problems – during and post construction and technical solutions	Dr. Archanaa Dongre
12.00-01.00	Session 3	Concrete Mix Design 1	Mr. Diptendu Roy
01.00 – 02.00	Lunch at café 10		
02:00 –03:00	Session 4	Concrete Mix Design 2 – Problem solving	Mr. Diptendu Roy
03:00 –04.00	Session 5	Smart and Sustainable Building Materials	Mr. Lokesh Choudhary
04.00-04.30	Campus visit and Refreshment		

Tuesday, June 4, 2019

Time	Activity	Topic of lecture/ lab	Speaker
09.30-10.30	Session 6- Survey Laboratory	Overview of surveying, methods used and terminologies	Dr. Vaishali Sahu
10.30-11.30	Session 7- Survey Laboratory	Lab session I, Levelling with dumpy level and theodolite I	Mr. Shubham Bansal and Staff
11.30-12.00	High tea at café 10		
12.00-01:30	Session 8- Survey Laboratory	Lab session II , Experiment continues	Mr. Shubham Bansal and Staff
01.30-02.30	Lunch at café 10		
02:30 –03:30	Design Thinking Activity		Mr. Lokesh Choudhary
03.30 - 04.30	Refreshment		Dr. Vaishali Sahu

Friday, June 7, 2019

Time	Activity	Topic of lecture/ lab	Speaker
09.30-11.00	Session 9 – Concrete laboratory	Tests on bricks, paver block, aggregate, cement	Mr. Lokesh Choudhary and staff
11.00-11.30	High tea at café 10		
11.30-12.30	Session 10	Prefabricated Structures	Mr. Diptendu Roy
12.30-01.30	Session 11	Labour handling and managing issues at site	Mr. Sahil Sachdeva, Partner, Levell upp consultancy and constructions
01.30-2.00	Lunch at café 10		
02.00-03.00	Session 12 - Concrete laboratory	Properties of fresh and hardened concrete and quality control - NDT	Mr. Diptendu Roy and staff
03:00 –03:45	Thought lab	Design thinking - Work life balance	Dr. Archanaa Dongre
03:45 –04:30	Certificate Distribution Ceremony and Refreshment		Dr. Vaishali Sahu

PROGRAM SUMMARY

DAY 1

A 3 days Executive Development program on "Smart and Sustainable Building Materials" was organized by the Department of Civil and Environmental Engineering dated 31st May, 4th and 7th June 2019. The EDP observed the participation of a total of twelve participants from Raj Darbar Realty Pvt. Ltd. from their different field offices located at Hisar, Agra and NCR region. The event began with the lamp lighting and a welcome address by Mr. Lokesh Choudhary, Coordinator, EDP and Faculty, Dept. of Civil & Environmental Engineering followed by a brief introductory remark by Prof. Prem Vrat, Pro Chancellor & Professor of Eminence, NCU and Prof. H.B. Raghavendra, Professor, CEE and Vice Chancellor, NCU. The remarks focused on the prime importance of the smart and sustainable practices in the avenue of Civil Engineering and the need to conduct such EDPs and equip skilled engineers working at the site with latest technology and materials. The Pro Chancellor and the Vice Chancellor congratulated the department for taking up such an initiative and seeing it to success.

The inaugural ceremony was concluded by presenting Ms. Purnima Bajpai, Manager & Coordinator (EDP), Raj Darbar Realty Pvt. Ltd. with a Feng Shui cure followed by a group photograph.

Session 1: Introduction to various Conventional Construction & Building Materials – Dr. Vaishali Sahu was the speaker for this session. She discussed various conventional building and construction materials like, bricks, cement, aggregates, concrete, glass, pozzolans etc. Further, categorization as per relevant Indian Specifications was briefed and merits and demerits of these materials were also explained. Application based on their characteristics and quality was discussed and ways to improve the quality was also briefed. She also highlighted the factors which influence strength of concrete and the various issues that can occur in fresh concrete. Further, solutions to handle and avoid such conditions at site were also discussed and it was suggested to take care of all these factors at site to ensure good quality concrete.

Session 2: Field problems – during and post construction and technical solutions – Dr. Archanaa Dongre was the speaker of the session. She explained about field problems on site. Various types of defects in building and their categories and solution discussed. Understanding cracks in walls, how to detect their nature and type were explained using simple experiments. Cracks due to settlement of foundation, cracks during earthquakes were also discussed. Damage range corresponding to crack width was discussed. Seepage problems, shrinkage, chemical reactions, epoxy treatment. Causes of defects and preventive measures were discussed like condensation, rising damp and flooding, service leaks, construction process, moisture in air.

Session ended with brief information about The NorthCap University.

Session 3: Concrete Mix Design & Problem Solving - The session was taken by Mr. Diptendu Roy, Asst. Professor, CEE. He stated that mix design of concrete is an art, since ages before the industrial revolution, mix design remained more of a nominal importance and varied from location to location. The session began with the introduction to various materials such as cement, aggregates, water, chemical admixtures, pozzolanic materials used in mixed design and their properties that affect proportioning of the mix. BIS method of mix design was extensively discussed and the involvement of the participants in sharing their field experiences made the session more interactive. The session was followed by hands on problem solving from the new IS 10262:2017 and guidelines for special mixes, high strength concrete, self-compacting concrete and mass concrete were also explored.

Session 4: An Insight on Innovative, Smart & Sustainable Building Materials & Practices in Civil Engineering - Mr. Lokesh Choudhary was the speaker of this session. The session started with raising the environmental, social and economic concerns that are being posed by the existing practices in Construction Industry. The session gradually advanced into identifying the need to go for Innovative, Smart and sustainable building materials and relook at the non-sustainable practices followed during execution at the site. The session gave participants an insight on sustainable and innovative materials like building units using recycled plastic, Waste based bricks, use of bagasse & RHA in wooden wall panels, Rubber modified asphalt for roads etc. The session ended with a mesmerizing thought in the participants knowing about the smart materials like Shape Memory Alloys, Magnetostrictive materials, Electrorheological fluids etc. which are steps towards sustainability.

DAY 2

Day 2 comprise of University Level FDP session by Gen. (Retd) Prof G G Dwivedi in Seminar Hall on the topic "Era of Disruption: Creative Thinking – Mindful Learning Reframing Academic Leadership". It was followed by High Tea in Reception area.

DAY 3

Day 3 comprise of University Level workshop for NAAC by Hon'ble Vice Chancellor in Café10 Basement. Faculty members and admin staff was divided in 22 groups and a briefing was given by Vice Chancellor Sir on filling SSR (Criteria 1 to 4). The basic aim was to familiarize all the members with the SSR of NAAC. Lunch and High Tea was arranged for participating members on University level.

DAY 4

Day 4 consisted of NAAC Worship as well as Executive Development Program at departmental level.

In NAAC workshop, presentations were given by each group on the criteria filled by the members on the previous day.

In EDP following three sessions were taken by faculty members.

Session 1: Overview of Surveying, Methods and Terminologies - Dr. Vaishali Sahu was the Speaker of the session. Dr. Sahu gave brief introduction of Levelling including concepts of calculating Reduced Level by various methods. Components of various surveying equipment such as Theodolite, Total Station and Dumpy Level and their working were introduced to the participants.

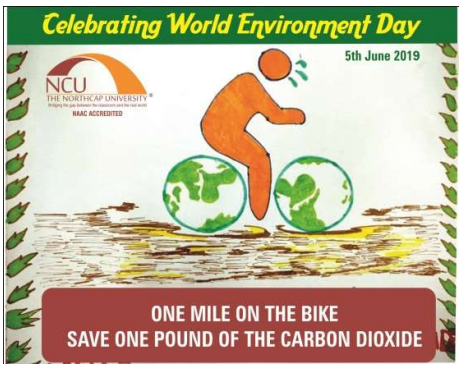
Session 2: Field Exercise – Levelling with Dumpy Level, Theodolite and Total Station - Mr. Shubham Bansal, Assistant Professor, C&EE took this session. Participants were taken in the field and were divided in the groups of four each to give hands on experience on surveying equipment and actual field problem. All the participants were instructed to work on all the three equipment and take the readings accordingly. After working on equipment, they were asked to draw profile diagram according to the readings taken by them. The session concluded with demonstration of one of the practical applications of Levelling to participants and they were instructed to work on the problem of Cut and Fill of Earthwork. Worksheets were provided to participants.

Session 3: Honing Design Thinking & Creativity: Activity Based Learning - Mr. Lokesh Choudhary was the speaker of this session. His talk insisted upon defining creativity and design thinking which is nothing but perceiving the world in new ways, to find hidden patterns, to make connections between seemingly unrelated phenomena, and to generate solutions. The sessions observed interesting team building activities which requires one to think out of the box. The feeling of the participants, before and after concluding a seemingly

difficult activity were recorded and was brought to a realization that no task is difficult even in work life and just requires dedication and hard cum smart work for accomplishment. The participants applauded and appreciated the final product they could make despite a feeling of fear for the task deep inside. Session concluded with a feeling of achievement among the participants.

DAY 5

Session 1: Environmental Day celebrations The Department of Civil & Environmental Engineering celebrated the World Environment day 2019 on 4th June 2018 with full enthusiasm and vigour. The event started with a welcome address highlighting the importance of the day by Mr. Lokesh Choudhary, Faculty, C&EE. The gathering conceived it well that the day encourages worldwide awareness and action for the protection of the environment. Dr. Archanaa Dongre, HOD, C&EE in her address shared regarding the theme for celebration this year which is tackling the effects of Air Pollution. She stressed upon practicing segregation of wet and dry wastes starting from our own homes. Followed by the address the faculty and the staff members took a pledge owing to environment and put a control on at least one of our activity which causes pollution and damage the environment and nature. The event ended by planting some saplings and contributes in the least possible manner by the HODs, faculty members and staff.



Session 2: Session on Laboratory Quality Management System as per IS 17025

A session was taken for the faculty members of Civil Department regarding laboratory quality management system. The session was useful from the point of view of accreditation of laboratories.

Session 3: Documentary Screening "Inspiration for a teacher" was showcased for the faculty members of department. Faculty found it really motivating and inspiring.

DAY 6

Session 1: Hands on Training on test of essential building materials: Cement, Bricks, Aggregates, Interlocking Paver Blocks- Mr. Lokesh Choudhary was the speaker of this session. The session was dedicated to material testing and precautions one should take while reporting the results of the test. It began with a brief overview by the speaker regarding the importance, procedures as per Indian Standard code of practice to test materials like Cement, Bricks, Interlocking Paver Blocks, Aggregates etc. The session concluded with a hands-on experiment of these essential building materials by the participants.

Session 2: Construction Practices with Prefabricated structures- Mr. Diptendu Roy was the speaker of the session. Prefabricated and modular structures are new age technology which enables faster erection of buildings and is a sustainable method of construction. As the Raj Darbar Realty is already using prefabricated modules for construction, the session was hugely beneficial to them. The session encompassed around major problems in constructing using modules such as transportation of modules, scaled lifting, maximum size of sections, post-tensioning, foam concreting and finishing. The session continued with fabrication of GFRG panels, GFRG panels are a step forward towards sustainability as it incorporates wastes from chemical and steel industries. Their erection and clauses laid down in BMTPC manual were also thrown light upon.

Session 3: Labour handling and managing issues at site: The session was taken up by an expert from industry Mr. Sahil Sachdeva, Partner (Levell Upp Consultancy & Construction). His talk began featuring the issues one face at the site. He discussed issues related to Water leakage, techniques to solve such problems, labor management, risk management and looking after basic amenities for the labor at the site. The session ended with a healthy panel discussion.

Session 4: Tests on Fresh and Hardened Concrete including Non-Destructive testing- It was a practical session, where the participants had hands on experience on conducting tests on fresh concrete as per IS codal provisions. The session was conducted by Mr. Diptendu Roy. Tests conducted in session 11 clarified tests performed on fresh concrete. The participants were made to make M30 grade mix for which the mix proportion was already made available to them. They made a mix for 3 cubes, conducted tests on workability such as slump cone, flow table test, compaction factor and their relevance to mix design were made clear. It was followed by testing of already prepared cube samples for compressive strength under CTM and rebound hammer test.

Session 5: Creating and Managing Work Life Balance through Meditation- The session was taken by Dr. Archanaa Dongre. It was a refreshing session at the end of the day. It began with a short ten minutes meditation session where she made the participants introspect and emphasized upon the benefits of meditation, sitting postures, asanas and positive thinking in one's professional life.

The Valediction & Certificate Distribution Ceremony followed the sessions and the event ended with vote of thanks presented by Dr. Vaishali Sahu, Organizing Secretary, EDP & Faculty, CEE.

Mr. Shubham Bansal
FDP Coordinator

Dr. Archanaa Dongre
HOD, C&EE

List of faculty and staff

S.No.	Name	Designation	Signature
1	Dr. Archanaa Dongre	Associate Prof, Head	
2	Dr. Vaishali Sahu	Asst Prof (selection scale)	
3	Mr. Lokesh Choudhary	Asst Prof (senior scale)	
4	Mr. Shubham Bansal	Asst Prof	
5	Mr. Diptendu Roy	Asst Prof	
6	Mr. Rajpal Singh	Lab Engineer	
7	Mr. Sohanlal	Lab Engineer	
8	Mr. Sanjay Sharma	Lab Technical	

Satnam Singh <satnamsingh@ncuindia.edu>

FDP ON "AWARENESS ON INVENTION & PATENT FILING" BY BOUDHIK VENTURES: SAT, 15 FEB 2020 AT 10 AM (MANDATORY FOR ALL FACULTY)

2 messages

Deepika Bishnoi <deepika@ncuindia.edu> Tue, Feb 4, 2020 at 2:49 PM
To: faculty <faculty@ncuindia.edu>
Cc: "Prof. Prem Vrat" <premvrat@ncuindia.edu>, "Dr. H B Raghavendra" <hbraghavendra@ncuindia.edu>, Bikram Mohanty <bikrammohanty@ncuindia.edu>, Archana Sarma <archanasarma@ncuindia.edu>, Unanza Gulzar <unanzagulzar@ncuindia.edu>, VC office <vcoffice@ncuindia.edu>, hod <hod@ncuindia.edu>

Dear All

You are invited to participate in a **University level** - **Faculty Development Program** on "**AWARENESS ON INVENTION & PATENT FILING" BY BOUDHIK VENTURES** on **Sat, 15 Feb 2020, 10 AM** onwards in Seminar Room.

It is **mandatory** for all faculty to attend the FDP and HODs to ensure 100% participation.Attendance shall be taken by the Admin dept.

Kindly bring a notepad/diary and a pen to the venue and be seated by 9:50 AM.

The detailed schedule is given below:

TOPIC : AWARENESS ON INVENTION & PATENT FILING

DATE : FEBRUARY 15, 2020, 10 AM

VENUE : SEMINAR ROOM

PROGRAMME SCHEDULE

TIME	ACTIVITY
10:00 AM-10:05 AM	Opening Address by Ms. Unanza Gulzar
10:00 AM – 10:10 AM	Welcome Address by the Hon'ble Vice Chancellor Prof. H. B Raghavendra
10:10AM – 10:30AM	Introduction to the FDP by Boudhik Ventures
10:30AM – 11:30AM	Technical Session I: Patent Inventions

11:30AM – 11:45AM	Tea Break for All faculty (At Reception)
11:45AM – 12:45PM	Technical Session II: Patent Searches
12:45PM – 1:30PM	Technical Session III: Patent Applications
1:30PM – 2:15PM	Technical Session IV: Examination and Commercialization of Patents
2:15 PM – 2:20PM	Dr. Archana Sarma Head, SOL Vote of Thanks

Warm Regards
Deepika
Dy Manager - HR
The NorthCap University
0124 - 4195261

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Deepika Bishnoi <deepika@ncuindia.edu> Fri, Feb 14, 2020 at 11:46 AM
To: faculty <faculty@ncuindia.edu>
Cc: "Prof. Prem Vrat" <premvrat@ncuindia.edu>, "Dr. H B Raghavendra" <hbraghavendra@ncuindia.edu>, Bikram Mohanty <bikrammohanty@ncuindia.edu>, Archana Sarma <archanasarma@ncuindia.edu>, Unanza Gulzar <unanzagulzar@ncuindia.edu>, VC office <vcoffice@ncuindia.edu>, hod <hod@ncuindia.edu>

Dear All,

You are invited to participate in a **University level** - **Faculty Development Program** on "**AWARENESS ON INVENTION & PATENT FILING" BY BOUDHIK VENTURES** on **Sat, 15 Feb 2020, 10 AM** onwards in Seminar Room.

List of Faculty Name: -

S.No	Faculty Name	15 Feb 2020
1	Dr. Rohit Singh Lather	P
2	Dr. Akanksha Mathur	P
3	Prof. Pramod Bhatia	P
4	Dr. Satnam Singh	P
5	Mr. Praveen Singh	P
6	Mr. Anmol Bhatia	P
7	Mr. Roshan Raman	P

2020-2021

FDP REPORT

ON

Enterprise Web Applications

July 06, 2020 – July 10, 2020

SCHOOL OF ENGINEERING AND TECHNOLOGY
THE NORTHCAP UNIVERSITY, GURUGRAM-122017

Table of Contents

Contents

1. OBJECTIVES 3
2. Expected Outcomes: 3
3. RESOURCE PERSON 4
4. VENUE AND SCHEDULE 4
5. Glimpses ..... **Error! Bookmark not defined.**

FACULTY DEVELOPMENT PROGRAM

Department of Computer Science & Engineering

1. OBJECTIVES

Objectives: The purpose of this FDP is to upskill the CSE faculty members in developing Java Enterprise Applications using different server-side technologies. This training includes advance topics of Java programming language such as Collections Framework, Multithreading, MVC design patterns, JEE, JDBC etc. with hands on practical drills for better understanding. The training has enabled the faculties to design and develop Java based interactive web applications using Java Enterprise Framework.

2. Expected Outcomes:

At the end of this FDP, Faculty should be able to

- Understand and apply the Type Hierarchy of Collections Framework and type safety features introduced in the Collections API
- Develop applications which can connect to a relational database and apply different SQL based operations
- Create Server-Side Web Application using the Web components of Java EE and use testing framework to create effective test cases

Books Recommended:

Textbooks:

- Bryan Basham, Kathy Sierra & Bert Bates, “Head First Servlets & JSP”, O'Reilly Media, 2nd Edition, 2009
- Dreamtech Press, “Core & Advanced Java Black Book”, Wiley India , 1st Edition, 2016
- Brian R Jackson, “Maven The Definitive Guide”, O’Reilly Media, 2nd Edition, 2015
- Sujoy Acharya, “Mastering Unit Testing using Mockito and Junit”, Pact Publications, 1st Edition, 2014

Reference Books:

- Herbert Schildt, “Java : The Complete Reference”, Oracle Press , 11th Edition, 2018

- Joel Murach, Michael Urban, “murach’s Java Servlets and JSP”, Mike Murach & Associates, 3rd Edition, 2014

Reference websites:

- https://www.oracle.com/technetwork/java/javaee/documentation/index.html
- https://docs.oracle.com/javaee/6/tutorial/doc/bnafd.html
- https://docs.oracle.com/javaee/5/tutorial/doc/bnagx.html
- https://maven.apache.org/guides/getting-started/

3. RESOURCE PERSON

Mr. Sumit Kumar
Assistant Professor (CSE)

4. VENUE AND SCHEDULE

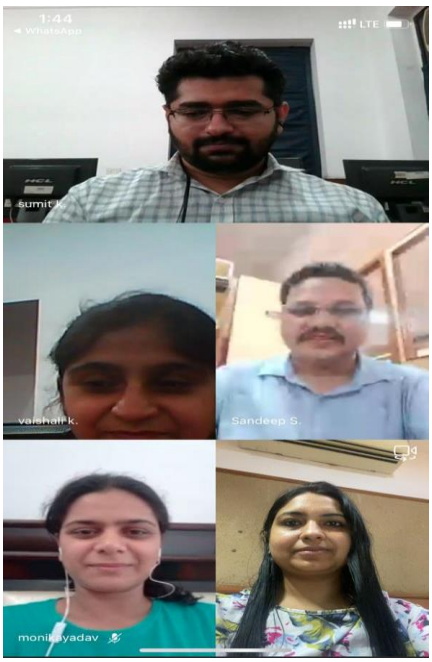
Online through Microsoft Teams

SCHEDULE

Day	Date	Duration	Topics and practice drills to be done
1	6th July	10:00 am - 2:00 pm	EWA Introduction, **Collections Framework:** Overview, Arraylists, Linkedlists, Practice Examples Sets and Maps: comparison and examples, HashSet, TreeSet, HashMap & TreeMap Stack & Queues: comparison and example usage cases, priority queues **Comparable and Comparators:** Practice Examples
2	7th July	10:00 am-2:00 pm	**Generics:** Why use Generics?, Examples and Syntax, Generic Class & Methods: Declaration & Examples Inheritance rules for Generics, Generic interfaces and Objects, Wildcard Arguments, Generics Limitations **Java Multithreading**: Fundamentals, Introduction and Example usages, Thread States and Transitions
3	8th July	10:00 am-2:00 pm	**Thread Synchronization:** concept & examples, Inter-thread communication: practice examples **Java Database Connectivity (JDBC):** Components & Architecture, JDBC API, Establishing a connection: Connectivity Steps

4	9th July	10:00 am-2:00 pm	Introduction to Java EE, **Apache Maven**, Setting up the Maven Environment, Maven Life Cycle **Java Servlets**, Session Management: HTTPSession interface, Handling Cookies, Hidden Form Fields, URL Rewriting
5	10th July	10:00 am-2:00 pm	**JSP (Java Server Pages):** Introduction & Example, Lifecycle, Scripting Elements, Implicit Objects, Action Elements, Expression Language: JSTL, JSP Custom Tags **Unit Testing:** Junit Introduction, Installation & Usage, Assert class, Annotations, Testing Arrays, Testing Exceptions, Testing Paramaterized Methods

5. Glimpses



Mr. Sumit Kumar
Coordinator-FDP

Dr. Kavita Khanna
HoD CSE/IT

Attendance Sheet:

EWA Training					
Faculty	**6/7/2020**	**7/7/2020**	**8/7/2020**	**9/7/2020**	**10/7/2020**
Mr. Sumit Kumar	Trainer	Trainer	Trainer	Trainer	Trainer
Dr. Sandeep Singh	P	P	P	P	P
Ms. Neeti Kashyap	P	P	P	P	P
Ms. Monika Yadav	P	P	P	P	P
Ms. Vaishali Kalra	P	P	P	P	P

FDP REPORT

ON

2D Game development (Unity 3D)

June 10, 2020 – July 14, 2020

SCHOOL OF ENGINEERING AND TECHNOLOGY
THE NORTHCAP UNIVERSITY, GURUGRAM-122017

Table of Contents

Contents

1. OBJECTIVES 3
2. Expected Outcomes: 3
3. RESOURCE PERSON 4
4. VENUE AND SCHEDULE 4
5. Glimpses ..... **Error! Bookmark not defined.**

FACULTY DEVELOPMENT PROGRAM

Department of Computer Science & Engineering

1. OBJECTIVES

Objectives: The purpose of this FDP is to prepare CSE faculty members for the upcoming semester subjects and aspects of game development. This training is hands on experience how to develop and create a game with Unity 3D game engine. This will provide project-based training that enables the faculty to effectively take this course.

2. Expected Outcomes:

Faculty should be able to

- Write game code with C#
- Understand the game development pipeline works
- Faculties will be able to independently create a 2D Plat-former game with Unity 3D Game Engine.
- Work on hands-on projects that develop ability to take this course in upcoming semester.

Books Recommended:

Textbooks:

- Stuart McClure, Joel Scam bray, George Kurtz, “Hacking Exposed 7: Network Security

Secrets and Solutions”, Tata McGraw Hill, 1 st edition, 2012

Reference Books:

- C# 2010 for Programmers 4E.pdf
- LEARNING C# BY DEVELOPING GAMES WITH UNITY 3D.pdf
- LEARNING UNITY 2D GAME DEVELOPMENT BY EXAMPLE.pdf

Reference websites:

- https://unity3d.com/learning-c-sharp-in-unity-for-beginners
- https://unity.com/how-to/programming-unity
- https://www.udemy.com/course/3dmotive-intro-to-c-programming-and-scripting-for-games-in-unity/

3. RESOURCE PERSON

Mr.Vamshi Krishna
Industry Expert (CEO – Sixpep Tecnovation Pvt.Ltd.)

4. VENUE AND SCHEDULE

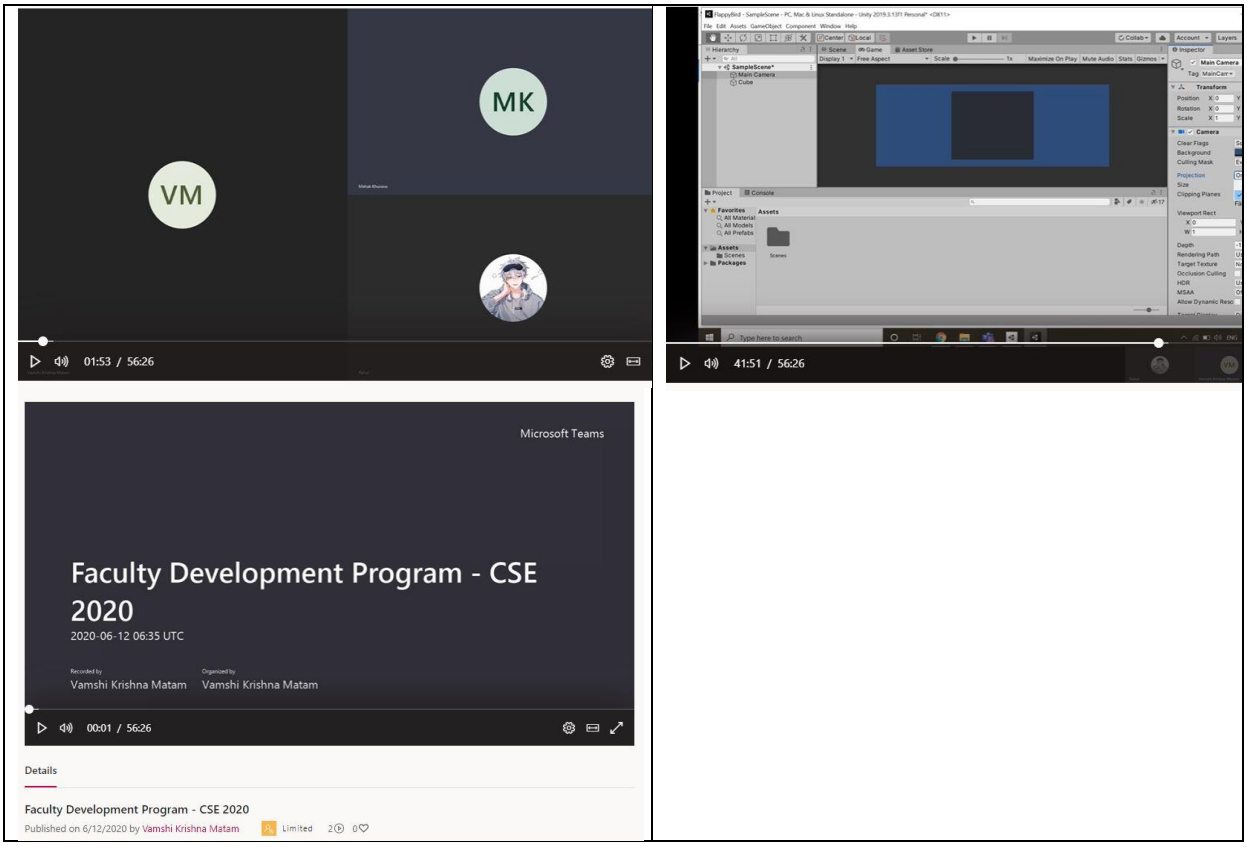
Room No:142

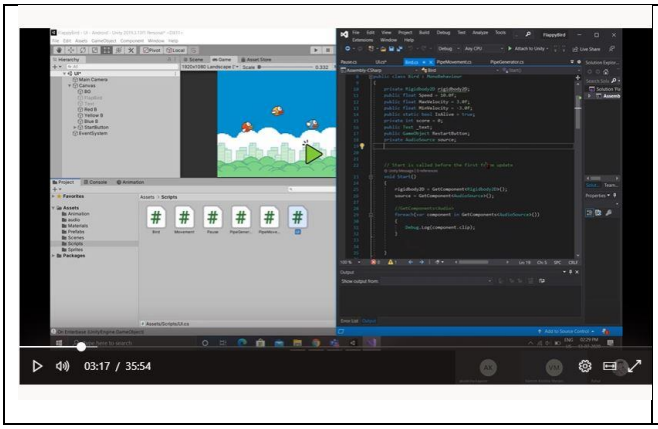
SCHEDULE

Day	Date	Duration	Topics and practice drills to be done
1	10th June	12:00 pm-1:00 pm	Introduction to games, history and game engines
2	11th June	12:00 pm-1:00 pm	Installation of unity editor, visual studio community
3	12th June	12:00 pm-1:00 pm	Introduction to unity editor, game objects and components
4	15th June	12:00 pm-1:00 pm	**Adding game objects like cube, plane, sphere and materials**
5	16th June	12:00 pm-1:00 pm	Changing material properties of the game objects
5	17th June	12:00 pm-1:00 pm	Understanding monobehaviour lifecycle like Awake, Start, and Update
6	18th June	12:00 pm-1:00 pm	Camera projection like perspective and orthographic
7	19th June	12:00 pm-1:00 pm	Importing assets into Unity (Textures)
8	23rd June	12:00 pm-1:00 pm	Creating pipe prefab, spawning pipes at runtime, using random y position
9	24th June	12:00 pm-1:00 pm	Moving pipes and shifting the position of the pipes
10	25th June	12:00 pm-1:00 pm	Creating bird and adding rigidbody component and jump script
11	26th June	12:00 pm-1:00 pm	Colliders and Triggers to calculate the score and death
12	30th June	12:00 pm-1:00 pm	UI Components: Text and Buttons to display the score and restart functionality
13	2nd July	12:00 pm-1:00 pm	UI Components: Image and panels
14	3rd July	12:00 pm-1:00 pm	Adjusting UI anchors to work for different resolutions

15	6th July	12:00 pm-1:00 pm	Introduction to 2D Animation and adding animation to bird
16	7th July	12:00 pm-1:00 pm	Improving aesthics of the game using textures (Flappy bird)
17	8th July	12:00 pm-1:00 pm	Adding audio source
18	9th July	12:00 pm-1:00 pm	Adding touch controls to support for mobile devices
19	10th July	12:00 pm-1:00 pm	Adding Android Modules, Android SDk and NDK
20	12th July	12:00 pm-1:00 pm	Switching the platform to Android and Deploying to Android
21	13th July	12:00 pm-1:00 pm	Debugging on Android Devices, using Android Logcat
22	14th July	12:00 pm-1:00 pm	Final Review of the game

5. Glimpses: This was an online FP

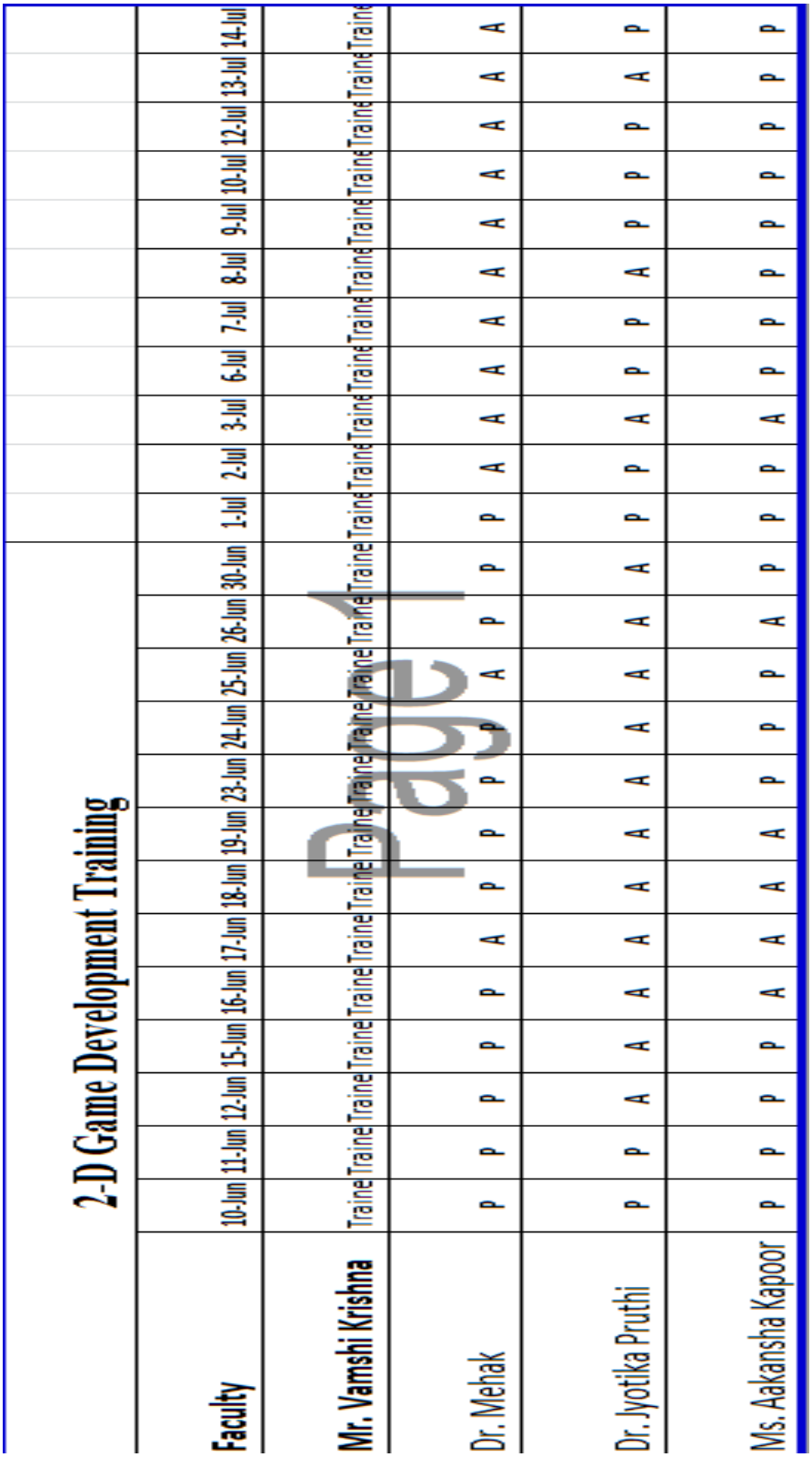




Ms. Nisha Arya
Coordinator-FDP

Dr. Kavita Khanna
HoD CSE/IT

Attendance Sheet



2-D Game Development Training																								
Faculty	10-Jun	11-Jun	12-Jun	15-Jun	16-Jun	17-Jun	18-Jun	19-Jun	23-Jun	24-Jun	25-Jun	26-Jun	30-Jun	1-Jul	2-Jul	3-Jul	6-Jul	7-Jul	8-Jul	9-Jul	10-Jul	12-Jul	13-Jul	14-Jul
Mr. Vamshi Krishna	Traine	Traine	Traine	Traine	Traine	Traine	Traine	Traine	Traine	Traine	Traine	Traine	Traine	Traind	Traind	Traind	Traind	Traine	Traine	Traind	Traind	Traind	Traind	Traine
Dr. Mehak	P	P	P	P	P	A	P	P	P	P	A	P	A	P	P	A	A	A	A	A	A	A	A	A
Dr. Jyotika Pruthi	P	P	A	A	A	A	A	A	A	A	A	A	A	P	P	A	P	P	A	P	P	P	A	P
Ms. Aakansha Kapoor	P	P	P	P	A	A	A	A	P	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P

Page 1

FDP REPORT

ON

MACHINE LEARNING

PART I

June 26, 2020 – July 17, 2020

SCHOOL OF ENGINEERING AND TECHNOLOGY
THE NORTHCAP UNIVERSITY, GURUGRAM-122017

Table of Contents

Contents

1. OBJECTIVES 3
2. Expected Outcomes: 3
3. RESOURCE PERSON 4
4. VENUE AND SCHEDULE 4
5. Glimpses 5

FACULTY DEVELOPMENT PROGRAM

Department of Computer Science & Engineering

1. OBJECTIVES

Objectives: The purpose of this FDP is to expose to machine learning and pre-processing concepts, Model Selection, XGBoost. Feature Selection- Filter and Wrapper, Dimensionality Reduction. Also it includes different clustering algorithms in machine learning, Different categories of clustering algorithms, similarity/distance measures, K Means algorithm, Hierarchical, DBSCan, Fuzzy C-Means , Agglomerative clustering algorithm. It covers a case study with clustering implementation, Eclat, Reinforcement Learning, Upper Confidence Bound UCB, Thompson. This FDP provides real world data analysis training that enables the faculty members to effectively take this course.

2. Expected Outcomes:

Faculty should be able to

- Understand the difference between supervised and unsupervised approaches and design the model with no training data.
- Implement the methods to find frequent patterns and associations in the patterns
- Implement reinforcement techniques with real world data
- Implement dimensionality reduction techniques to improve the efficiency of models
- Work on hands-on projects that develop ability to solve real-world problems

Books Recommended:

Textbooks:

1. Machine Learning using Python Paperback – 1 January 2019, by U Dinesh Kumar, Manaranjan Pradhan, Wiley.

Reference Books:

1. Python Machine Learning, 1st Edition Paperback by Sebastia Raschka 2016, Packt

2. Reinforcement Learning Algorithms with Python: Learn, understand, and develop smart algorithms for addressing AI challenges , 2019 by Andrea Lonza , Packt

Reference websites:

- https://machinelearningmastery.com/a-tour-of-machine-learning-algorithms/

3. RESOURCE PERSON

Mr. Manuj Chandra

Lecturer at Mages Institute of Excellence

4. VENUE AND SCHEDULE

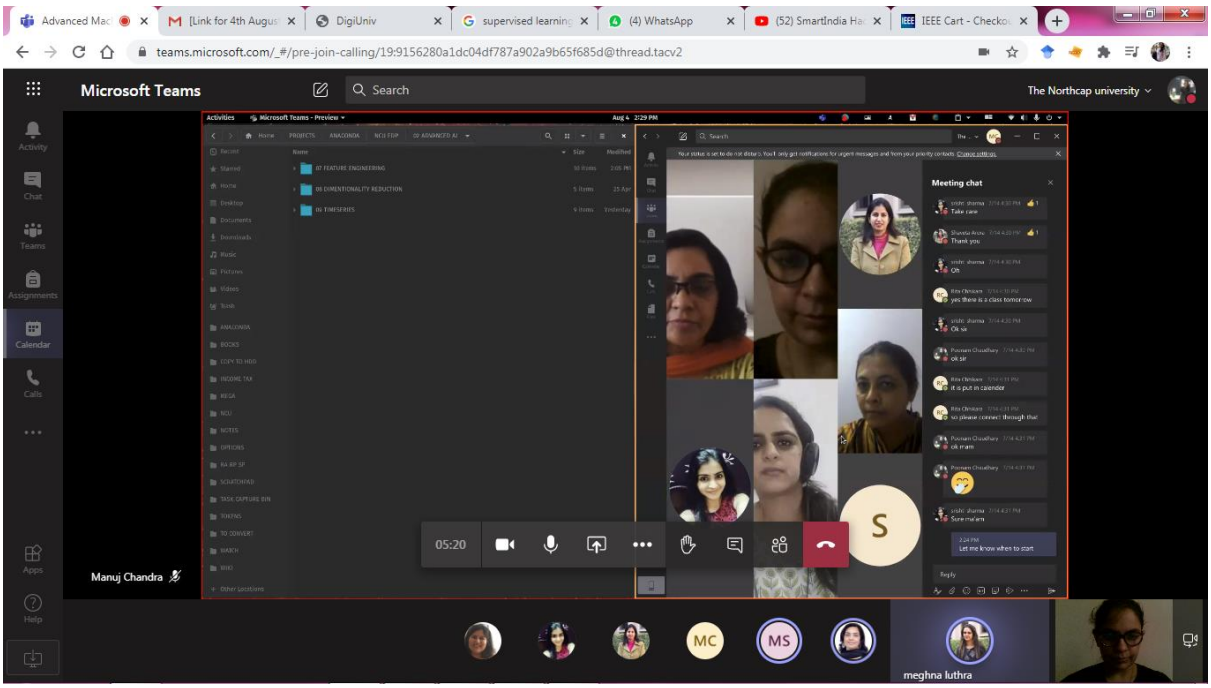
Three days per week (Tuesday, Thrusday and Friday)
Timings: 2:30-4:30 PM
Online classes through Microsoft Teams

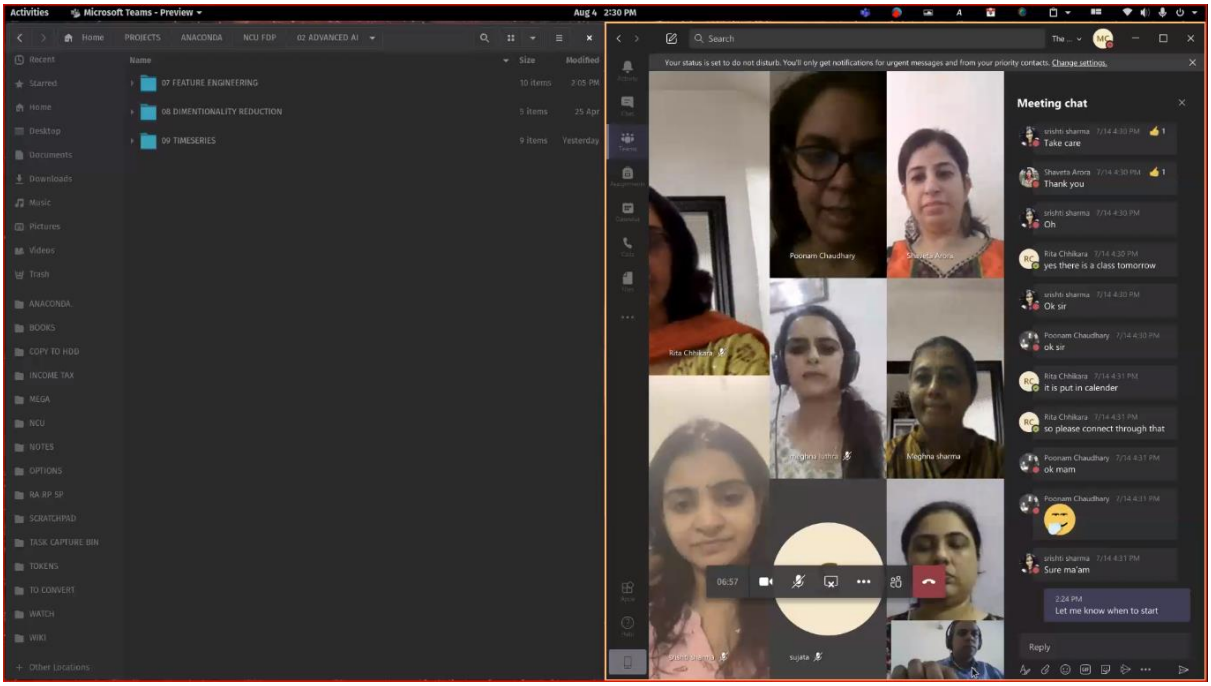
5. SCHEDULE

Day	Date	Duration	Topics and practice drills to be done
1	26.06.2020	02:30 pm-4:30 pm	Clustering algorithms in machine learning, Different categories of clustering algorithms, similarity/distance measures, K Means algorithm. Python code for Implementation
2	01.07.2020	02:30 pm-4:30 pm	Clustering algorithms : hierarchical clustering. Associative rule learning: Apriori and ECLAT Algorithms and code
3	02.07.2020	02:30 pm-4:30 pm	Reinforcement learning: **Bandit problem,** deterministic and nondeterministic ways to solve the problem
4	03.07.2020	02:30 pm-4:30 pm	Upper Bound algorithm, thompson Sampling, Bayesian Bandit, Python code for same
5	07.07.2020	02:30 pm-4:30 pm	**Regularisation:** ridge regression for categorical data, Lasso Regression, Elastic Net regression
6	09.07.2020	02:30 pm-4:30 pm	**Regularisation:**code implementation of ridge regression for categorical data, Lasso Regression, Elastic Net regression
7	10.07.2020	02:30 pm-4:30 pm	**Boosting Algorithms:** gradient descent, XGboost, Serialization,
8	14.07.2020	02:30 pm-4:30 pm	XGboost implementation, k-fold cross validation
9	15.07.2020	02:30 pm-4:30 pm	Problem handling for data processing: outlier handling, missing value handling: completely at random, not at random, at

			random
10	16.07.2020	02:30 pm-4:30 pm	Feature Engineering, Correlation, feature selection, dimensionality reduction, RFE, Python code for same
11	17.07.2020	02:30 pm-4:30 pm	Feature Extraction: from Text, image, OCR, Python code

6. Glimpses





Dr.Rita Chikara Ms. Srishti
Ms. Poonam Chaudhary

Coordinators-FDP

Dr. Kavita Khanna

HoD CSE/IT

Attendance Sheet:

Training- Advance Machine Learning (July 2020)	26-06-2020 (Day 1)	01-07-2020 Day 2	02-07-2020 Day 3	03-07-2020 Day 4	07-07-2020 Day 5	09-07-2020 Day 6	10-07-2020 Day 7	14-07-2020 Day 8	15-07-2020 Day 9	16-07-2020 Day 10	17-07-2020 Day 11
	2:30-4:30pm	2:30-4:30pm	2:30-4:30pm	2:30-4:30pm	2:30-4:30pm	2:30-4:30pm	2:30-4:30pm	2:30-4:30pm	2:30-4:30pm	2:30-4:30pm	2:30-4:30pm
Sr. No	Faculty Name										
1) Dr Rita Chhikara	1	1	1	1	1	1	1	1	1	1	1
2) Dr Sujata	1			1	1		1		1		
3) Dr Shaveta	1	1	1	1	1	1	1	1		1	1
4) Dr Anuradha	1	1	1	1	1		1	1	1	1	1
5) Chaudhary		1	1	1	1	1	1	1	1	1	1
6) Ms Srishti Sharma	1	1	1	1	1	1	1	1	1	1	1
7) Ms Meghna Luthra	1	1	1	1	1	1	1	1	1	1	1
8) Ms Manvi Bareja	1	1	1	1	1	1	1			1	1
9) Dr. Nitin Malik		1	1	1	1	1	1	1			1
10) Dr. Meghna Sharma	1	1		1		1	1	1		1	1

FDP REPORT

ON

Web Security

July 10, 2020 – July 29, 2020

SCHOOL OF ENGINEERING AND TECHNOLOGY
THE NORTHCAP UNIVERSITY, GURUGRAM-122017

Table of Contents

Contents

1. OBJECTIVES 3
2. Expected Outcomes: 3
3. RESOURCE PERSON 4
4. VENUE AND SCHEDULE 4
5. Glimpses 5

FACULTY DEVELOPMENT PROGRAM

Department of Computer Science & Engineering

1. OBJECTIVES

Objectives: The purpose of this FDP is to expose to real time Web vulnerabilities, lunching attacks and testing the security of existing websites to CSE faculty members. This training includes SET and top 10 OWASP Vulnerabilities that consequently discusses various ways to discover and exploit large number of vulnerabilities to gain access of site. This will provide application-based implementations training that enables the faculty to effectively take this course.

2. Expected Outcomes:

Faculty should be able to

- Create phishing page by using software engineering tools and take the username and the password of the user
- Apply track email, trace email tool and spoof email to send the malicious content to the user
- Recognise the user agent and spoof the identity of the user and perform exploit
- Work on hands-on on OWASP top 1st Vulnerability SQL Injection to exploit the vulnerability in the database

Books Recommended:

Textbooks:

- Bryan Sullivan and Vincent Liu, "Web Application Security: A beginner Guide", McGraw-Hill Education, 1st edition, 2011.
- Steven Furnell, "Mobile Security: a pocket Guide", IT Governance Publishing, 1st Edition, 2009.

Reference Books:

- Nikolay Elenkov, "Android Security Internals: An In-Depth Guide to Android's Security Architecture", No Starch Press, 1st Edition, 2014.

- Ben Walther and Paco Hope, “Web Security Testing Cookbook: Systematic Techniques to Find Problems fast”, O&Reilly Media; 1st edition, 2008.

Reference Websites:

- https://www.udemy.com/course/web-application-security/
- https://www.iisecurity.in/courses/mobile-security-training-course.php
- https://www.elearnsecurity.com/course/mobile_application_security_and_penetration_testing/

3. RESOURCE PERSON

Dr. Mehak Khurana
Assistant Professor (CSE)

4. VENUE AND SCHEDULE

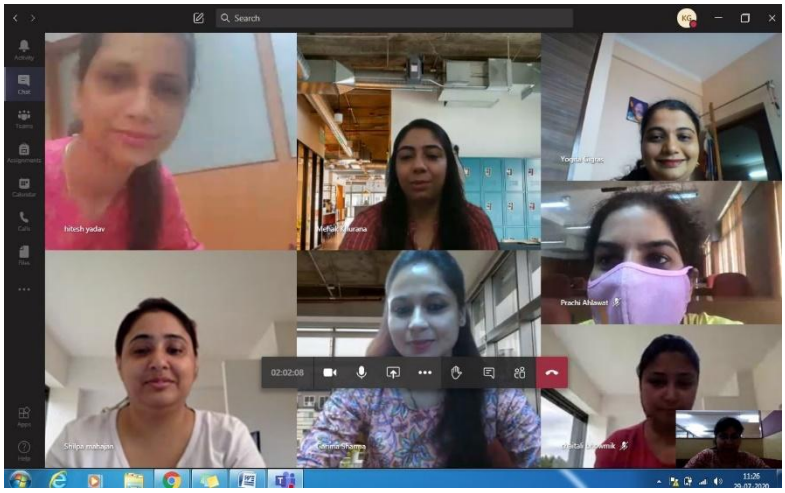
Room No: Online Mode (Teams)

SCHEDULE

Date	Duration	Session	Topics and practice drills to be done
10th July	9:00am-12:00am	Session 1	Web application and Websites and introduction to post and GET parameter
13th july	9:30am-12:30am	session 2	Types of attacks
15th july	9:30am-12:30am	session 3	Web components and running a php code with HTML view on XAMPP server Phishing of web pages using Social Engineering and deplyoing on server
17th july	9:30am-12:30am	session 4	Phishing of web pages using Social Engineering Toolkit-1) SET 2) Socialfish
20th july	9:30am-12:30am	session 5	Phishing of web pages using Social Engineering Toolkit- 1) SET 2) Shellfish
22th july	9:30am-12:30am	session 6	SQL Injection and SQL commands using Xampp Manual SQL (Union Based)
24th july	9:30am-12:30am	session 7	CTF Authentication Based SQL Error Based SQL Injection

27th july	9:30am-12:30am	session 8	Error Based SQL Injection (Double Query)
29th july	9:30am-12:30am	session 9	Blind SQL Injection Boolean Based Blind SQL Injection Time Based SQL Injection, CTF

5. Glimpses



Dr. Mehak Khurana
Coordinator-FDP

Dr. Kavita Khanna
HoD CSE/IT

Attendance Sheet

Web Security Training								
Faculty	**7/10/2020**	**7/13/2020**	**7/17/2020**	**7/20/2020**	**7/22/2020**	**7/24/2020**	**7/27/2020**	7/29/2020
Dr. Mehak	Trainer	Trainer	Trainer	Trainer	Trainer	Trainer	Trainer	Trainer
Dr. Prachi	P	P	P	P	P	P	P	P
Dr. Shilpa	P	P	P	P	P	P	P	P
Dr. Yogita	P	P	P	P	P	P	P	P
Ms. Hitesh	P	P	P	P	P	P	P	P
Ms. Garima	P	P	P	P	P	P	P	P
Ms. Kanika	P	P	P	P	P	P	P	P
Ms. Chaitali	P	P	P	P	P	P	P	P

FDP REPORT

ON

Mobile App Development using Flutter

Jul 13, 2020 – Jul 17, 2020

SCHOOL OF ENGINEERING AND TECHNOLOGY
THE NORTHCAP UNIVERSITY, GURUGRAM-122017

Table of Contents

Contents

1. OBJECTIVES 3
2. Expected Outcomes: 3
3. RESOURCE PERSON 4
4. VENUE AND SCHEDULE 4
5. Glimpses 5

FACULTY DEVELOPMENT PROGRAM

Department of Computer Science & Engineering

- **OBJECTIVES**

  Flutter framework continuing to grow in popularity for companies and developers alike, the need for an understanding of how to utilize the framework in a large-scale context has become more relevant than ever. Since the framework has been included in the scheme of study for B.Tech. CSE, it is required to equip the faculty members with insights of this framework. It will also help to guide the students doing final year projects in multi-platform mobile application development. The Flutter community is steadily growing, but as Flutter is still such a new framework, there is not yet a clear consensus on how to develop large-scale applications with it. Many possible approaches and recommendations are spread out over blogposts, articles and social media discussions. One of the purpose of this FDP is to discuss the future scope of the mobile application framework development.

- **Expected Outcomes:**

  Faculty should be able to

  - Design and build application for Android & iOS platform
  - Ensure the performance, quality, and responsiveness of the application.
  - Study existing applications, identify deficiencies, fix bugs and offer timely solutions/modifications.
  - Help maintain code quality, organization, and automation.
  - Guide students for their performance and develop quality applications.
  - Work closely with other faculty members for timely resolution of application issues and develop new software applications/components.
  - Write, revise and maintain software program documentation, operations

Books Recommended:

Textbooks:

- Simone Alessandria, “Flutter Projects: A practical, project-based guide to building real-world cross-platform mobile applications and games”, Packt Publishing Ltd., 1st edition, 2020

Reference Books:

- Frank Zammetti, “Practical Flutter”, Apress, 1st Edition, 2019
- Rap Payne, “Beginning App Development with Flutter”, Apress, 1st Edition, 2019

- Sanjib Sinha, "Quick Start Guide to Dart Programming - Create High-Performance Applications for the Web and Mobile", Apress, 1st Edition, 2020

Reference websites:

- https://dart.dev/
- https://flutter.dev/
- https://codelabs.developers.google.com/codelabs/flutter/index.html?index=..%2F..index#0
- https://codelabs.developers.google.com/codelabs/friendlyeats-flutter/index.html?index=..%2F..index#0

- **RESOURCE PERSON**

Dr. Sumanlata Gautam
Assistant Professor (CSE)

Dr. Sandeep Singh
Assistant Professor (CSE)

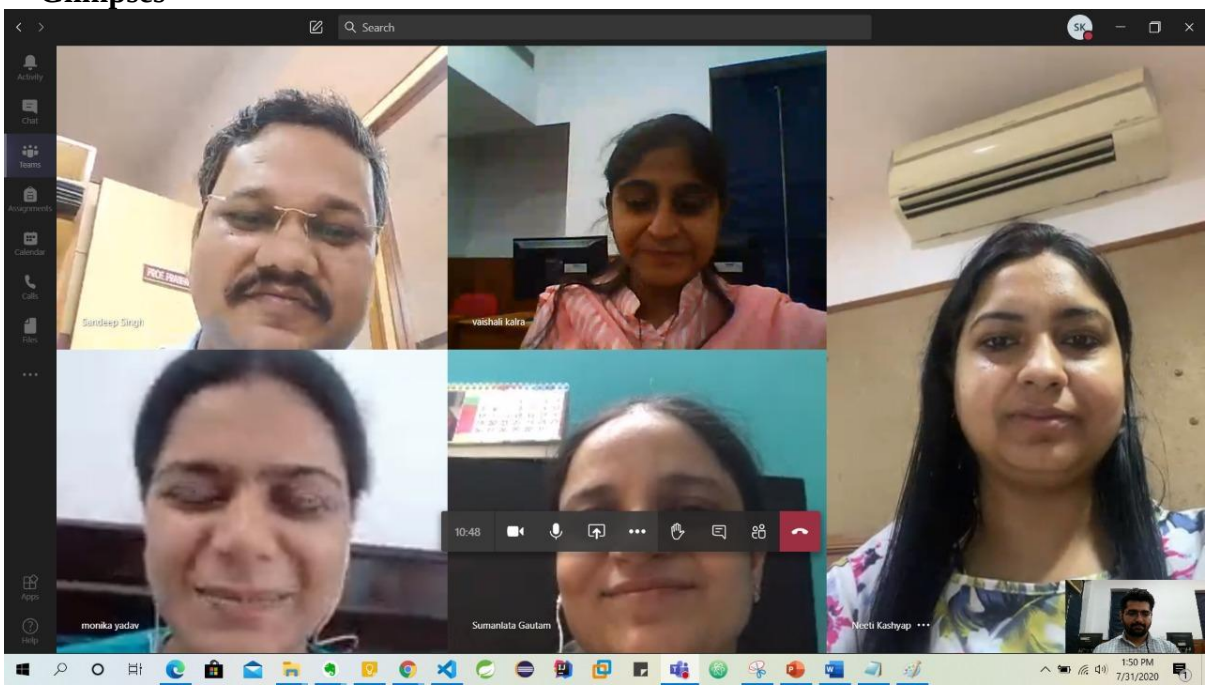
- **VENUE AND SCHEDULE**

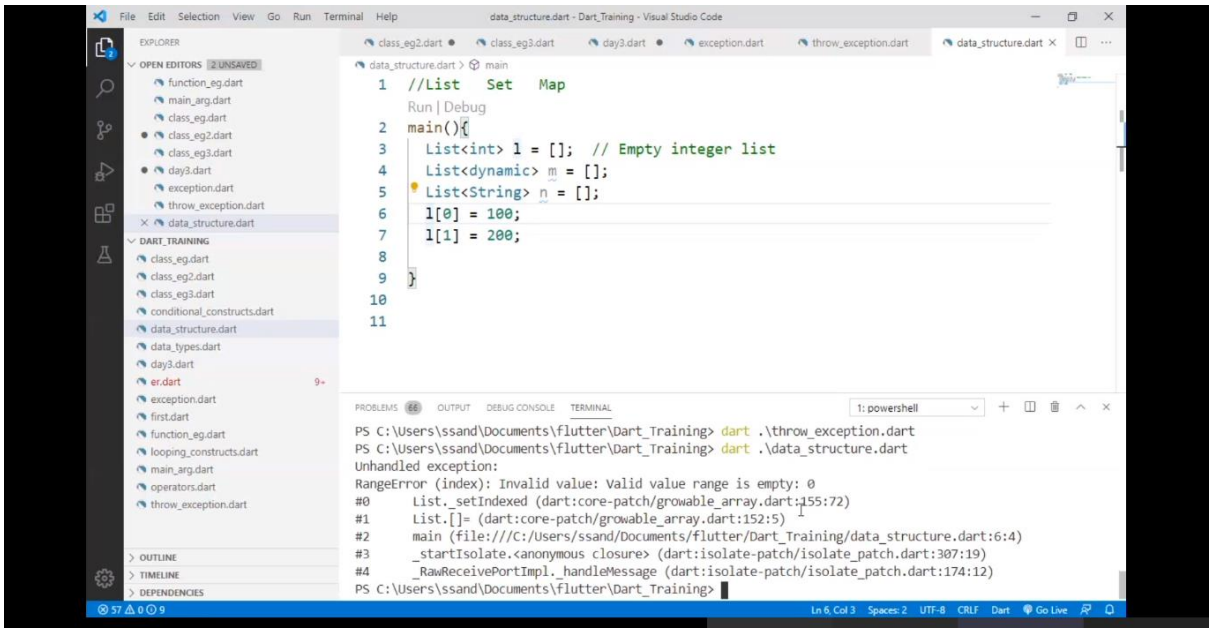
Online on Microsoft Teams

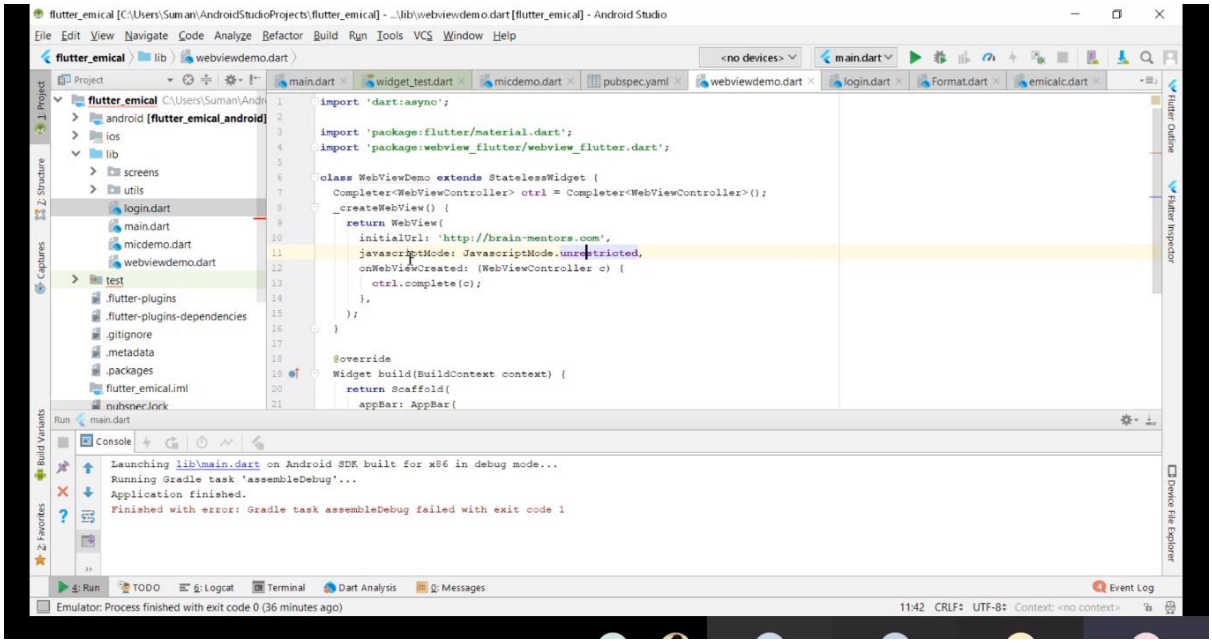
SCHEDULE

Date	Duration	Topics and practice drills to be done
13th July	09:00am-1:00pm	Dart Introduction: Data types, Statement, expressions, Conditional and Looping constructs, Array/ Lists, Classes, Map, Function and objects, Arrow Functions
14th july	9:00am-1:00pm	Android Studio installation, Flutter Introduction: First App, ListView, Drawer
15th july	09:00am-1:00pm	EMI calculator App, URI Launcher, PageView
16th july	9:00am-1:00pm	WebView, Camera Access and Image gallery usage App
17th july	09:00am-1:00pm	Crud App using firebase

- **Glimpses**


Search
Sandeep Singh
vaishali kalra
monika yadav
Sumanlata Gautam
Neeti Kashyap
10:48
1:50 PM
7/31/2020


data_structure.dart - Dart_Training - Visual Studio Code
//List Set Map
Run | Debug
main(){
List<int> l = []; // Empty integer list
List<dynamic> m = [];
List<String> n = [];
l[0] = 100;
l[1] = 200;
}
PS C:\Users\ssand\Documents\flutter\Dart_Training> dart .\throw_exception.dart
PS C:\Users\ssand\Documents\flutter\Dart_Training> dart .\data_structure.dart
Unhandled exception:
RangeError (index): Invalid value: Valid value range is empty: 0
#0 List._setIndexed (dart:core-patch/growable_array.dart:155:72)
#1 List.[]= (dart:core-patch/growable_array.dart:152:5)
#2 main (file:///C:/Users/ssand/Documents/flutter/Dart_Training/data_structure.dart:6:4)
#3 _startIsolate.<anonymous closure> (dart:isolate-patch/isolate_patch.dart:307:19)
#4 _RawReceivePortImpl._handleMessage (dart:isolate-patch/isolate_patch.dart:174:12)
PS C:\Users\ssand\Documents\flutter\Dart_Training>



Mehak

Kavita Khanna

Dr. Mehak Khurana
Coordinator-FDP

Dr. Kavita Khanna
HoD CSE/IT

Attendance Sheet:

Flutter Training (Mobile Application Development)

Faculty	13/7/2020	14/7/2020	15/7/2020	16/7/2020	17/7/2020
Dr. Sandeep Singh	Trainer	Trainer	Trainer	Trainer	Trainer
Dr. Sumanlata Gautam	Trainer	Trainer	Trainer	Trainer	Trainer
Ms. Prerna Singal	P	P	P	P	P
Ms. Neeti Kashyap	P	P	P	P	P
Ms. Monika Yadav	P	P	P	P	P
Ms. Vaishali Kalra	P	P	P	P	P
Mr. Sumit Kumar	P	P	P	P	P

FDP REPORT

ON

Network Security

July 14, 2020 – July 30, 2020

SCHOOL OF ENGINEERING AND TECHNOLOGY
THE NORTHCAP UNIVERSITY, GURUGRAM-122017

Table of Contents

Contents

1. OBJECTIVES 3
2. Expected Outcomes: 3
3. RESOURCE PERSON 4
4. VENUE AND SCHEDULE 4
5. Glimpses 5

FACULTY DEVELOPMENT PROGRAM

Department of Computer Science & Engineering

1. OBJECTIVES

Objectives: The purpose of this FDP was to upskill the CSE faculty members in the domain of Network security to secure network by detecting, preventing, and taking preventing measures where necessary. This training facilitated the faculty to gain a deeper, technical understanding of how to secure a network and to get acquainted with popular networking tools. The training has enabled the faculty members to understand and analyse different attack/defend scenarios and determine the effectiveness of particular defence deployments against attacks.

2. Expected Outcomes:

Faculty should be able to

- Understanding security architectures, protocols and services in both wired and wireless networks
- Discover, analyze and identify security issues in the network
- Apply security mechanisms, security policies, security components (such as protection domains and firewalls), port security and protection to secure networks.

Books Recommended:

Textbooks:

- B William Stallings, " Network Security Essentials (Applications and Standards)", Pearson Education., 5th Edition,2011

- Ryan Russell, " Hack Proofing your network ", Wiley,2nd Edition,2002

Reference Books:

1. Karen Scarf one, “Guide to Intrusion and prevention System”, NIST Special Publication, 2nd Edition,2007

Reference Websites:

1. https://nptel.ac.in/syllabus/syllabus.php?subjectId=106105031
2. https://www.cybrary.it/course/security-for-beginners/

RESOURCE PERSON

Dr. Shilpa Mahajan
Assistant Professor (CSE)

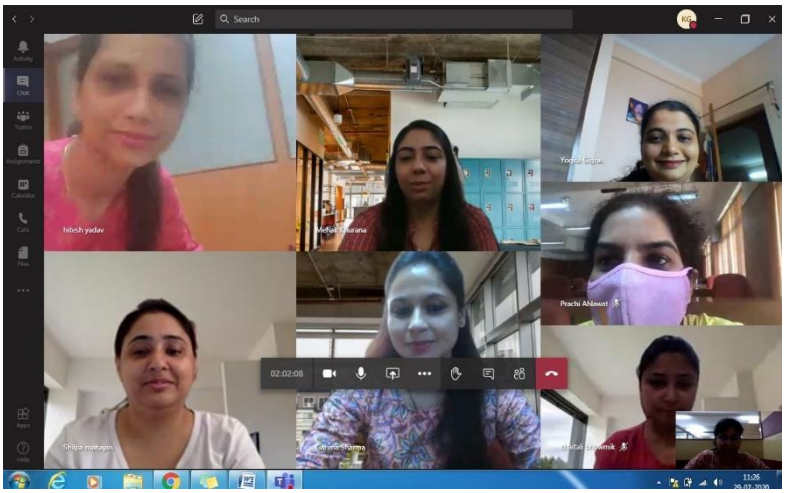
3. VENUE AND SCHEDULE

Room No: Online Mode (Teams)

SCHEDULE

Date	Duration	Session	Topics and practice drills to be done
14th July	9:00am-12:00am	Session 1	Network Basics IPV4 and IPv6 Headers and their security aspects
16th july	9:30am-12:30am	session 2	Network Reconaissance and wireshark in detail
18th july	9:30am-12:30am	session 3	TCPDump NetDiscover Shodan. And their details
28th july	9:30am-12:30am	session 4	Spoofing- IP, DNS and ARP 2) Socialfish
30th july	9:30am-12:30am	session 5	Session Hijacking -UDP and HTTP

4. Glimpses



Dr. Shilpa Mahajan
Coordinator-FDP

Dr. Kavita Khanna
HoD CSE/IT

Attendance sheet:

Network Security Training					
Faculty	**7/14/2020**	**7/16/2020**	**7/18/2020**	**7/28/2020**	**7/30/2020**
Dr. Shilpa	Trainer	Trainer	Trainer	Trainer	Trainer
Dr. Prachi	P	P	P	P	P
Dr. Mehak	P	P	P	P	P
Dr. Yogita	P	P	P	P	P
Ms. Hitesh	P	P	P	P	P
Ms. Garima	P	P	P	P	P
Ms. Kanika	P	P	P	P	P
Ms. Chaitali	P	P	P	P	P

Page 1

FDP REPORT

ON

UI UX Design

July 27, 2020 – July 31, 2020

SCHOOL OF ENGINEERING AND TECHNOLOGY
THE NORTHCAP UNIVERSITY, GURUGRAM-122017

Table of Contents

Contents

1. OBJECTIVES 3
2. Expected Outcomes: 3
3. RESOURCE PERSON 4
4. VENUE AND SCHEDULE 4
5. Glimpses 5

FACULTY DEVELOPMENT PROGRAM

Department of Computer Science & Engineering

1. OBJECTIVES

Objectives: The purpose of this FDP is to Introduction to UI & UX Design- Introduction & overview: Basic Drawing Skills, Color Theory, Principles, elements of UI & UX Design, Introduction to Digital Design - Adobe Photoshop and Adobe XD, Wire framing & Storyboarding , screen Design and Layouts.

2. Expected Outcomes:

Faculty should be able to

- Use scanning tools to conduct comprehensive network sweeps, port scans, OS, fingerprinting, to develop a map of target environment.
- Recognize security vulnerabilities and investigate vulnerable systems
- Apply penetration testing tools to exploit and vulnerable systems.
- Work on hands-on projects that develop ability to solve real-world problems

Books Recommended:

Textbooks:

- Alan Dix, Janet Finlay, Gregory Abowd, Russell Beale, "Human Computer Interaction", 3rd Edition, Pearson

Education, 2004.**Reference Books:**

- Dix, A., Finlay, J., Abowd, G.D., & Beale, R. (2004). Human computer interaction (3rd ed.). Prentice Hall. ISBN 0-13-046109-1.
- Preece, J., Rogers, Y., & Sharp, H. (2015). Interaction design: Beyond human-computer interaction (4th ed.) John Wiley & Sons Ltd. ISBN 978-1-119-02075-2.

Reference websites:

- https://www.coursera.org/specializations/interaction-design
- https://www.coursera.org/specializations/ui-ux-design

3. RESOURCE PERSON

Ms. Nisha Arya
Gaming AR, VR (Lead)
Industry Engagement Manager
Assistant Professor (CSE)

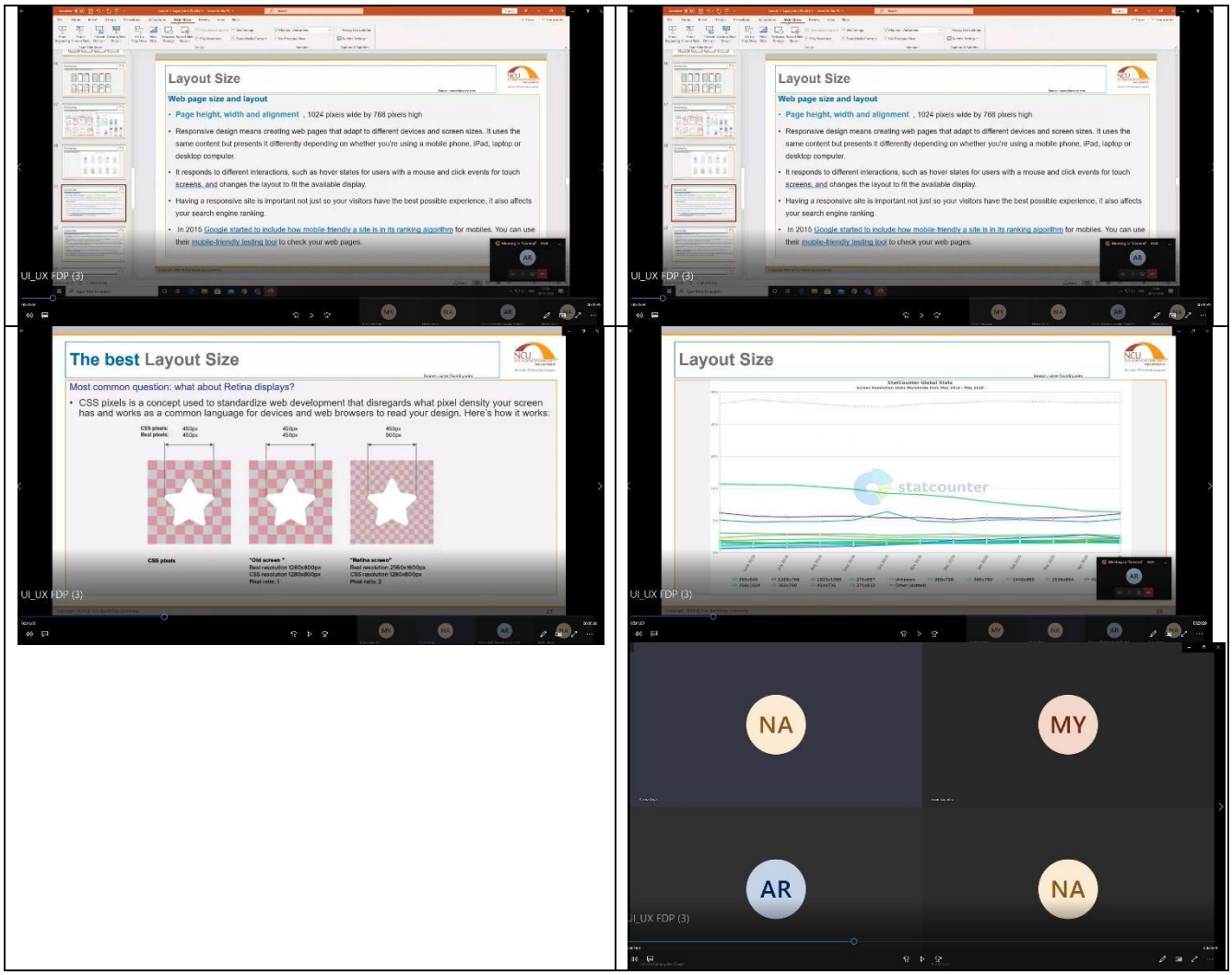
4. VENUE AND SCHEDULE

Room No:108

SCHEDULE

Day	Date	Duration	Topics and practice drills to be done
1	27th July 2020	10:00 am-2:00 pm	Introduction to UI & UX Design, Basic drawing and graphics techniques, Color theory. Understanding the fundamentals of UI / UX. **In class: Adobe Photoshop download and Installed**
2	28th July 2020	10:00 am-2:00 pm	Introduction to digital design through Adobe photoshop, The Principles and Elements of Design. **In class: Hands on learning and working of photo editing project.**
3	29th July 2020	10:00 am-2:00 pm	Adobe Photoshop (Tools and Techniques) how it is used is UI UX, wire framing. Create buttons / design / Text/ Effects / Filters / layer style**.** **In class: Practice on Adobe photo shop all tools and techniques.**
4	30th July 2020	10:00 am-2:00 pm	Hands on creating a web page design in Adobe photoshop (Creating buttons and UI layouts) Adobe Photoshop: Wire framing & Storyboarding. Screen Design and Layouts. **In class: Creating a web page design**
5	31st July 2020	10:00 am-2:00 pm	Introduction to Adobe XD (How to create an interactive button) **In class: Create a interactive button on Adobe XD**

5. Glimpses



Ms. Nisha Arya
Coordinator-FDP

Dr. Kavita Khanna
HoD CSE/IT

Attendance Sheet:

UI/UX Design Training					
Faculty	7/27/2020	7/28/2020	7/29/2020	7/30/2020	7/31/2020
Ms. Nisha Arya	Trainer	Trainer	Trainer	Trainer	Trainer
Ms. Monika Yadav	P	P	P	P	p
Ms. Ashwini Rahangdale	P	P	P	P	p

Page 1

Report on

Staff Development Programme

On

Communication Skills for Technical Staff

Conducted at University Level

THE NORTHCAP UNIVERSITY, GURGAON

A four days faculty development programme for technical staff on "Communication Skills" was held to enable Strong communication skills of employees of an organization. This was conducted to make their work more effective by increasing their efficiency, workplace relationship and productivity. Keeping this in view, a series of workshops on Communication skills were planned at the University from Saturday, 18 January 2020.

To begin with, a Diagnostic assessment session was conducted for participants on 18 January at 10.00 AM.

The detailed schedule:

Date: Saturday, 18th January 2020
Time: 10.00 AM onwards
Venue: N- 203 (10:00 - 11:30 am) (Common for all)
N- 205 (11:30 - 1:30 pm) (Group 1)
N- 206 (11:30 - 1:30 pm) (Group 2).

After the Diagnostic Session on "Communication Skills for Technical Staff," the following sessions were held:
Session I: Conducted on 24th September 2020 at 2:30 pm
Session II: Conducted on 30th September 2020 at 2:00 pm
Session III: Conducted on 26 November 2020 at 2.30 pm
Session IV: Conducted on 3rd December 2020 at 2.30 pm

The sessions were focused on improving and evaluating participants on their listening abilities. It started with a brief on the concept of communication, followed by tips to effective listening. The Instructors engaged the participants in activities that helped them understand and overcome the barriers that hamper effective listening. The session was very interactive and engaging.

Photo Gallery:

NCU
THE NORTHCAP UNIVERSITY

List of Participant: 18/01/20

S. No.	Name
1	Divyabha Vashisth
2	savita20cld003
3	Deepak Saini
4	nimisha20cld002
5	Vijay Pratap Singh
6	Harpreet Singh
7	Akhand Pratap Singh
8	Sunder kumar Saini
9	Sunil Kumar
10	Harish Chandna
11	Satish Bohra
12	Sanoj Kumar
S. No.	Name
13	Sushil Kumar Verma
14	Lalit Kumar
15	vijay budakoti
16	Sumit Bhat
17	Rohit Pant
18	Mahipal Singh Rawat
19	Ajay Kumar
20	lakshi20cld004
21	Vijender Pal
22	Pinaki Dutta
23	jagmohan
24	Mukesh Kumar
25	Mahipal Singh Rawat
26	Harsh Singh Rawat
27	manmohan
28	lnjoshi
29	Deshraj Singh

List of Participant: 24/09/20

Full Name	User Action	Timestamp
Divyabha Vashisth	Joined	09/24/2020, 2:30:05 PM
Sushil Kumar Verma	Joined	09/24/2020, 2:30:07 PM
Harish Chandna	Joined	09/24/2020, 2:31:05 PM
lakshi20cld004	Joined	09/24/2020, 2:31:41 PM
nimisha20cld002	Joined before	09/24/2020, 2:31:05 PM
Vijay Pratap Singh	Joined before	09/24/2020, 2:31:05 PM
Vijender Pal	Joined before	09/24/2020, 2:31:05 PM
Akhand Pratap Singh	Joined before	09/24/2020, 2:31:05 PM
Sunder kumar Saini	Joined before	09/24/2020, 2:31:05 PM
Sunil Kumar	Joined before	09/24/2020, 2:31:05 PM
Harish Chandna	Joined before	09/24/2020, 2:31:05 PM
Satish Bohra	Joined before	09/24/2020, 2:31:05 PM
Pinaki Dutta	Joined before	09/24/2020, 2:31:05 PM
savita20cld003	Joined before	09/24/2020, 2:31:05 PM
Lalit Kumar	Joined before	09/24/2020, 2:31:05 PM
Harsh Singh Rawat	Joined before	09/24/2020, 2:31:05 PM
vijay budakoti	Joined before	09/24/2020, 2:31:05 PM
Sumit Bhat	Joined before	09/24/2020, 2:31:05 PM
Rohit Pant	Joined before	09/24/2020, 2:31:05 PM
Mahipal Singh Rawat	Joined	09/24/2020, 2:31:10 PM
Harsh Singh Rawat	Joined	09/24/2020, 2:31:19 PM
Deepak Saini	Joined	09/24/2020, 2:32:29 PM
Harpreet Singh	Joined	09/24/2020, 2:33:13 PM
Sanoj Kumar	Joined	09/24/2020, 2:33:13 PM
jagmohan	Joined	09/24/2020, 2:33:13 PM
Deshraj Singh	Joined	09/24/2020, 2:33:31 PM

Mahipal Singh Rawat	Joined	09/24/2020, 2:34:22 PM
Ajay Kumar	Joined	09/24/2020, 2:34:56 PM
manmohan	Joined	09/24/2020, 2:37:32 PM
lnjoshi	Joined	09/24/2020, 2:38:58 PM
Mukesh Kumar	Joined	09/24/2020, 2:38:58 PM

List of Participant: 30/09/20

Full Name	User Action	Timestamp
Divyabha Vashisth	Joined	09/30/2020, 2:31:05 PM
savita20cld003	Joined before	09/30/2020, 2:31:05 PM
Deepak Saini	Joined before	09/30/2020, 2:31:05 PM
Deepak Saini	Left	09/30/2020, 2:31:41 PM
Deepak Saini	Joined	09/30/2020, 2:32:38 PM
nimisha20cld002	Joined before	09/30/2020, 2:30:00 PM
Vijay Pratap Singh	Joined before	09/30/2020, 2:30:00 PM
Harpreet Singh	Joined before	09/30/2020, 2:30:00 PM
Akhand Pratap Singh	Joined before	09/30/2020, 2:30:00 PM
Sunder kumar Saini	Joined before	09/30/2020, 2:30:00 PM
Sunil Kumar	Joined before	09/30/2020, 2:31:05 PM
Harish Chandna	Joined before	09/30/2020, 2:30:00 PM
Satish Bohra	Joined before	09/30/2020, 2:30:00 PM
Sanoj Kumar	Joined before	09/30/2020, 2:30:00 PM
Sushil Kumar Verma	Joined before	09/30/2020, 2:30:00 PM
Lalit Kumar	Joined before	09/30/2020, 2:30:00 PM
Ajay Kumar	Joined before	09/30/2020, 2:31:05 PM
vijay budakoti	Joined before	09/30/2020, 2:30:00 PM
Sumit Bhat	Joined before	09/30/2020, 2:30:00 PM
Rohit Pant	Joined before	09/30/2020, 2:31:05 PM
Mahipal Singh Rawat	Joined	09/30/2020, 2:31:10 PM
Ajay Kumar	Joined	09/30/2020, 2:31:19 PM

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Vijender Pal	Joined	09/30/2020, 2:33:13 PM
Pinaki Dutta	Joined	09/30/2020, 2:33:13 PM
jagmohan	Joined	09/30/2020, 2:33:13 PM
Mukesh Kumar	Joined	09/30/2020, 2:33:31 PM
Mahipal Singh Rawat	Joined	09/30/2020, 2:34:22 PM
Harsh Singh Rawat	Joined	09/30/2020, 2:32:56 PM
manmohan	Joined	09/30/2020, 2:36:18 PM
lnjoshi	Joined	09/30/2020, 2:38:58 PM
Deshraj Singh	Joined	09/30/2020, 2:38:58 PM

List of Participant: 26/11/20

Full Name	User Action	Timestamp
Divyabha Vashisth	Joined	11/26/2020, 2:31:05 PM
Sushil Kumar Verma	Joined before	11/26/2020, 2:31:05 PM
lakshi20cld004	Joined before	11/26/2020, 2:31:05 PM
lakshi20cld004	Left	11/26/2020, 2:31:41 PM
lakshi20cld004	Joined	11/26/2020, 2:32:38 PM
nimisha20cld002	Joined before	11/26/2020, 2:31:05 PM
Vijay Pratap Singh	Joined before	11/26/2020, 2:31:05 PM
Harpreet Singh	Joined before	11/26/2020, 2:31:05 PM
Akhand Pratap Singh	Joined before	11/26/2020, 2:31:05 PM
Sunder kumar Saini	Joined before	11/26/2020, 2:31:05 PM
Sunil Kumar	Joined before	11/26/2020, 2:31:05 PM
Harish Chandna	Joined before	11/26/2020, 2:31:05 PM
Satish Bohra	Joined before	11/26/2020, 2:31:05 PM
Sanoj Kumar	Joined before	11/26/2020, 2:31:05 PM
savita20cld003	Joined before	11/26/2020, 2:31:05 PM
Lalit Kumar (Guest)	Joined before	11/26/2020, 2:31:05 PM
Harsh Singh Rawat (Guest)	Joined before	11/26/2020, 2:31:05 PM
vijay budakoti	Joined before	11/26/2020, 2:31:05 PM
Sumit Bhat (Guest)	Joined before	11/26/2020, 2:31:05 PM
Rohit Pant (Guest)	Joined before	11/26/2020, 2:31:05 PM
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Harsh Singh Rawat	Joined	11/26/2020, 2:31:19 PM
Deepak Saini	Joined	11/26/2020, 2:32:29 PM
Vijender Pal	Joined	11/26/2020, 2:33:13 PM
Pinaki Dutta	Joined	11/26/2020, 2:33:13 PM
jagmohan	Joined	11/26/2020, 2:33:13 PM
Deshraj Singh	Joined	11/26/2020, 2:33:31 PM
Mahipal Singh Rawat	Joined	11/26/2020, 2:34:22 PM
Ajay Kumar	Joined	11/26/2020, 2:34:56 PM
manmohan (Guest)	Joined	11/26/2020, 2:36:18 PM
manmohan (Guest)	Joined	11/26/2020, 2:37:32 PM
lnjoshi	Joined	11/26/2020, 2:38:58 PM
Mukesh Kumar	Joined	11/26/2020, 2:38:58 PM
vijay (Guest)	Joined	11/26/2020, 2:39:14 PM
manmohan (Guest)	Joined	11/26/2020, 2:41:00 PM

Training Report

A Technical staff training **on "Hands on to Tinkercad"** was held on 5th Oct, 2020 from 10:00 am to 4 pm. The training was conducted by Faculty Dr Anjali Garg and Dr Mona Aggarwal in Room no 211 and was attended by the technical staff of EECE Dept. The trainers demonstrated how Tinkercad environment can be used to simulate various electrical, electronic circuits and how various experiments can be performed online. The technical staff had good hands-on experience on the software. This training will help them to conduct various labs like Basics of electrical & electronics engineering, Digital Electronics etc. In the end, the session was concluded by taking feedback from the technical staff.

Faculty Coordinators

(Dr. Anjali Garg, Dr. Mona Agarwal)

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Attendance sheet

Date: 5/10/2020 Topic: Tinkercad

Sr.No	Name	Signature
1	Ajay Kumar	
2	Baldev Singh	
3	Deepak Saini	
4	G.S Anand	
5	Nikhilesh Kumar	
6	Pinaki Dutta	

Trainer: Dr. Jayaji Garg, Dr. Mona Agarwal

5/10/2020

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Feedback form
Staff Training on TinkerCad

Organization: The NorthCap University

Date: 5/10/2020

Session: How to use Tinkercad software for circuit designing

1. Was the Trainer/Instructor well prepared?

(a) Excellent (b) Very Good (c) Good (d) Average (e) Poor

2. Did the Trainer respond to questions in an informative, appropriate and satisfactory manner?

(a) Excellent (b) Very Good (c) Good (d) Average (e) Poor

3. How do you overall rate your trainer/s?

(a) Excellent (b) Very Good (c) Good (d) Average (e) Poor

4. How useful is this program for you?

(a) Highly useful (b) O.K. (c) Not useful

5. Will you recommend this program to your friends?

Yes

6. What did you find the most interesting in this program?

Easy and familiar open source software.

7. Do you think this program has been successful in meeting the objectives? If not, list gaps and suggestion for improvements.

— Yes, no gaps.

Name & Signature of Student ANSHUMAN KUMAR Roll No .....

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Feedback form
Staff Training on TinkerCad

Organization: The NorthCap University

Date: 5/10/2020

Session: How to use Tinkercad software for circuit designing

1. Was the Trainer/Instructor well prepared?

   (a) Excellent (b) Very Good (c) Good (d) Average (e) Poor

2. Did the Trainer respond to questions in an informative, appropriate and satisfactory manner?

   (a) Excellent (b) Very Good (c) Good (d) Average (e) Poor

3. How do you overall rate your trainer/s?

   (a) Excellent (b) Very Good (c) Good (d) Average (e) Poor

4. How useful is this program for you?

   (a) Highly useful (b) O.K. (c) Not useful

5. Will you recommend this program to your friends?

   Yes

6. What did you find the most interesting in this program?

   ckt design is easy and helpful in doing experiments.

7. Do you think this program has been successful in meeting the objectives? If not, list gaps and suggestion for improvements.

   yes.

Name & Signature of Student ..Deepak Saini..... Roll No. .....

deepaksaini@ncuindia.edu

Feedback form
Staff Training on TinkerCad

Organization: The NorthCap University

Date: 5/10/2020

Session: How to use Tinkercad software for circuit designing

1. Was the Trainer/Instructor well prepared?

   (a) Excellent ✓(b) Very Good (c) Good (d) Average (e) Poor

2. Did the Trainer respond to questions in an informative, appropriate and satisfactory manner?

   ✓(a) Excellent (b) Very Good (c) Good (d) Average (e) Poor

3. How do you overall rate your trainer/s?

   (a) Excellent (b) Very Good ✓(c) Good (d) Average (e) Poor

4. How useful is this program for you?

   (a) Highly useful ✓(b) O.K. (c) Not useful

5. Will you recommend this program to your friends?

   yes

6. What did you find the most interesting in this program?

   it is use to easy

7. Do you think this program has been successful in meeting the objectives? If not, list gaps and suggestion for improvements.

   it is more better

Name & Signature of Student ...AJAY KUMAR (Ajay) Roll No. ...T0342

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Feedback form
Staff Training on TinkerCad

Organization: The NorthCap University

Date: 5/10/2020

Session: How to use Tinkercad software for circuit designing

1. Was the Trainer/Instructor well prepared?

   (a) Excellent (b) Very Good ✓ (c) Good (d) Average (e) Poor

2. Did the Trainer respond to questions in an informative, appropriate and satisfactory manner?

   (a) Excellent ✓ (b) Very Good (c) Good (d) Average (e) Poor

3. How do you overall rate your trainer/s?

   (a) Excellent (b) Very Good (c) Good ✓ (d) Average (e) Poor

4. How useful is this program for you?

   (a) Highly useful (b) O.K. ✓ (c) Not useful

5. Will you recommend this program to your friends?

   Yes

6. What did you find the most interesting in this program?

   it is use to ciy

7. Do you think this program has been successful in meeting the objectives? If not, list gaps and suggestion for improvements.

   its More improve

Name & Signature of Student ...Baldev Singh.....

Roll No. T0040

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Feedback form
Staff Training on TinkerCad

Organization: The NorthCap University

Date: 5/10/2020

Session: How to use Tinkercad software for circuit designing

1. Was the Trainer/Instructor well prepared?

   (a) Excellent (b) Very Good (c) Good (d) Average (e) Poor

2. Did the Trainer respond to questions in an informative, appropriate and satisfactory manner?

   (a) Excellent (b) Very Good (c) Good (d) Average (e) Poor

3. How do you overall rate your trainer/s?

   (a) Excellent (b) Very Good (c) Good (d) Average (e) Poor

4. How useful is this program for you?

   (a) Highly useful (b) O.K. (c) Not useful

5. Will you recommend this program to your friends?

   Yes.

6. What did you find the most interesting in this program?

   Relating circuit with software was good.

7. Do you think this program has been successful in meeting the objectives? If not, list gaps and suggestion for improvements.

   Yes.

Name & Signature of Student ..... Roll No. T-0536

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Feedback form
Staff Training on TinkerCad

Organization: The NorthCap University

Date: 5/10/2020

Session: How to use Tinkercad software for circuit designing

1. Was the Trainer/Instructor well prepared?

   (a) Excellent (b) Very Good (c) Good (d) Average (e) Poor

2. Did the Trainer respond to questions in an informative, appropriate and satisfactory manner?

   (a) Excellent (b) Very Good (c) Good (d) Average (e) Poor

3. How do you overall rate your trainer/s?

   (a) Excellent (b) Very Good (c) Good (d) Average (e) Poor

4. How useful is this program for you?

   (a) Highly useful (b) O.K. (c) Not useful

5. Will you recommend this program to your friends?

   Yes.

6. What did you find the most interesting in this program?

   Good app for 3D design fluidsim.

7. Do you think this program has been successful in meeting the objectives? If not, list gaps and suggestion for improvements.

   Yes.

Name & Signature of Student ..... Roll No. .....

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REPORT

on

Faculty Development Program
on

"New Digitally Enhanced Education 2.0"

(5th July 2021 to 12th July 2021)

THE NORTHCAP UNIVERSITY

POWERED BY

Arizona State University

THE NORTHCAP UNIVERSITY, GURUGRAM-122017

THE NORTHCAP UNIVERSITY
POWERED BY
Arizona State University

QS STARS RATING SYSTEM
TEACHING EMPLOYABILITY ONLINE LEARNING 2021

NEW DIGITALLY ENHANCED EDUCATION 2.0

FACULTY DEVELOPMENT PROGRAM

With this exclusive program, we hope to make our educators advanced and skilled for the Digital Era of Education and work towards making NCU "a Digital First University". Be a part of this journey towards technological and pedagogical aspects of hybrid teaching.

PANEL MEMBERS

Prof. Prem Vrat
Pro Chancellor, Chairman, Advisory Board
& Chief Mentor, The NorthCap University

Prof. Milind Padalkar
Pro Chancellor (Operations)
The NorthCap University

Prof. Nupur Prakash
Vice Chancellor
The NorthCap University

Prof. Swaran Ahuja
Dean Academics
The NorthCap University

Dr. Agueda Benito
Chief Academic Officer
Cintana Education, USA

Mr. Neel Broker
President, Asia-Pacific
Cintana Education, USA

Dr. Aiman Kazybayeva
Assoc. Prof. & Head of Neuromarketing Lab
AlmaU, Kazakhstan

Dr. Alberto Moreno Melgarejo
Academic Secondment
UIDE, Ecuador

Dr. Anbu Rathinavel
Chief Design Officer
SODT, Chennai, India

Mr. Ramakrishnan V.
Vice President
SODT, Chennai, India

Prof. Kavita Khanna
Head of Department
Dept. of CSE, The NorthCap University

PROF. REKHA VIG
Dept. of CSE
Dy. Dean (Academics), The NorthCap University

5th - 10th July 2021

Table of Contents

S No	Contents	Page No
1	Introduction	1
2	Day Wise Report of the Sessions Conducted	1
3	Faculty Feedback on FDP	17
4	Annexure I - FDP Schedule	20
5	Annexure II – FDP Attendance	-
6	FDP Recording Links	22

Report on Faculty Development Program

1. Introduction

The six-day Faculty Development Program was designed to make our educators advanced and skilled in technological and pedagogical aspects of hybrid teaching and work towards making NCU "**Digital First University**".

The objectives were to enhance the teaching- learning pedagogy through online course, sessions, workshops and competitions and to create awareness on

- Different course design strategies.
- Hybrid Teaching in the teaching- learning pedagogy
- Various strategies for engaging and motivating students in a range of different online learning scenarios.
- Effective assessments and evaluations and present various methods to conduct both formative and summative assessments.
- Creating curiosity through Design Thinking.
- Stress Management.

The sessions of the FDP were planned to meet the desired objectives. Schedule of the FDP has been enclosed.

2. Day-wise Report of the Sessions Conducted

A. Monday 05th July 2021

i) Inaugural of Online Canvas Course 'From Teacher to Designer: A Holistic Approach towards Hybrid Teaching' (09:30-10:00 AM):

Prof. Kavita Khanna, Convener and Head of the Department, CSE, NCU, gave an introduction to *Online Canvas Course 'From Teacher to Designer: A Holistic Approach towards Hybrid Teaching'*. She has also explained the importance of wide-ranging modules of the course in paradigm shift of education from traditional ways to online and hybrid ways of teaching.

Prof. Rekha Vig, Convener and Professor (CSE) and Dy. Dean (Academics), shared the details of Module 1: Teaching as an art: How to make it beautiful. This module covers effective course design strategies. It also encompasses the relevance of meaningful feedbacks, importance of office

hours and TED talks on Online Learning. Prof. Vig has also explained the importance of Module-2 i.e. 'Effective Video Recording'. The module presents useful resources to record videos effectively for content preparation and development.

Dr. Poonam Chaudhary, Co-Convener and Assistant Professor, CSE deptt. highlighted the topics and their importance of the Module 3: Effective Student Engagement. It explores various strategies for engaging and motivating your students in a range of different online learning scenarios. Dr. Pooja Sapra Co-Convener and Assistant Professor CSE deptt. enlightened the audience with highlights of module 4: Assessments and Evaluations. It examines the importance of evaluating online teaching practice to ensure that it is effective and to give an opportunity to constantly improve.

Prof. Swaran Ahuja, Dean Academics declared the course open and shared his views on the course. He enlightened the audience about online course in terms of project execution as concept to commissioning:" conceptualizing and developing an idea into user ready implementation".
He gave his blessings and wishes for successful completion of the course and FDP as well.

ii) Self-paced Independent Activity (10:00 AM-05:00 PM):

Rest of the day was planned for self-paced independent activity to complete the designed course by all faculty members.

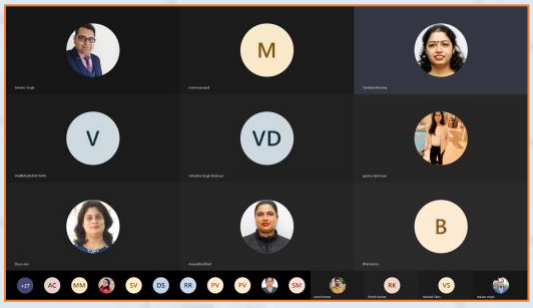
B. Tuesday 06th July 2021

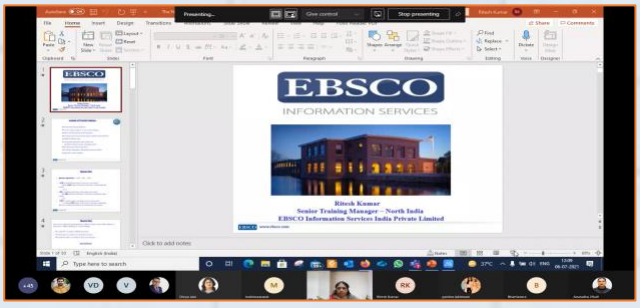
i) Self-paced Independent Activity (9:30AM – 12:00PM):

A self-paced independent activity to complete the designed course was planned for the day. All faculty members were required to complete the course.

ii) Session on Effective Usage of EBSCO Discovery Service platform and Academic Search Complete and eBook Academic Collection Databases (12:00PM-1:00PM):

The Central library of The NorthCap University has taken subscription of the EBSCO Discovery service and databases, with some complimentary access from EBSCO. This session was organized by Dr. Vandana Khanna (Chairperson Library Sub-committee) to make faculty members of the university aware of the features and facilities provided by EBSCO. The speaker of the session was Mr. Ritesh Kumar, Senior Training Manager, North India, EBSCO Information Services, conducted this session.





Topics covered during the session were: how to access the database, Basic and advanced search strategies, EBSCO Discovery Service, Creating your own personal space on the platform, Creating, Managing and Sharing Personal Folders, EBSCO Mobile App, EBooks online and offline download, Navigating through search results, Exporting Bibliographic records and quick citations, Publication Finder (Patron-facing interface for locating journals and eBooks in an institution's collection) etc.

iii) Session Self-paced Independent Activity (01:00 PM-05:00 PM):

A self-paced independent activity to complete the designed course was planned for the day. All faculty members were required to complete the course.

C. Wednesday 07th July 2021

i) Inaugural Session (9:30AM – 11:00AM):

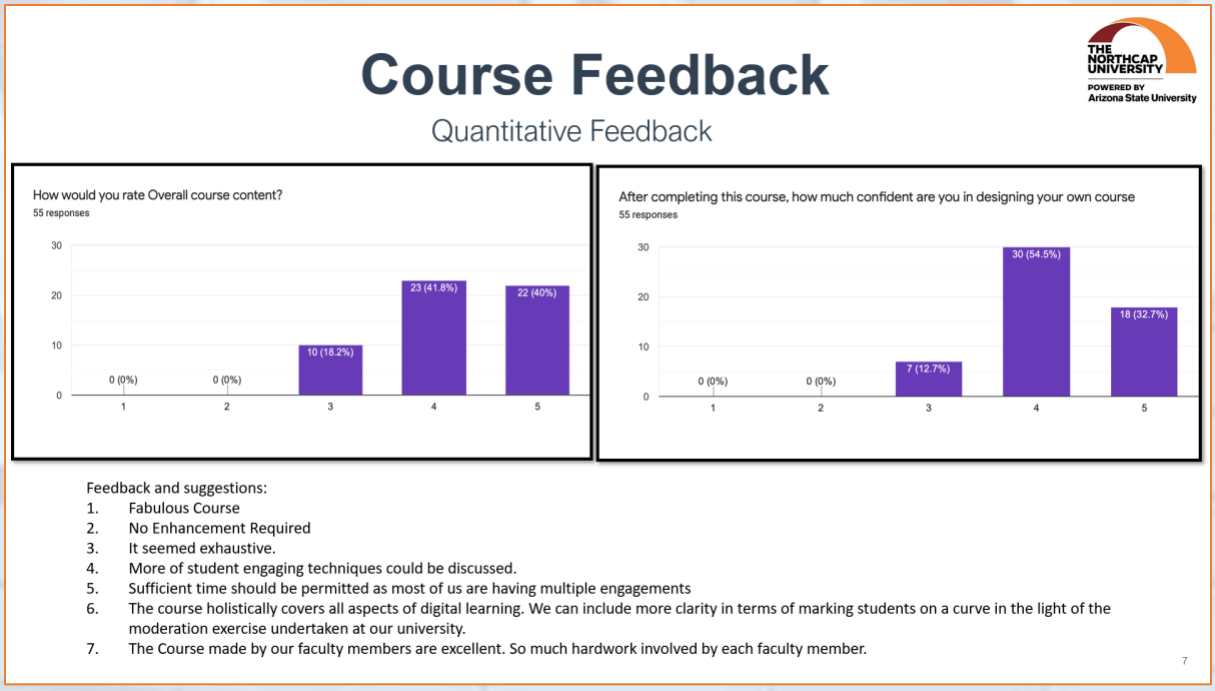
The inaugural session was held in auditorium, NCU. Ms. Deepika, Dy.

Manager HR gave a wonderful introduction to the FDP and the FDP was started on an auspicious note by paying respect to the Goddess of Learning and Saraswati Vandana and Lamp Lightening.

In their Inaugural Speeches Prof Prem Vrat, Pro Chancellor, NCU and Prof Nupur Prakash, Vice Chancellor, NCU encouraged and motivated the faculty to explore all possible ways to enhance the hybrid and online teaching experience of both faculty and students.

A presentation on various technical and pedagogical aspects of teaching learning process in Online teaching scenario and way forward at NCU was delivered by Dr. Kavita Khanna and Dr. Rekha Vig, CSE Department. They shared the details about how teachers can enhance and advance their skills in shift of education from traditional to online and hybrid ways of teaching.

The conveners presented the highlights of the FDP. They also discussed the objectives of FDP and ways of achieving the defined objectives through online course, sessions, workshops and competitions designed throughout the 6 days of FDP. They also presented the feedback provided by the faculty members on the Online Canvas Course 'From Teacher to Designer: A Holistic Approach towards Hybrid Teaching' in previous two days of FDP.

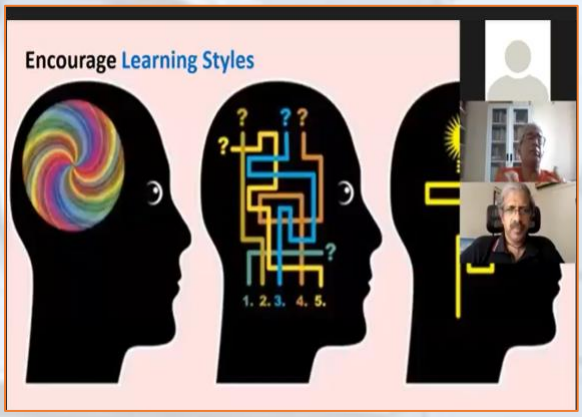


Dr. Shaveta Arora and Ms. Hitesh Yadav from CSE department, steered the audience with a refresher session. Dr. Shaveta explained that acupressure is an ancient healing art using the fingers to gradually press key healing points, which stimulate the body's natural self-curative abilities and Ms. Hitesh demonstrated some activities to activate these acupressure points on hands. The session energized the audience with positive energy.

ii) Keynote Session 1: Creating a Culture of Curiosity (11:30AM- 12:30PM):

Dr.Anbu Rathinavel, Head and Co-founder, School of Design Thinking and Dr. Ramakrishnan V. , Vice President at Intellect Design Arena Ltd. delivered a session as a part of Faculty Development Programme on 07th July 2021 on the theme "***Creating a Culture of Curiosity***". They focused on cultivating a Culture of Curiosity among students to overcome today's challenges and to create more agile and flexible learning environment. In

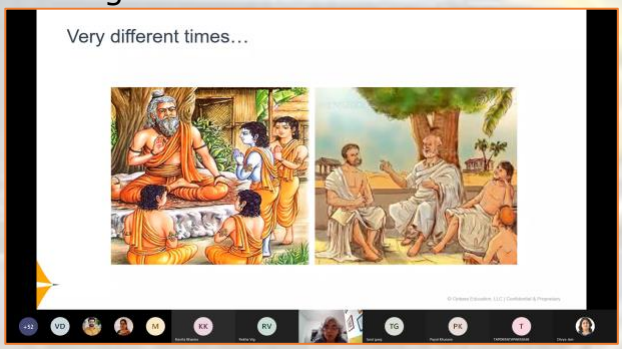
session they explained how curious mindset is defined as one that seeks new information and experiences with the help of ancient European folk story “Stone Soup”.



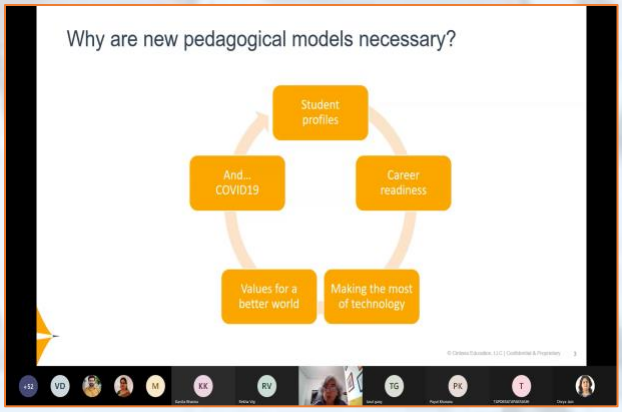
They suggested faculty to encourage curious questioning and logical reasoning between students. Promote a culture where students are not scared or apprehensive to speak up about sharing knowledge and ideas. And as a result, students will produce more useful information among a highly energizing class. The session ended leaving the participants with recommendations to allow students to ask curious questions and practice each kind of question in daily class.

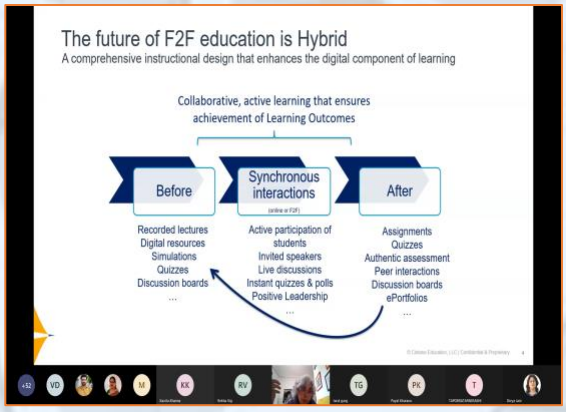
iii) Keynote Session 2: New Models of Classroom Engagement and Learning Effectiveness (1:30PM- 2:30PM):

Session on ‘New Models of Classroom Engagement and Learning Effectiveness’ was conducted by Dr. Agueda Benito of Cintana Education. She started her session with ancient way teaching in India as well as in Greece where Indian Gurus and Greece Philosopher chooses their disciples themselves and teach values and knowledge without books.



Then, she addressed the need of pedagogical models for this new digital era of education. The employers have more expectations from universities to give outcome-based study and industry ready students who are already trained. She has talked about AI based teaching learning effectiveness (WEB 3.0) where teachers can know more about student’s performance, attendance and their intension about particular session with the help of AI.





She explained the future of Face-to-Face education is Hybrid teaching that includes collaborative and active learning to enhance the digital compenent of learning. This session enlightened the participants that how positive leadership in teaching learning (T&L) process can increase faculty-student engagement, increased student satisfaction, reduce attrition and improved learning effectiveness and academic achievements.

iv) Quiz Competition on Online Course, 'From Teacher to Designer: A Holistic Approach towards Hybrid Teaching' (2:30PM-3:00PM)

A competitive quiz was assigned to all the faculty members who have completed the Online Course, 'From Teacher to Designer: A Holistic Approach towards Hybrid Teaching' in first two days of FDP. They were asked to attempt the quiz on CANVAS LMS itself during this session. The quiz was planned to give them an experience that how student engagement activities in online learning environment benefit the learning process.

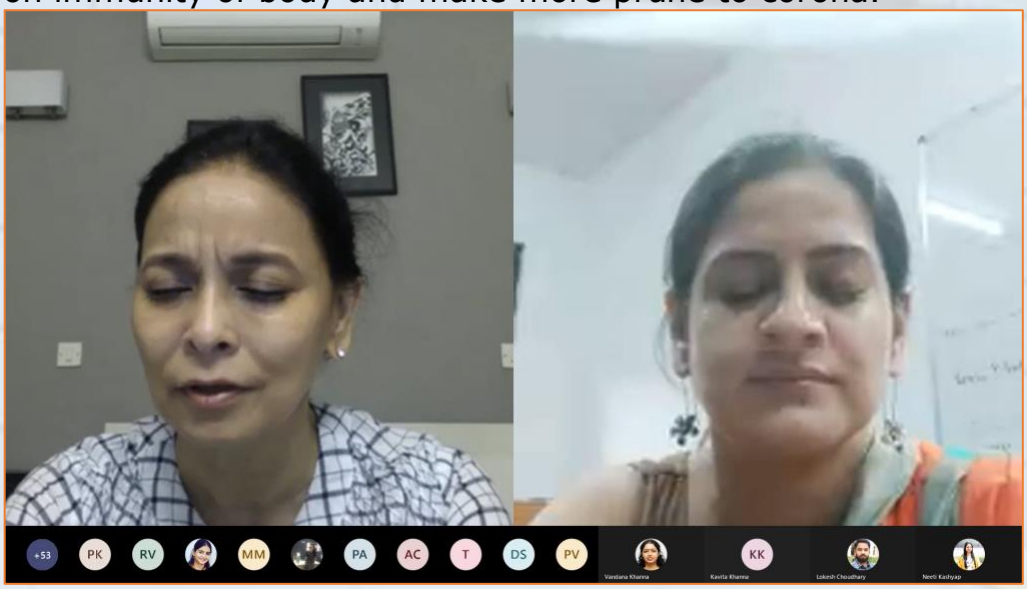
v) Stress Management Session (3:30PM-4:30PM) by The Art of Living Trainer Ms Atika Dhandia (TedX Speaker) organized by Ms. Deepika Bishnoi, HR NCU

In view of the ongoing challenges, a Stress Management Session was organized by The Art of Living Trainer Ms Atika Dhandia (TedX Speaker) with sole aim to address current issues faced by majority of our employees and teach them guided meditation techniques.

The overview of the session is as follows:

1. Lung Health in COVID-19 Pandemic: The largest organ of human body is lung. The lung immunity or lung health is very important in the time of this pandemic. Lungs help us to detoxify the ourselves. She guided on how to do breathing properly to make lungs healthy.

2. Mental Health in COVID-19 Pandemic: More than 40-45% of people are affected with mental health problems in the form of depression, anxiety, aggressiveness and others. The metal health directly impacts on immunity of body and make more prune to corona.



She made participants aware about adrenal fatigue. Adrenal glands, which are small organs above kidneys, respond to stress by releasing hormones like cortisol and adrenaline. Overproduction of these hormones creates adrenal fatigue. This leads to many health problems. Ms. Dhandia gave some mediation tips for improving the mental health.

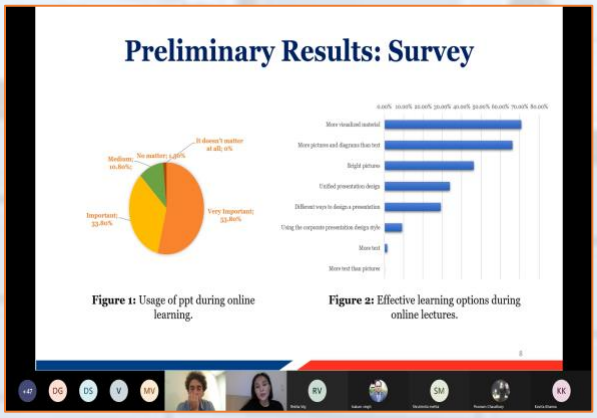
The session encouraged active engagement with all participants as they virtually connected and practiced various exercises and stress relieving techniques.

D. Thursday 08th July 2021

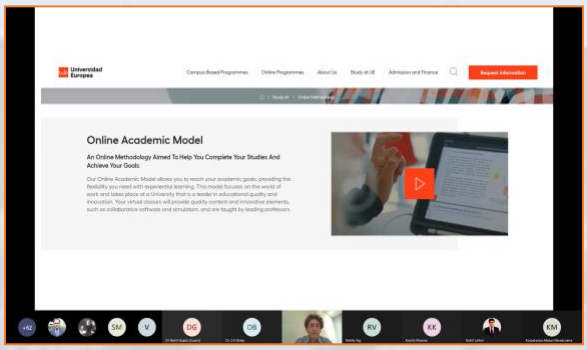
i) International Practices: Online Models and Course Design Strategies (9:30AM -10:30AM)

The session was given by Dr. Alberto Moreno UIDE, Academic Secondment

Ecuador and Dr. Aiman Kazybayeva, associate professor and the head of Neuromarketing lab, AlmaU, Kazakhstan. Dr. Aiman Kazybayeva started the session with introduction of her university and their international recognition. She has demonstrated the results of their research of face reading and emotions of the students at their university in online environment. She demonstrated the preliminary results of the survey they conducted at their lab. She explained the usage of ppt during online learning and effective learning options during the online lectures. She also bifurcated the emotion on the basis of gender (male/female).



The session was continued by Dr. Alberto Moreno UIDE, Ecuador. He introduced his university and welcomed the participants for his online research project. He presented their online academic model aimed to help to complete the studies. He introduced the European Credits Transfer System and online content development by course coordinator, field expert and instructional designer.

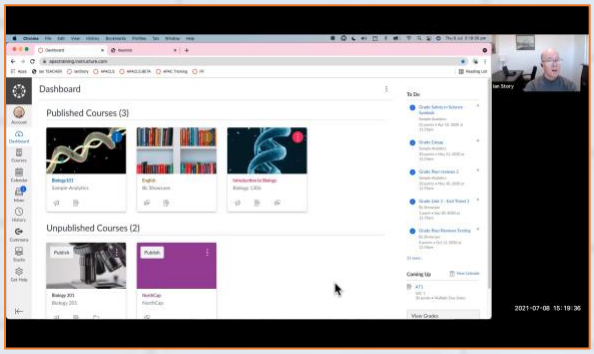


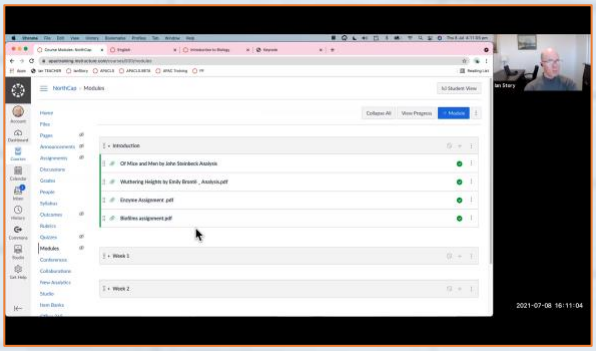
They are having streaming master class of 5-10 minute videos and a synchronous class of 1 hour 30 minute/ week. They have 17 weeks per semester and 2 semester per year. They use educational tools, power point presentations, text information, podcast, videos, case studies, interviews, guest lectures, simulators, pictures, concept mappings, infographics and many more in their online academic model. They have online administrator to monitor student's performance. He covered the faculty development, assessment, online toolkit and answered the questions of curious

participants. The session has provided more thought-provoking and enlightening ways of online teaching.

ii) Canvas Training, I by Dr. Ian Story, learning consultant, Asia Pacefic (10:30AM -12:30PM)

The Northcap University has implemented their new learning management systems (LMS) as Canvas. This session was planned to give an across-the-board training to all faculty members for preparedness of coming academic session in online environment. The session was steered by Dr. Ian Story, learning consultant, Asia Pacific. Canvas is a web-based learning management system, or LMS. It is used by learning institutions, educators, and students to access and manage online course learning materials and communicate about skill development and learning achievement. Canvas includes a variety of customizable course creation and management tools, course and user analytics and statistics, and internal communication tools.





Dr. Story covered the following topics:

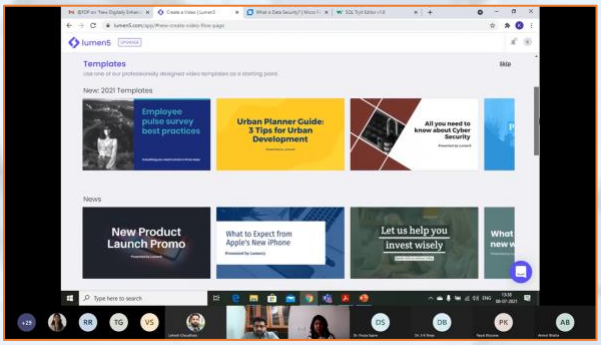
1. Overview of Canvas
2. Building a Canvas Course
3. Structuring a course with modules
4. Uploading the files
5. Adding the content
6. Copying the content
7. Communication with students
8. Adding assignments

He explained the process of building course modules and adding content and putting links beautifully and in easy-to-understand manner. He ended the session with the information that mostly canvas is a very easy to use system and there's lots of help and support in canvas community.

iii) Workshop on Video Creation and Editing (1:30PM - 2:30PM)

Mr. Sumit Kumar and Ms. Kanika Gupta were the speakers for the session. They spoke about "How to make videos and how to make lectures attractive". Ms. Kanika Gupta started the session by talking about the tool

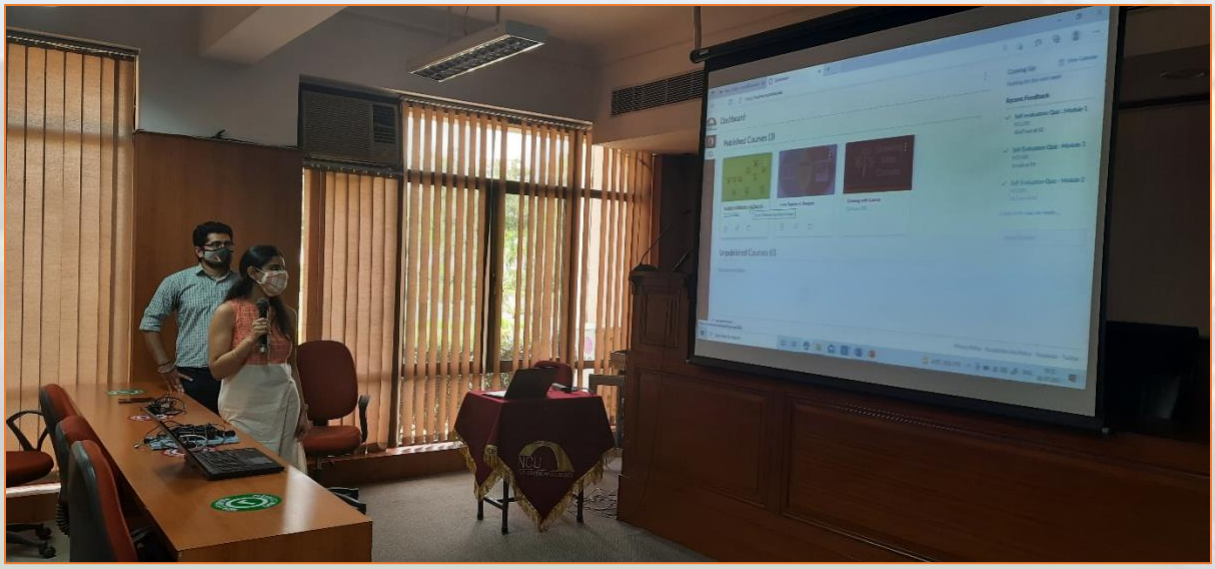
"Lumen5" which is an online tool that helps to create short videos which can be incorporated in the course content. Ms. Gupta then took up the questions/queries regarding this tool.



In the next half of the session Mr. Sumit Kumar talked about the Microsoft Video Editor which comes bundled in Microsoft Photos App but comes pre-installed in Windows10. Mr. Kumar shared insights about editing the videos using this app. He also talked about other alternatives like Davinci Resolve 17 which is a free open-source alternative, Filmora which is not open source but is free for use for a period of one month. Later he took up the queries of the faculty members. The session was very interesting as well as informative.

iv) Canvas Training II & Doubt Clearing Session (3:00PM - 5:00PM)

This session was taken by super users of Canvas from NCU. The super users supported the faculty members in understanding the process of creation of course on canvas and cleared their doubts.



They also provided the guidelines to include during the creation of course. This session was conducted in respective departments only. It was in both offline and online mode. In the end of the session, participants were ready to create their own course for upcoming sessions.

E. Friday 09th July 2021

i) Workshop on Course Content Creation and Upload on Canvas (9:30AM – 12:30PM)

The workshop was conducted by the respective departments to work on the Design of the LMS, Assignments and Quizzes for the courses for upcoming academic session. This self-paced group activity helped the departments to complete the LMS, assignments and quizzes design for all the courses for the upcoming semester.

ii) Intra-department Competition on "Introductory Video and Uploaded Content on CANVAS" for NCU regular courses (1:30PM - 4:30PM)

In continuing the previous session, each department of all schools were asked for identifying the best LMS in the department to be showcased for inter-department competition on the last day of FDP.

iii) Inter-departmental Competition on "Introductory Video and Uploaded Content on CANVAS" for courses mapped with ASU (3:30 PM - 5:30 PM)

This session was parallelly conducted by FDP conveners and co-conveners.

The competition was between the all departments from each school of NCU for ASU mapped course category.

Following are the details of each course presented in the competition:

School	Department	Course name	Course Code	Faculty Name
SOM	SOM	Principle of Economics	ENL102	Dr. Shaveta
SOM	SOM	Introduction of Marketing Management/ Marketing Management	DSL207/SML135	Dr. Akshataditya
SOL	SOL	Cyber Law	SLL468	Dr. Vishakha
SOET	ME	Project Management	MEL613IP	Dr. Roshan
SOET	ECE	Digital electronic and computer architecture	ECL255	Dr. Pooja Sabarwal
SOET	CSE	Data Structures	CSL209	Dr. Pooja Sapra
SOET	APS	Fundamental of Maths	MAL101N	Dr. Tarul garg

F. Monday 12th July 2021

i) Inter-department Competition on "Introductory Video and Uploaded Content on CANVAS" (Regular NCU Courses) (9:30AM – 12:00PM)

This session was parallelly conducted by FDP conveners and co-conveners. The competition was between all departments from each school of NCU for Regular NCU course category.

Following are the details of each course presented in the competition:

School	Department	Course name	Course Code	Faculty Name
SOM	SOM	Human Resource Management	BSL201	Ms. Mahima Anand
SOM	SOM	Financial Institutions and Market	SML344	Dr. Esha Jain
SOM	SOM	Introduction to Organization Behaviour	BSL202	Ms Jiveta Chaudhary Grover
SOL	SOL	Constitutional Law-I	LBL211	Himangshu Rathee
SOL	SOL	Gender, Society and Law	LBL428	Arushi Anthwal
SOET	Mechanical	Supply chain Management	MEL462	Anmol Bhatia
SOET	ECE	Image Processing and Computer Vision	ECL451	Ms Amanpreet Kaur
SOET	CSE	Enterprise Web Applications	CSL273	Mr. Sumit Kumar
SOET	CSE	Programming for Data Sciences	CSL225	Dr. Ashwini and Dr. Divya Jain
SOET	CSE	Game essential and asset creation	CSL243	Ms. Nisha and Dr. Neeti
SOET	APS	Mathematical Methods	MAL247	Dr. Astha Chauhan
SOET	CLL	German 1	CLL220	Ms. Komal Kalia
SOET	Civil	Air Pollution and Control	CEL314	Dr. Vaishali Sahu

ii) Valedictory Session (2:30PM - 3:30PM)

The valedictory session comprised of the following activities:

i) Interaction with Mr. Neel Broker, President, Asia Pacific, Cintana Education (2:30 PM-2:55PM)

Dr. Rekha and Dr. Kavita interacted with Mr. Neel Broker about question which need to be addressed with respect to current digital era of education. Mr. Broker has addressed components of smart digitally enhanced education. It's a combination of knowledge, intelligence, technology, the robust communication infrastructure and policy environment.

He also told that willingness and innovation with recognition of technology would stay during the education transformations in current scenario. He answered that Networking between university across the globe can further reduce the gap and enhance the education and learning. The interaction reached to end by discussing about the aspects of hybrid teaching with aspiration, innovation, efforts and collaboration.

ii) Best CANVAS LMS prize distribution (2:55PM -3:30PM)

During FDP, faculty prepared CANVAS LMSs as preparation for the next semester. The competition was carried out in two categories: (i) ASU-Mapped Courses, (ii) Regular NCU Courses. A panel of judges was made comprising Prof. Manjula Batra, SOL, Dr. Nitin Malik, Associate Professor, CSE, Dr. Anjali Garg, Associate Professor, EECE, Prof. Nimit Gupta, SOM and Dr. Rohit Lather, HOD and Associate Professor, Mech as our esteemed judges for both the categories.

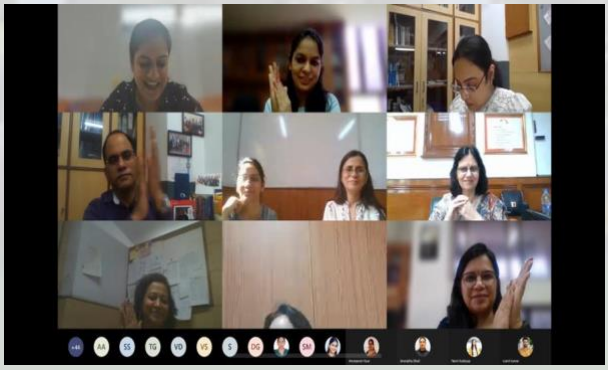
Prof. Manjula Batra	Dr Nitin Malik	Dr Anjali Garg	Prof. Nimit Gupta	Dr. Rohit Singh Lather
Professor, SOL, NCU	Associate Professor, CSE, SOET, NCU	Associate Professor, EECE, SOET, NCU	Professor-Marketing, SOM, NCU	HOD & Associate Professor, ME, SOET,NCU

The top two best CANVAS LMS for online delivery in ASU mapped courses category - prizes were announced by the Honorable Vice-Chancellor for those who did excellent presentations in the respective categories during the FDP.
The results of the competitions are as follows:

Inter-Department Competition On LMS Creation - ASU MAPPED COURSES:

POSITION	NAME	DEPARTMENT	Course Name	MARKS
I	Dr Pooja Sabharwal	ECE, SOET	Digital Electronics and Computer Architecture	397.5/500
II	Dr Pooja Sapra	CSE, SOET	Data Structures	364/500

The top three best CANVAS LMS for online delivery in Regular NCU courses category- prizes were announced by the Honorable Vice-Chancellor for those who did excellent presentations in the respective categories during the FDP.



The results of the competitions are as follows:
Inter-department Competition on LMS Creation - REGULAR COURSES:

POSITION	NAME	DEPARTMENT	Course Name	MARKS
I	Ms. Jiveta Chaudhary	SOM	Organizational Behavior	393.5/500
II	Mr. Sumit Kumar	CSE, SOET	Enterprise Web Application	387.5/500
III	Ms. Amanpreet Kaur	ECE, SOET	Image Processing	374.5/500

iii) Prizes for Quiz Competition on Online Course, 'From Teacher to Designer: A Holistic Approach towards Hybrid Teaching'

A competitive quiz was designed on Day 3 of FDP and asked to attempt the quiz on CANVAS LMS itself during this session. The top three best scorer were announced by the Honorable Vice-Chancellor.
The results of the competitions are as follows:

Quiz On Course, "FROM TEACHER TO DESIGNER: A Holistic Approach Towards Hybrid Teaching":

POSITION	NAME	DEPARTMENT	MARKS
I	Dr Neeti Kashyap	CSE, SOET	20/20
II	Dr Anuradha Dhull	CSE, SOET	20/20
III	Ms Prerna Singhal	CSE, SOET	19/20

iv) Feedback by Dept Representatives:

An online feedback form has been shared with all participants to capture their experience and concerns, which is compiled through google forms for future use.

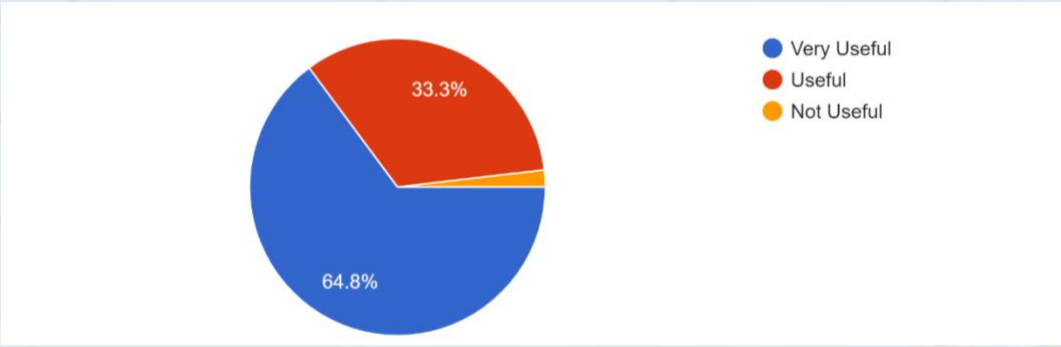
Apart from this, during the interaction on MS Teams, one representative from each dept was invited to share their experience and learnings. The aim was to know what went great and what could be fine-tuned in future. The following representatives spoke on behalf of their respective departments:

APS: Dr Tarul Garg, CLL: Dr. Payal Khurana, Civil: Dr. Vaishali Sahu, CSE: Ms Hitesh, ECE: Dr Anjali Garg, MECH: Mr. Anomol Bhatia, Law: Ms. Shiksha Dahiya.

3. Faculty Feedback on FDP

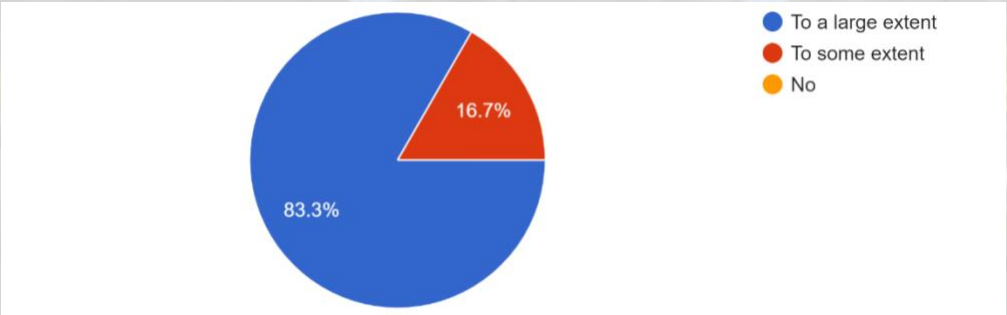
Participants - A total of **85 faculty** from SOET, SOM, SOL and APS out of approx. 56 faculty members participated in the survey conducted during the valedictory session.

- **How useful was the FDP in preparing you for hybrid teaching in upcoming semester**



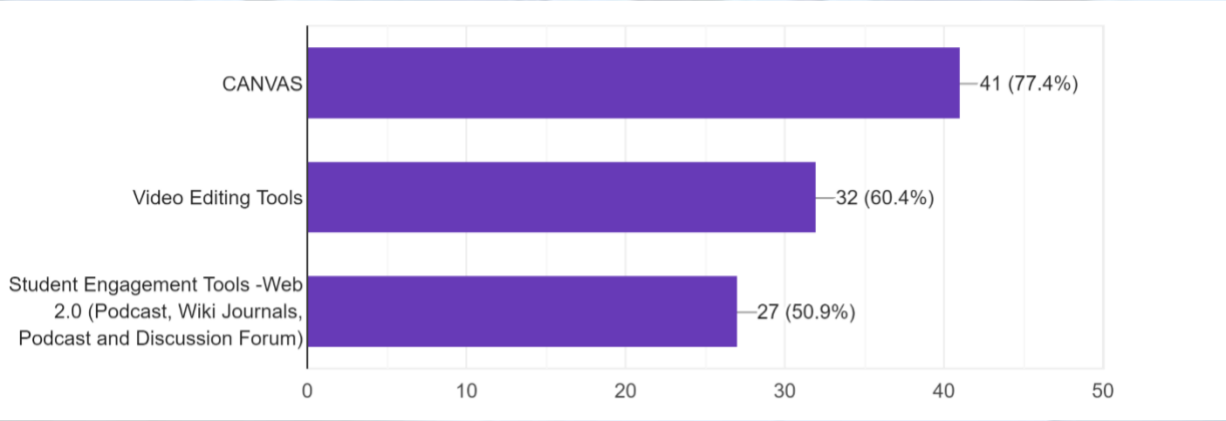
Unanimously majority of faculty members found this FDP to be either useful or very useful

- **Was the program successful in meeting its objectives?**

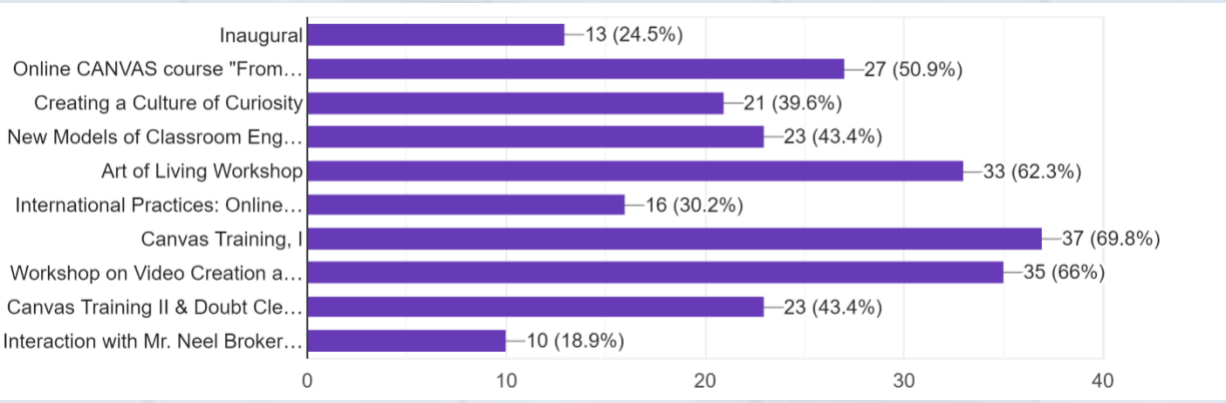


Majority of the faculty believed this FDP was successful in meeting its objectives. Not even a single faculty has disagreed to it.

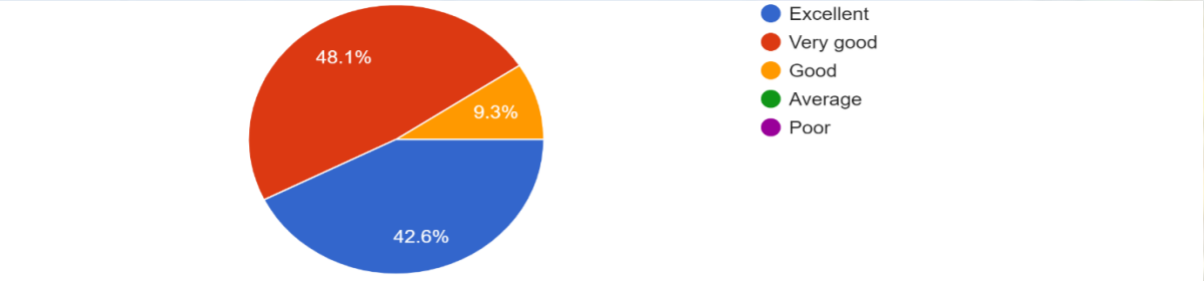
- **Which Online tool/s did you find most interesting?**



- **Which session did you find most interesting?**



- **How would you overall rate the FDP?**



Around 91% faculty have rated this FDP as very good or excellent. Rest 9% have rated it under good category

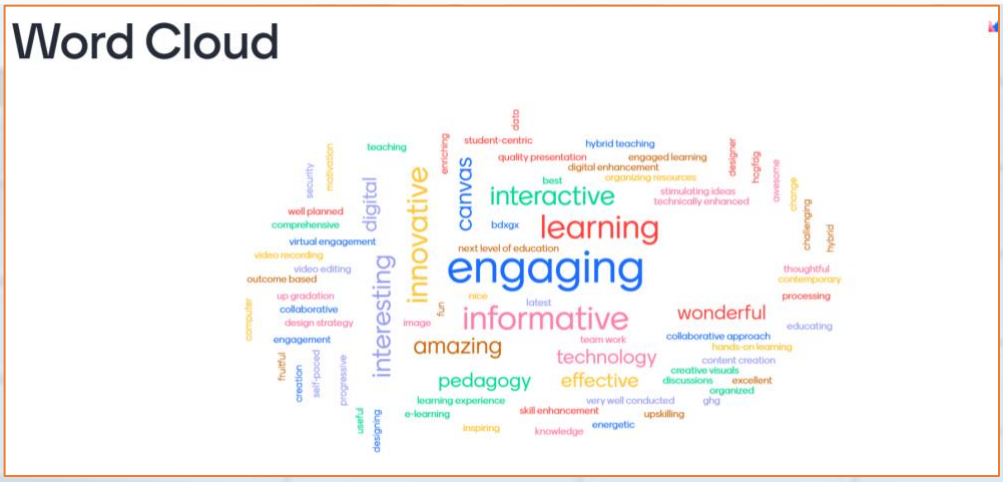
Positive Feedbacks

- ✓ such FDPs should happen every year
- ✓ Overall engaging
- ✓ It was all good and great learning
- ✓ It was well organised.
- ✓ Overall, very informative sessions

- ✓ FDP was very helpful
- ✓ Awesome

Suggestions

- ✓ In order to actively involved in the FDP, a reasonable time should be given to faculty to adopt a new platform or process.
- ✓ More flexibility and freedom to the faculty members to design their courses online.
- ✓ Time is very less. everyone is very busy in exams and result. So, try to organize such beneficial FDP when everyone is free, not so much busy in such type of activity.
- ✓ Emphasis on RBT



Conclusion:

The FDP has been successfully organized. The defined objectives were achieved to enhance the teaching-learning pedagogy through online course, sessions, workshops and competitions and to create awareness.

The outcomes of the FDP are as follows:

- Development of Canvas Course by all faculty for the upcoming semester
- Enhanced Teaching Learning
- Introducing Hybrid Teaching in the pedagogy
- Preparation of faculty for improved student engagement

The NorthCap University, Gurugram

Presents

UNIVERSITY LEVEL FACULTY DEVELOPMENT PROGRAM

on

"New Digitally Enhanced Education - 2.0"

Duration: 5th -12th July, 2021

Conveners: Prof. Rekha Vig and Prof. Kavita Khanna
Co-conveners: Dr. Pooja Sapra and Dr. Poonam Chaudhary

JOIN THE FDP: Join Microsoft Teams Meeting Link

Prerequisite – Readiness of Course Contents (PPT, Assignments, Quizzes, Videos) to be uploaded on Canvas**.**

SCHEDULE

TIME	SESSION DETAILS/ TOPIC	SPEAKER(S)	MODE
Monday, 5th July 2021			
9:30AM - 10:00AM	Inauguration of the Online Canvas Course 'From Teacher to Designer: A Holistic Approach towards Hybrid Teaching'	Prof Rekha Vig and Prof Kavita Khanna	Online
10:00AM – 5:00PM	Online Course 'From Teacher to Designer: A Holistic Approach towards Hybrid Teaching' (To be completed by all faculty) on Canvas.	Self-Paced	Independent work
Tuesday, 6th July 2021			
9:30AM – 12:00PM	Online Course 'From Teacher to Designer: A Holistic Approach towards Hybrid Teaching' (To be completed by all faculty) on Canvas.	Self-Paced	Independent work
12:00PM-1:00PM	Training session on EBSCO Discovery Service, Academic Search Complete and EBook Academic Collection databases and Mobile App subscription taken by NCU.	Mr. Ritesh Kumar, Senior Training Manager, North India, EBSCO Information Services	Online
1:000PM – 5:00PM	Online Course 'From Teacher to Designer: A Holistic Approach towards Hybrid Teaching' (To be completed by all faculty) on Canvas.	Self-Paced	Independent work
Wednesday, 7th July 2021			
9:30AM - 10:30AM		Welcoming Dignitaries and Introducing FDP	Offline

10:30AM - 11:00AM	Inaugural Session	Addresses by Prof. Prem Vrat, Pro Chancellor, Prof Milind Padalkar, Pro Chancellor (Operations), Prof Nupur Prakash, Vice Chancellor, Conveners and Co-conveners		(Auditorium)
11:00AM- 11:30AM	HIGH-TEA			
11:30AM- 12:30PM	Inaugural Session	Keynote Session 1: Creating a Culture of Curiosity	Dr. Anbu Rathinavel and Mr. Ramakrishnan V., School of Design Thinking, Intellect Design Arena, Chennai	Online (Auditorium)
12:30PM-1:30PM	LUNCH BREAK			
1:30PM- 2:30PM	Keynote Session 2: New Models of Classroom Engagement and Learning Effectiveness		Dr. Agueda Benito, Chief Academic Officer - Cintana Education	Online
2:30PM-3:00PM	Quiz Competition on Online Course, 'From Teacher to Designer: A Holistic Approach towards Hybrid Teaching'			
3:00PM – 3:30PM	BREAK			
3:30PM-4:30PM	Art of Living Workshop		Ms. Aticka Dhandia, Art of Living Foundation (AOLF)	Online
Thursday, 8th July 2021				
9:30AM -10:30AM	International Practices: Online Models and Course Design Strategies		Dr. Alberto Moreno UIDE, Ecuador and Dr. Aiman Kazybayeva, AlmaU, Kazakhstan	Online
10:30AM – 11:00AM	BREAK			
11:00AM -1:00PM	Canvas Training, I		Canvas Team	Online
1:00PM- 2:00PM	LUNCH BREAK			
2:00PM - 3:00PM	Workshop on Video Creation and Editing		Mr. Sumit Kumar, Ms. Kanika Gupta, CSE	Online
3:00PM - 5:00PM	Canvas Training II & Doubt Clearing Session		Super Users, NCU	Online
Friday, 9th July 2021				

9:30AM – 12:30PM	Course Content Creation and Upload on Canvas	Faculty Members	Self-Paced Group Activity
12:30PM - 1:30PM	LUNCH BREAK		
1:30PM - 4:30PM	Intra-department Competition on “Introductory Video and Uploaded Content on CANVAS”	Faculty Members	Online
3:30PM - 5:30PM	Competition on “Introductory Video and Uploaded Content on CANVAS” for courses mapped with ASU	Faculty Members	Online
Monday, 12th July 2021			
9:30AM – 12:00PM	Inter-department Competition on “Introductory Video and Uploaded Content on CANVAS”	Faculty Members	Online
2:30 PM- 3:30PM	Valedictory and Prize Distribution	Faculty Members	Online

6. RECORDING LINKS: Google Drive Link

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

(A Statutory body under Ministry of HRD, Govt. of India)
Nelson Mandela Marg, Vasant Kunj, New Delhi-110070
Website: www.aicte-india.org

AICTE TRAINING AND LEARNING (ATAL) ACADEMY, (ONLINE FDP)

F. No. 01/AICTE/ATAL-HQ/2021-22/1614668652 **Date: 13-05-2021**

To,
Dr./ Prof. /Sh./Smt. Rita Chhikara
(Coordinator Online ATAL FDP)
The NorthCap University
Sector 23A, Palam Vihar
State - HARYANA
Email - ncudatasciencecse@ncuindia.edu

Sub: Release of a sum of Rs. 93,000/- for AICTE Training and Learning (ATAL) Academy Online FDP

Sir/Madam,

This is to convey the sanction of the Council for payment of **Rs. 93,000/-** (**Rupees Ninety Three Thousand Only**)for conduct of online AICTE Training And Learning **(**ATAL**)** Academy Programme **"Research Trends in Computer Vision and Natural Language Processing"** to **The NorthCap University, HARYANA** under AICTE Training And Learning (ATAL) Academy.

This fund is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.

The instructions/guidelines to be followed by University/Institution: -

I. Release of funds and maintenance of accounts

a. The University/College/Institute shall maintain proper accounts of the expenditure out of the grants,which shall be utilized only on approved items of expenditure.

b. The cost for conducting per programme will be Rs. 93,000/- as per detail given as under:

S. No.	Particulars	Amount (In Rupees)
1.	Honorarium to Co-ordinator	10000
2.	Honorarium for computer operator	2000
3.	Honorarium for experts (Rs.5000 per session for total 14 session)	70000
4.	Provision for payment to Lab Attendant engaged during lab practices	1000
5.	Miscellaneous charges (petty expenses not covered above)	10000
	TOTAL	**93000**

Programmes having permission to change amounts under different heads with overall ceiling of Rs 0.93lakh being intact.

c. The grant is subject to the adjustment on the basis of Utilization Certificate in the prescribed proforma to be submitted by the University/College/Institution. Further, the accounts of the institute will be open for test check by the Council or Controller & Auditor General of India or any other officer designated by them

II. Disbursement of funds to institutions

The full amount of the grant sanctioned will be released as an advance to the University/Institute throughelectronic transfer on the account of the University/Institute after submission of mandate form.

I. Conduct of test and issuance of certificate

- A test shall be conducted by coordinator at the end of the program.
- The certificates shall be issued to those participants who have attended the program with minimum80% of attendance and scored minimum 60% marks in the test.

II. Submission of documents by university/institution

a. The following mandatory relevant documents are required to be submitted by the university/institution within one month of the completion of the program: -
   i. List of candidates who have successfully completed the program on the basis of the test conducted by Program Coordinator.
   ii. A program completion report along with photographs, videos, media report is to send after the completion of workshop along with the list of participants and Utilization Certificate, Expenditure Statement and feedback form etc. within one month of conduct of **AICTE Training and Learning (ATAL) Academy programme**.

b. The amount of the grant shall be adjusted on submission of utilization certificate & detailed expenditure statement by University/Institution. On receipt of these documents, the total amount of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid shall to adjust.

III. General Instructions

a. **Maximum 200 participants** may be allowed to attend online FDP**.** Coordinators are free to admit less number of participants depending on the feasibility**.**

b. A test has to be conducted **(**may be online**)** on the last day and those who score more than 60**%** will be termed as successful candidates**.** Those who have **attendance 80% or more** and also **score more than60% in the test** will be issued a **digital certificate.**

c. These **online sessions are to be recorded** as the facility is available on the software which is being used for online delivery of FDP**.** You are also requested to share recording of sessions with AICTE**.**

d. **Eligibility for Participants:**
   i. The faculty members of the AICTE approved institutions, research scholars, PG, Scholars, participants from Government, Industry (Bureaucrats/ Technicians/ Participants from Industry etc.) and staff of host institutions.
   ii. Not more than 30% from Host Institution

e. If programme is not conducted in the FY 2021-22 only, the released amount, has to be returned back to AICTE**.**

f. Any extra money required to complete the programme must be borne by the institute from their own resources but the quality of the activities should not be compromised**.**

g. FDP title name, name of coordinator, institute name is not allowed to change without permission however schedule dates may be changed with information ATAL Academy cell and Regional Office.

This Sanction Order may be treated as Offer Letter for all purposes**.**

Yours sincerely,

Director & Regional Officer

Copy forwarded for information and necessary action to -

1. Coordinator ATAL Programme
2. **ATAL Academy Cell AICTE HQ**
3. **Guard File**

A Report on

RESEARCH TRENDS IN COMPUTER VISION AND NATURAL LANGUAGE PROCESSING

Organized by Department of Computer Science and Engineering, The Northcap University, Gurugram, India, 122017

19TH JULY 2021-23TH JULY 2021

ATAL WORKSHOP ON RESEARCH TRENDS IN COMPUTER VISION AND NATURAL LANGUAGE PROCESSING

The 5-Days AICTE sponsored FDP was conducted from 19th to 23rd July 2021 in which 189 participants registered, out of which 139 participants from different parts of the country attended the FDP.

The speakers for the 5-day workshop on "RESEARCH TRENDS IN COMPUTER VISION AND NATURAL LANGUAGE PROCESSING" were as follows:

KEYNOTE SPEAKER:

Dr. Bimlesh Wadhwa, Senior Lecturer of Computer Science and Assistant Dean (Student Life) of the School of Computing at the National University of Singapore (NUS).

SPEAKERS:

Prof. B.Chandra

IIT Delhi,

India

Dr. Surbhi Bhatia

King Faisal University,

Saudi Arabia

Prof. R.K. Aggrawal

JNU,

New Delhi, India

Dr. Aditya Nigam

IIT Mandi,

India

Prof. Dinesh Kumar Vishwakarma

Delhi Technological University,

New Delhi, India

Mr. Abhinav Dube,

Scientist 'D', DRDO

New Delhi, India

Dr. Rita Chhikara

The Northcap University,

Gurugram, India

Ms. Poonam Chaudhary

The Northcap University,

Gurugram, India

Dr. Haider Raza

The University of Essex,

Colchester, UK

Prof. Shampa Chakraverty

NSUT,

New Delhi, India

The schedule of the workshop was as below:

Detailed Programme Schedule **Meeting Link:** ATAL FDP Meeting Link			
Day and Date	**Session1** **9:30 am -11:30 am**	**Session 2** **12:00am -2:00pm**	**Session 3** **3:00 pm -5:00 pm**
19.07.2021 **Monday**	Inaugural Session, Keynote Session	Linguistic Fundamentals of Natural Language Processing, Prof. B.Chandra, IIT Delhi, India	Opinion mining in information retrieval, Dr. Surbhi Bhatia, King Faisal University, Saudi Arabia
20.07.2021 **Tuesday**	Fundamentals of Deep Neural Networks by Prof. R.K. Aggrawal, JNU,New Delhi, India	Multimodal Biometric based Recognition System by Dr. Aditya Nigam, IIT Mandi, India	Hands-on session in Deep Neural Networks by Prof. R.K. Aggrawal, JNU,New Delhi, India
21.07.2021 **Wednesday**	Human Pose and Emotion Analysis using Deep Learning and Its Applications by Dr. Dinesh Kumar Vishwakarma, Professor of Information Technology, Delhi Technological University, Delhi, India	Hands on Emotion Analysis using Deep Learning by Dr. Dinesh Kumar Vishwakarma, Professor of Information Technology, Delhi Technological University, Delhi, India	Biometric System Security, Dr. Abhinav Dube Scientist, DRDO, New Delhi, India
22.07.2021 **Thursday**	Machine Learning in Image Steganalysis by Dr. Rita Chhikara, The Northcap University, Gurugram, India	Introduction to Brain Computer Interface and Machine Learning, Ms. Poonam Chaudhary, The Northcap University, Gurugram, India	Brain Computer Interface for Communication in Completely Locked in State Patients by Dr. Haider Raza, The University of Essex, Colchester, UK
23.07.2021 **Friday**	Rough Set Theory-A Paradigm for approximate computing by Prof. Shampa Chakraverty, NSUT,New Delhi, India	Hand-on session on Natural Language Processing by Prof. Shampa Chakraverty, NSUT,New Delhi, India	Online evaluation and Valedictory Session

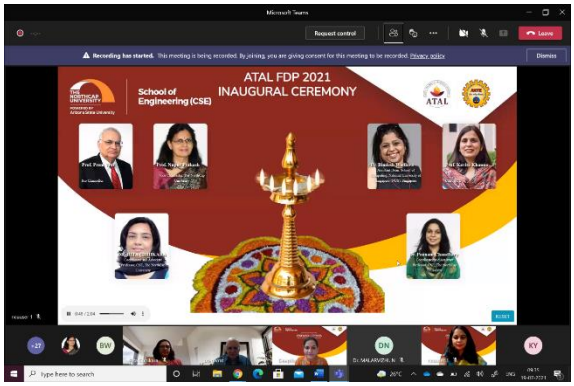
Daywise Report:

DAY 1 (19.07.2021)

❖ SESSION 1 (9:30 AM-11:30 AM)

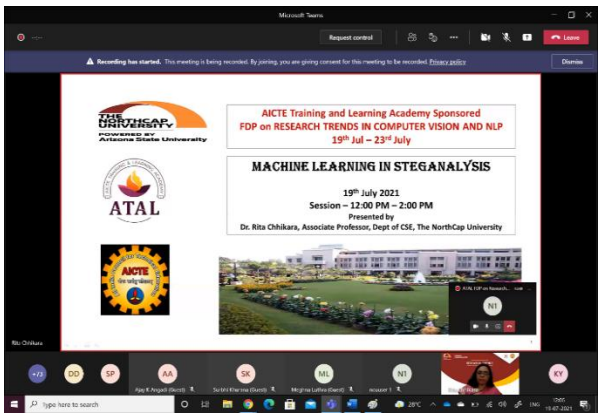
The inauguration was held on 19th July 2021 online on the platform MS Teams at 9:30 AM. The session began by an introductory address by HR and welcoming guests. This was followed by an address by Pro Chancellor, Dr. Prem Vrat and Vice Chancellor, Prof. Nupur Prakash. The Head of CSE&IT Dept. Dr. Kavita Khanna then briefed all the participants about the NorthCap University. The Chief Guest, Dr. Bimlesh Wadhwa, Assistant Dean, School of Computing, National University of Singapore delivered the Keynote session. Dr. Rita Chhikara, the Coordinator gave an introduction about the FDP and in the end proposed the Vote of Thanks.

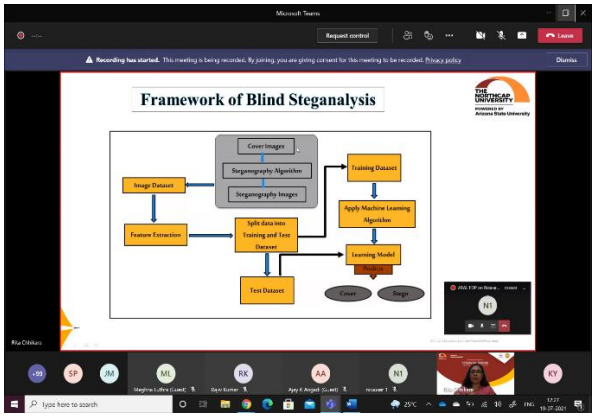
Some screenshots of the inaugural function are as below.



❖ SESSION 2 (12:00PM-2:00PM)

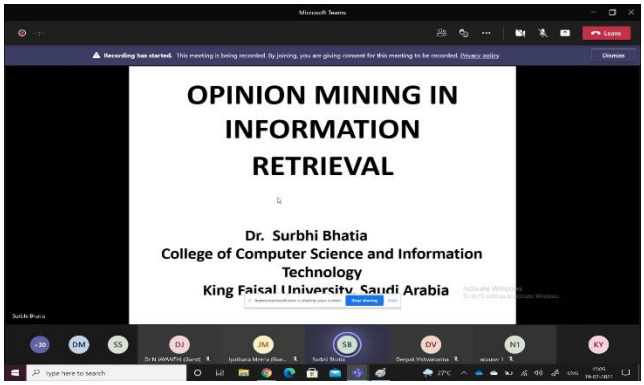
The speaker for the 2nd session on Day 1 was Dr. Rita Chhikara of The Northcap University, Gurugram, India. The topic for the session was “Machine Learning in Image Steganalysis”. Dr. Chhikara enlightened the participants about topics such as Steganography, Steganalysis, Machine Learning, Performance Measures, Feature Selection & Advanced Framework for Steganalysis, Hybrid Feature Selection. There was also Hands on experience for the participants on the Steganography Tool “OpenStego”. Dr. Chhikara also shared and explained the python code for Steganalysis using the Spider IDE.





❖ SESSION 3 (3:00PM-5:00PM)

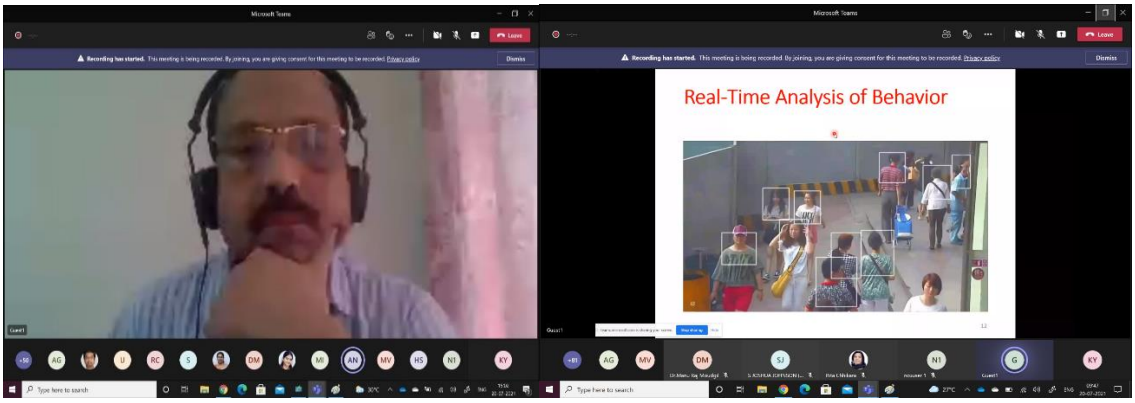
In the 3rd session on Day 1, Dr. Surbhi Bhatia of King Faisal University, Saudi Arabia delivered a talk on "Opinion mining in information retrieval". Dr. Bhatia started the session by giving an introduction about opinions, opinion mining along with research gaps and limitations of existing system. She outlined the general steps in opinion mining and the task related to it. The speaker, Dr. Bhatia, discussed in depth about Opinion Score Mining System (OSMS). She explained about the dataset used in the research, the performance metrics used along with the results, she also made comparisons between different research done. Going further to the next topic, she introduced the participants to Aspect based Opinion Mining and Opinion Classification. The speaker touched upon various Deep Learning topics and showed the participants the proposed CovNet structure. In the next section of the session, Dr. Bhatia focussed on various Text Summarization Approaches. She wrapped up the session by discussing the future scope of the research and taking up questions/queries raised by the participants.



DAY 2 (20.07.2021)

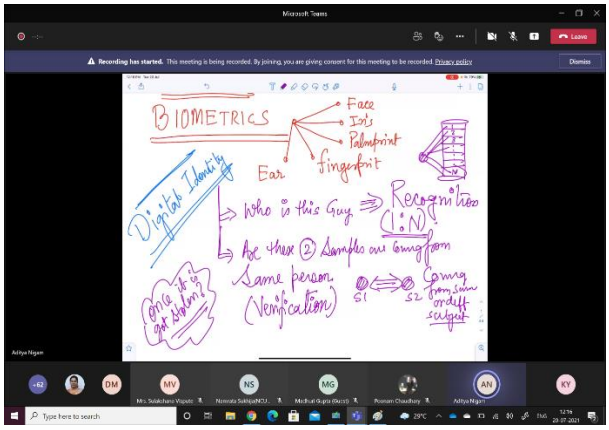
- **SESSION 1 (9:30 AM-11:30 AM)**

In the first session of the second day of the programme, Prof. R.K. Aggrawal of JNU, New Delhi spoke about "Fundamentals of Deep Neural Networks". Dr. Aggrawal started the session by discussing about the goals of machine learning. He talked about various applications of Machine Learning like Face Recognition, Fingerprint Recognition, OCR, Self-Driving Cars, Healthcare Sector among others. He went on to discuss about Supervised Learning which included topics like Neural Networks, Single Perceptron, Multilayer Perceptron. In the next part of the session, he talked about introduction to Deep Learning and Deep Learning Algorithms like CNN. This was followed by Dr. Aggrawal taking up and answering questions asked by the participants. The session ended with Dr. Rita Chhikara giving the Vote of Thanks.



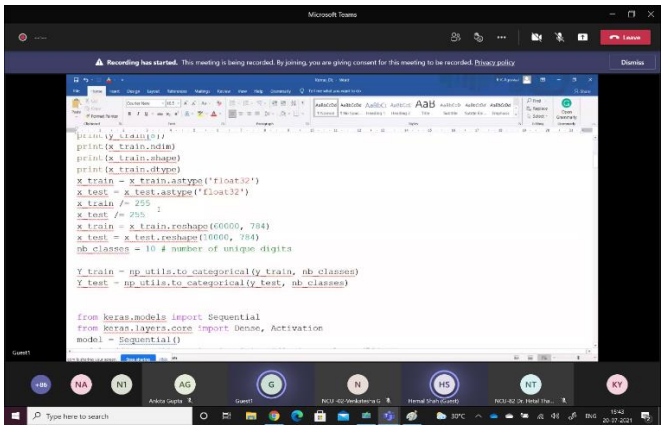
- **<u>SESSION 2 (12:00 PM-2:00 PM)</u>**

In the second session of the second day of the workshop, Dr. Aditya Nigam of IIT Mandi, India delivered a talk on "Multimodal Biometric based Recognition System". Dr. Nigam began with the basics of Biometrics and went on to enlighten the participants about Enrolment, Authentication, Identification process along with various available Biometric Traits, their properties and challenges related to each trait. He explained various stages in any Biometric System. In the next part of the talk, he introduced the participants to the Deep Learning in which he covered the Siamese CNN. In the end Dr. Nigam answered the queries of the participants.



SESSION 3 (3:00 PM-5:00 PM)

The speaker for the third session of the second day of the programme was Prof. R.K. Aggrawal of JNU, New Delhi. The topic for the session was "Hands-on session in Deep Neural Networks". Dr. Aggrawal explained the python code for various Deep Learning Architectures. He simultaneously took up the doubts of the participants.

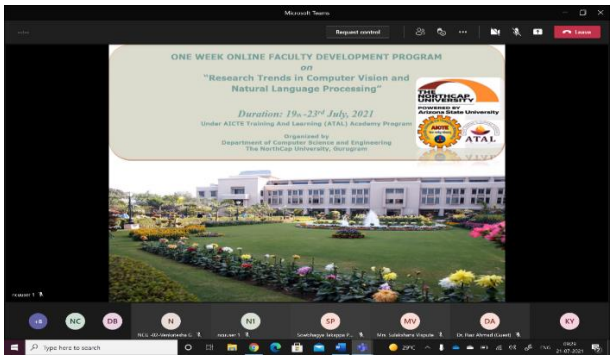


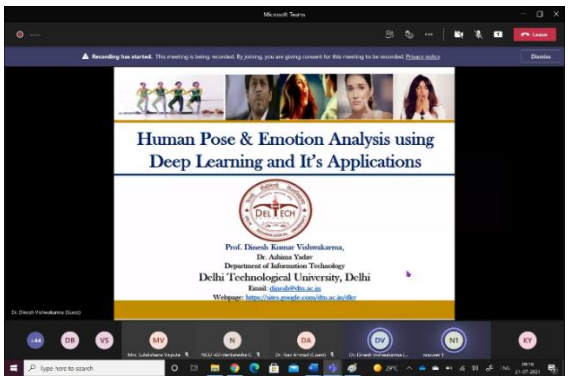
DAY 3 (21.07.2021)

❖ SESSION 1 (9:30 AM-11:30 AM)

The first session of Day 3 was addressed by Dr. Dinesh Kumar Vishwakarma, Professor of Information Technology, Delhi Technological University, Delhi. The topic for this session was "Human Pose and Emotion Analysis using Deep Learning and Its Applications". Dr. Vishwakarma began the session with an introduction about the Human Poses and challenges related to Human Pose Estimation/Analysis. He explained the three most used Human Body Models: Skeleton based, Contour based, Volume based models. He went on to discuss about Pose Estimation and Human Activity Recognition. During the FDP, the speaker also talked about Convolutional Neural Network. In the last section, Dr. Vishwakarma discussed and compared the experimental results for three datasets: UT Kinect Action 3D, Florence 3D Action. MSR Action Dataset. The session

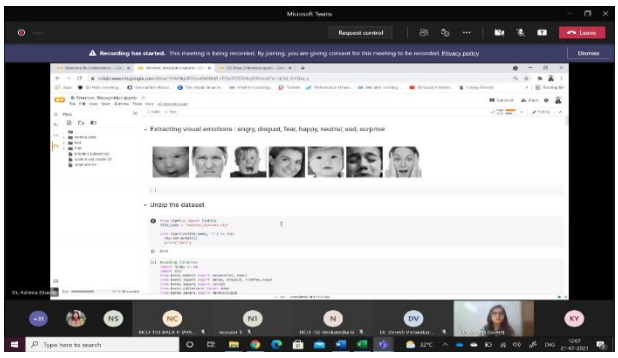
was wrapped up by taking up questions raised by participants and vote of thanks by Dr. Rita Chhikara.

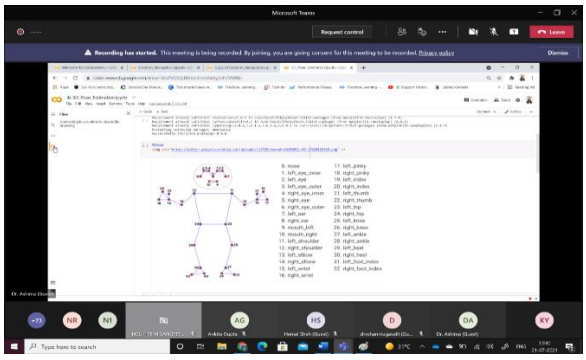




❖ SESSION 2 (12:00 PM-2:00 PM)

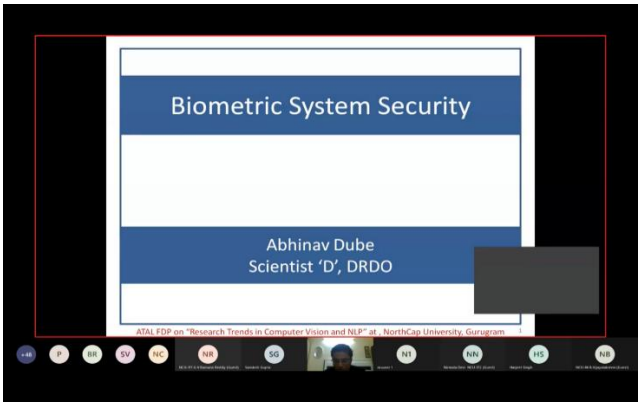
The speakers for second session on Day 3 were Dr. Dinesh Kumar Vishwakarma, Professor of Information Technology, Delhi Technological University, Delhi and his Research Scholar, Ms. Ashima Yadav. This was a Hands-on session on "Emotion Analysis using Deep Learning". The speakers helped the participants understand the Python Code for various CNN Architectures. They gave the participants ample time in between various parts to implement the code on their own machines, all the queries and problems faced by the participants were solved on the spot.





SESSION 3 (3:00 PM-5:00 PM)

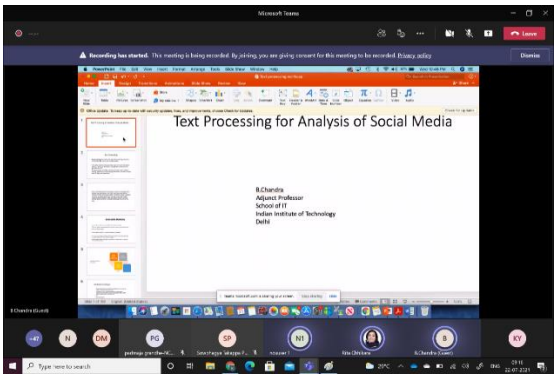
Mr. Abhinav Dube, Scientist, DRDO, New Delhi was the speaker for the third session of Day 3. The theme for his session was "Biometric System Security". He started the session with an introduction to Biometric Systems which covered topics such as Unimodal Biometric Recognition System, Applications of Biometric System, Frequently used Biometric Traits, Criteria for Selection, Issues and Challenges related to various traits. In the last section he discussed about Security Analysis of Biometric System. Mr. Dube wrapped up the session by addressing the queries of the participants.

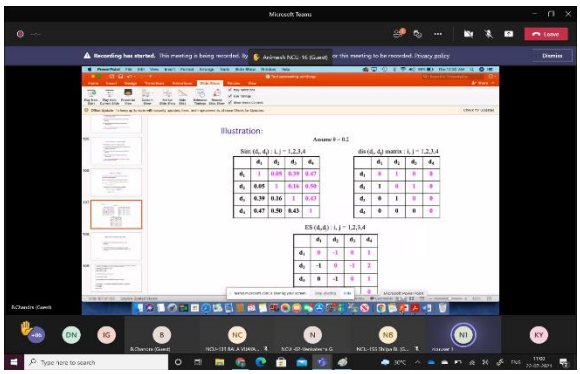


DAY 4 (22.07.2021)

❖ SESSION 1 (9:00 AM-11:00 AM)

In the first session of the Day 4 of the programme, Prof. B.Chandra of IIT Delhi, India, spoke on the topic "Linguistic Fundamentals of Natural Language Processing". Speaking from USA, Dr. Chandra discussed in depth about Text Processing for Analysis of Social Media. With the help of case studies she elucidated the four applications of Text Processing: Social Media Monitoring, Brand Monitoring, Customer Service and Intent Detection. Jumping from theoretical part to the quantitative part, she explained the participants how to convert Categorical Data to Numeric Data using One Hot Encoding Scheme along with methods for converting terms in Document along with ample number of examples. Prof. Chandra also discussed about Word2Vec Model, CBOW Architecture, Skip Gram Model, Multi-Layer Feed Forward Network, Recurrent Neural Network. In the end she explained Cosine Similarity with the help of an example. She concluded the session by clarifying the queries raised by the participants.

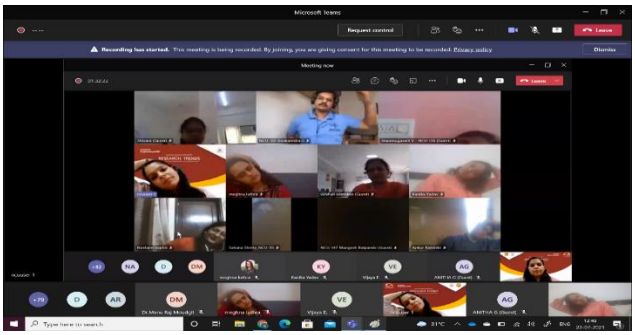




❖ SESSION 2 (12:00 PM-2:00 PM)

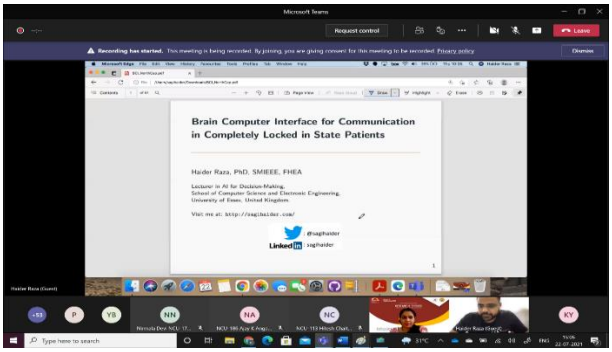
The speaker for the second session of Day 4 was Ms. Poonam Chaudhary of The NorthCap University, Gurugram. She delivered an interactive and engaging talk on "Introduction to Brain Computer Interface and Machine Learning". She began

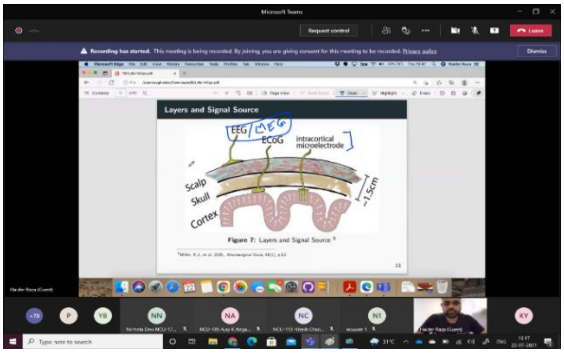
with an introduction to Brain Anatomy along with brief understanding about BCI. She covered topics such as BCI Interface Paradigms, Brain Activity Acquisition Techniques, Brain Rhythms. Ms. Chaudhary described the Medical and Non Medical BCI Applications with the help of interactive videos. To avoid monotony and to make the session interesting, Ms. Chaudhary, showed the participants a motivational video and also did a few neck exercises with the participants during the 4-5 minutes break time. In the next part of the session she explained in detail how BCI works with Machine Learning Framework followed by discussion about different challenges related to the field of BCI. She wrapped up the session by taking up and clearing the doubts of the participants. Dr. Chaudhary also gave an introduction about the NorthCap University.



SESSION 3 (3:00 PM-5:00 PM)

Dr. Haider Raza of The University of Essex, Colchester, UK was the speaker for the third session of Day 4. The theme for his session was “Brain Computer Interface for Communication in Completely Locked in State Patients”. The outline of his talk was Introduction to Brain-Computer Interface, Non-Stationary Learning, Covariate Shift Detection, Covariate Shift Adaption, CSA in Neuro-Rehabilitation, Deep Learning for CSA. In the end Dr. Raza talked about the first MEG Open Dataset and shared the Git Hub link for the same. In the end Dr. Raza informed the participants that he is open for collaboration in this field and completed the session by replying to the questions of the participants.

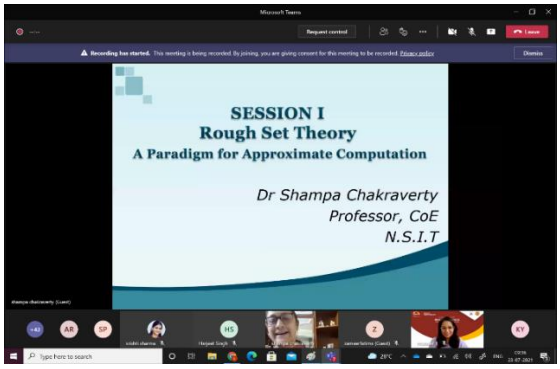




DAY 5 (23.07.2021)

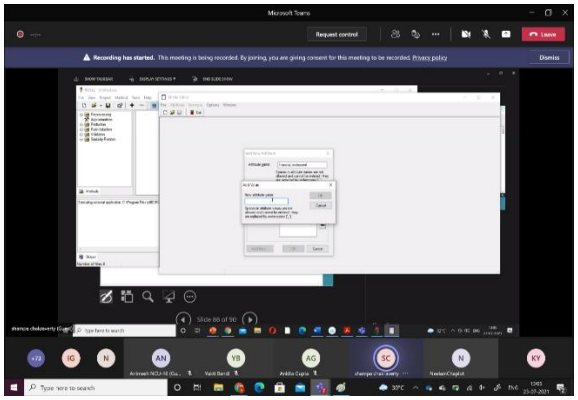
❖ SESSION 1 (9:30 AM-11:30 AM)

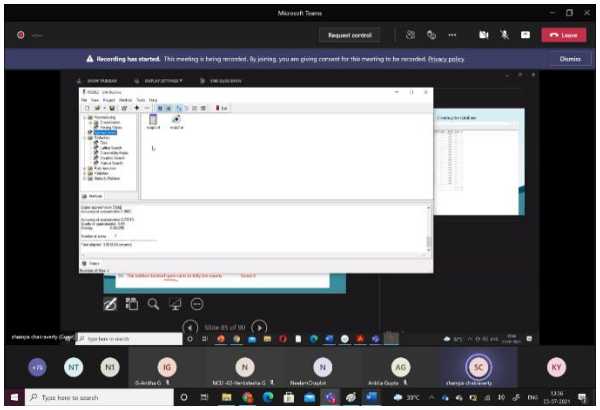
In the first session of Day 5, Prof. Shampa Chakraverty of NSUT, New Delhi delivered a talk on "Rough Set Theory-A Paradigm for approximate computing". She began the session with Part one and two of the talk which consisted of motivation for approximation followed by the basic concepts of RST. She described the four notions: Indiscernibility Relation, Equivalence Classes, Reducts and Set Approximations. In Part 3, Prof. Chakraverty explained the participants about rules strength, coverage and certainty. In Part 4, she discussed about Further Approximations such as Rough Membership, Tolerance Sets, Fuzzy similarity, NORMS. In Part 5, she talked about Reduct Optimisation. In the end she discussed about some applications like Metaphor Detection. Prof. Chakraverty wrapped up the session by answering the questions raised by participants.



SESSION 2 (12:00 PM-2:00 PM)

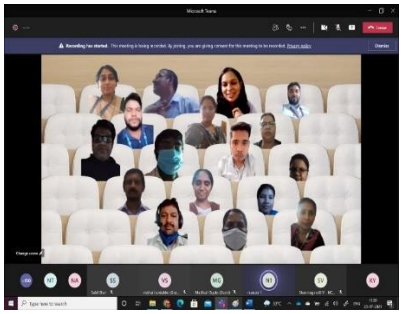
On the last day of the FDP, in the second session, Prof. Shampa Chakraverty of NSUT, New Delhi took a "Hand-on session on Natural Language Processing". She covered an exercise based on Deriving Reducts, she gave participants ample time to complete the example and afterwards discussed the solution. In the second exercise, Prof. Chakraverty, demonstrated the implementation of Word Sense Disambiguation on ROSE2 software. She simultaneously clarified all the problems and doubts faced by the participants.

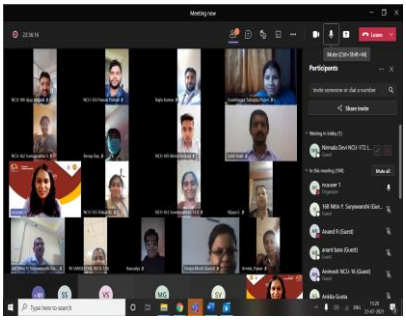




SESSION 3 (3:00 PM-5:00 PM)

The last day concluded with the Valedictory session. The session was started by Ms. Poonam Chaudhary followed by a message from Dr. Rita Chhikara. The participants were then invited to give their feedbacks. In the end the participants were requested to appear for their evaluation.





List of Participants:

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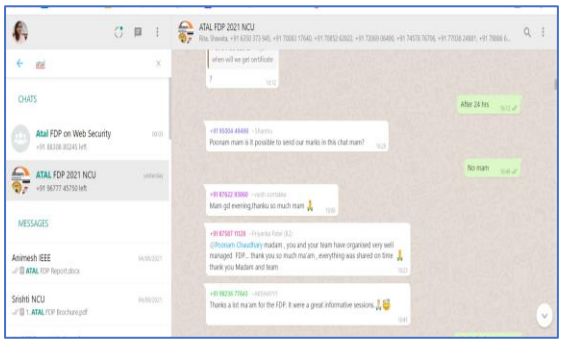
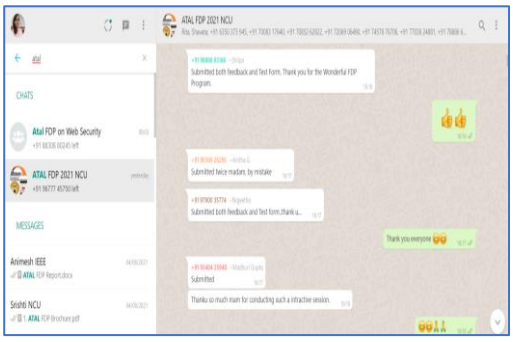
Some of the feedback received for the workshop are as below





It was a great Initiative by ATAL Academy. I am thankful to AICTE for giving me this opportunity to conduct online FDP for faculty members of technical institute of India free of cost. I got huge response for registration as well as lots of compliment of arranging the online workshop, content and hands on.

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

(A Statutory body under Ministry of HRD, Govt. of India)
Nelson Mandela Marg, Vasant Kunj, New Delhi-110070
Website: www.aicte-india.org

AICTE TRAINING AND LEARNING (ATAL) ACADEMY, (ONLINE FDP)

F. No. 01/AICTE/ATAL-HQ/2021-22/1614941898 **Date: 13-05-2021**

To,
Dr./ Prof. /Sh./Smt. SHILPA MAHAJAN
(Coordinator Online ATAL FDP)
The NorthCap University
Sec 23 A Palam Vihar Gurgaon Haryana- 122017
State - HARYANA
Email - shilpa.kaushal@gmail.com

Sub: Release of a sum of Rs. 93,000/- for AICTE Training and Learning (ATAL) Academy Online FDP

Sir/Madam,

This is to convey the sanction of the Council for payment of **Rs. 93,000/-** (**Rupees Ninety Three Thousand Only**) for conduct of online AICTE Training And Learning **(**ATAL**)** Academy Programme **"How to Exploit (Secure) Web Applications"** to **The NorthCap University, HARYANA** under AICTE Training And Learning (ATAL) Academy.

This fund is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.

The instructions/guidelines to be followed by University/Institution: -

I. Release of funds and maintenance of accounts

a. The University/College/Institute shall maintain proper accounts of the expenditure out of the grants,which shall be utilized only on approved items of expenditure.

b. The cost for conducting per programme will be Rs. 93,000/- as per detail given as under:

S. No.	Particulars	Amount (In Rupees)
1.	Honorarium to Co-ordinator	10000
2.	Honorarium for computer operator	2000
3.	Honorarium for experts (Rs.5000 per session for total 14 session)	70000
4.	Provision for payment to Lab Attendant engaged during lab practices	1000
5.	Miscellaneous charges (petty expenses not covered above)	10000
	TOTAL	**93000**

Programmes having permission to change amounts under different heads with overall ceiling of Rs 0.93lakh being intact.

c. The grant is subject to the adjustment on the basis of Utilization Certificate in the prescribed proforma to be submitted by the University/College/Institution. Further, the accounts of the institute will be open for test check by the Council or Controller & Auditor General of India or any other officer designated by them

II. Disbursement of funds to institutions

The full amount of the grant sanctioned will be released as an advance to the University/Institute throughelectronic transfer on the account of the University/Institute after submission of mandate form.

I. Conduct of test and issuance of certificate

- A test shall be conducted by coordinator at the end of the program.
- The certificates shall be issued to those participants who have attended the program with minimum80% of attendance and scored minimum 60% marks in the test.

II. Submission of documents by university/institution

a. The following mandatory relevant documents are required to be submitted by the university/institution within one month of the completion of the program: -
   i. List of candidates who have successfully completed the program on the basis of the test conducted by Program Coordinator.
   ii. A program completion report along with photographs, videos, media report is to send after the completion of workshop along with the list of participants and Utilization Certificate, Expenditure Statement and feedback form etc. within one month of conduct of **AICTE Training and Learning (ATAL) Academy programme**.

b. The amount of the grant shall be adjusted on submission of utilization certificate & detailed expenditure statement by University/Institution. On receipt of these documents, the total amount of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid shall to adjust.

III. General Instructions

a. **Maximum 200 participants** may be allowed to attend online FDP**.** Coordinators are free to admit less number of participants depending on the feasibility**.**

b. A test has to be conducted **(**may be online**)** on the last day and those who score more than 60**%** will be termed as successful candidates**.** Those who have **attendance 80% or more** and also **score more than60% in the test** will be issued a **digital certificate.**

c. These **online sessions are to be recorded** as the facility is available on the software which is being used for online delivery of FDP**.** You are also requested to share recording of sessions with AICTE**.**

d. **Eligibility for Participants:**
   i. The faculty members of the AICTE approved institutions, research scholars, PG, Scholars, participants from Government, Industry (Bureaucrats/ Technicians/ Participants from Industry etc.) and staff of host institutions.
   ii. Not more than 30% from Host Institution

e. If programme is not conducted in the FY 2021-22 only, the released amount, has to be returned back to AICTE**.**

f. Any extra money required to complete the programme must be borne by the institute from their own resources but the quality of the activities should not be compromised**.**

g. FDP title name, name of coordinator, institute name is not allowed to change without permission however schedule dates may be changed with information ATAL Academy cell and Regional Office.

This Sanction Order may be treated as Offer Letter for all purposes**.**

Yours sincerely,

Director & Regional Officer

Copy forwarded for information and necessary action to -

1. Coordinator ATAL Programme
2. **ATAL Academy Cell AICTE HQ**
3. **Guard File**

Fitness Development Program - FDP

At The NorthCap University, we believe in working hard and playing harder. The month of September was dedicated to health and fitness. We initiated the “Fitness Development Program - FDP” with sports and fun activities. Who could believe our faculty and staff would be so eager to run, hop, skip, and jump? We witnessed excellent zeal, team bonding, recreation, and engagement when we gathered in playgrounds for Yoga, Aerobics, Meditation, and Zumba. It goes without saying; this would not have been possible without the excellent time management, multi-tasking, and work-life balance skills of our employees.

Fitness Mania – Celebrating Teachers Day

On September 4th, 2021, RUN-A-THONIA, in collaboration with Effective Altruism, held a Fitness Mania event to encourage health and fitness in honor of Teacher's Day. This event was meant to spark the quest for fitness and to entertain. During the event, the Honourable Chancellor, Vice-Chancellor, and all teaching and non-teaching staff of NCU were present. The events included warmup sessions, Games like ladder circuit, Zumba session, and fitness-inspired choreography. Everyone admired the event for being a fantastic stress reliever.