

Report for Online Faculty Development Programme on Trending Technologies

17.05.2020

Conducted during 14th – 16th May 2020

Organized by Department of Computer Applications (SCIMS), BSACIST

In association with

Computer Society of India (CSI)

Faculty Coordinators

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Conveners

Dr. Gufran Ahmad Ansari, Prof. & Head, CA

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PREAMBLE

A Three-day Online Faculty Development Programme on “Trending Technologies” (through GoToMeeting), was conducted during 14th – 16th May 2020, scheduled from 10.30 am – 3.30 pm. It was organized by the Department of Computer Applications, School of Computer, Information and Mathematical Sciences, in association with Computer Society of India (CSI).

Dr. T. Ruso, Associate Consultant, Wipro Ltd., handled the Day 1 Session on **Spring Boot**. Day 1 Afternoon Hands-on Session on Spring Boot was handled by Dr. T. Ruso and Dr. A.K. Reshmy, AP/CA, BSACIST.

Dr. D. Senthilkumar, AP, Department of CSE, University College of Engineering, Anna University, Tiruchirapalli, handled the sessions on Day 2 & Day 3, on Machine Learning Using R and Deep Learning using R respectively..

The report discusses about the following aspects of the programme:

1. [Course Content and Online Delivery Mode of the Online Trending Technologies FDP.](#)
2. [Online Participants Registration Process for the Online Trending Technologies FDP.](#)
3. [Course Assessment Process and Certification for the Online Trending Technologies FDP.](#)
4. [Analysis of Feedback from participants for the Online Trending Technologies FDP.](#)
5. [Sample Screenshots taken during Online Trending Technologies FDP.](#)

1. Course Content and Online Delivery Mode of the Online Trending Technologies FDP.

Day 1:

Spring Boot is an open source Java-based framework used to create a micro Service. It is developed by Pivotal Team and is used to build stand-alone and production ready **spring** applications.

The course content delivered during the morning session is as follows:

1. Spring Boot Starter Project
2. POM file
3. Application.properties file
4. POJO file
5. Repository file
6. Service file
7. Controller file

Hands-on training was carried out in the afternoon session on Spring Boot using MongoDB.

Laboratory Assignment

1. Design UI for register employee details
2. Write a Spring boot service for displaying employees whose age is more than 50 years old.
3. Write a Spring boot service for displaying employee whose name is Ravi.
4. Write a Spring boot service for update employees whose first name is Ram.

Day 2:

Machine learning is a method of data analysis that automates analytical model building. It is a branch of artificial **intelligence** based on the idea that systems can learn from data, identify patterns and make decisions with minimal human intervention.

R is a **programming** language and free software environment for statistical computing and graphics supported by the **R** Foundation for Statistical Computing. The **R** language is widely used among statisticians and data miners for developing statistical software and data analysis.

The course content delivered during the day 2 sessions is as follows:

1. Introduction to Machine Learning
2. Knowledge Discovery in Database (KDD Steps)
3. Data Preprocessing
4. Basics of Classification and Prediction.
5. Model Construction and Validation.
6. Performance Evaluation Measures.

Hands-on training was carried out in the afternoon session on Machine Learning using R.

Laboratory Session

- Download and install R and get the most useful package for machine learning in R.
- Load a dataset and understand it's structure using statistical summaries and data visualization
- Create 5 machine learning models, pick the best and build confidence that the accuracy is reliable.

Day 3:

Deep learning is a subset of **machine learning** in artificial intelligence (AI) that has networks capable of **learning** unsupervised from data that is unstructured or unlabeled. It is also known as **deep neural learning** or **deep neural network**.

The course content delivered during the day 3 sessions is as follows:

1. Basics of Artificial Neural Network
2. Neural Network Tuning Parameters
3. Basics of Deep Learning
4. Introduction to H2o Package
5. Deep Learning using R with H2o Package

Hands-on training was carried out in the afternoon session on Deep Learning using R followed by Online test (MCQs) on R was conducted to the participants through Google forms.

Laboratory Assignment

1. Download Pima Indian Data set from the website
2. Load the Pima Indian data set into the workspace
3. Perform five classification algorithm and deep learning
4. Evaluate the performance of classification algorithms
5. Compare the performance of six algorithms

The participants were provided with the course content along with assignments, code files and slides, which were shared in both in online and offline. The recording of the sessions was uploaded in YouTube and the link has been shared to all the participants in their respective emailids.

Online Mode:

- 14th FN Session - <https://youtu.be/3NrLcX9Ag54>
- 14th AN Session – <https://youtu.be/r3Kbmx9em1I>
- 15th FN Session - <https://youtu.be/ZTioStVUgHA>
- 15th AN Session - <https://youtu.be/FXxpvD5MB4E>
- 16th FN Session – <https://youtu.be/AWHdOw4sKmU>
- 16th AN Session – <https://youtu.be/EUdHz9-H1vY>

Offline Mode:

- <https://drive.google.com/file/d/1YQGFhc5k1Zwbb0PEE12zwCv0D2WYHong/view?usp=sharing>
- https://drive.google.com/file/d/173_2JfiaD0XOkYKiOkJgtomaetBLSysL/view?usp=sharing
- <https://drive.google.com/file/d/1lhcnLpPr-20MieFcZCka9Bp05WRr5gd3/view?usp=sharing>
- <https://drive.google.com/file/d/196VAqdg56VWffmLGqQBNK7iJO8PV5JDt/view?usp=sharing>

2. Online Participants Registration Process for the Online Trending Technologies FDP.

The Brochure highlighting the necessary information about the FDP on Trending Technologies was designed and circulated. The Brochure is displayed below:

B. S. Abdur Rahman Crescent Institute of Science and Technology Vandalur, Chennai, Tamilnadu - 600 048.
 Accredited with 'A' grade by NAAC

SCHOOL OF COMPUTER, INFORMATION AND MATHEMATICAL SCIENCES
DEPARTMENT OF COMPUTER APPLICATIONS
 in association with
COMPUTER SOCIETY OF INDIA
 Organizes
ONLINE FACULTY DEVELOPMENT PROGRAMME
 On
TRENDING TECHNOLOGIES
14th MAY 2020 - 16th MAY 2020
10:30 AM - 3:30 PM

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 MS. S. SABARIA, ASST. PROF, CA

CONVENERS
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SPEAKERS

Dr. T. Ruso
 Associate Consultant
 Wipro Ltd.

Dr. D. Senthilkumar
 Assistant Professor
 Dept of CSE,
 University College of Engineering,
 Anna University,
 Tiruchirapalli

DAY 1 Spring Boot
DAY 2 Introduction to Machine Learning and R
DAY 3 Deep Learning using R

Registration Link
<https://forms.gle/aCjs3gx99Xf9Gayc8>

Registration Last date
 13th May 2020

Limited seats

E-Certificate will be provided to those participants who will score more than or equal to 60% score in exit test.

www.crescent.education

There was no **Registration Fee** for the participants attending this Online FDP on Trending Technologies. Interested participants were requested to register their details in a google form which was shared through the link <https://forms.gle/eUhwilU5aM8gZ3bz8>.

A total of 176 faculty members registered as participants. 100 participants confirmed their registration to attend this online FDP.

Summary of Participants	Total No. of Institutions	34 Institutions
	Participants from other states in India	59 Participants
	Participants within TamilNadu	32 Participants
	BSACIST	9 Participants

The details of confirmed participants are given in [Annexure A](#).

3. Course Assessment Process and Certification for the Online Trending Technologies FDP.

The online examination was conducted on 16th May 2020 from 3.00 pm to 3.45 pm. It was 45 minutes online exam of Multiple Choice Questions (MCQ) pattern. The online test was carried out through google form. <https://forms.gle/sya8AGSdDSWej4hk9>

The certificate was made available to the participants only on scoring 40% or above in the online test, with minimum attendance of 70%. Details of examination are stated below:

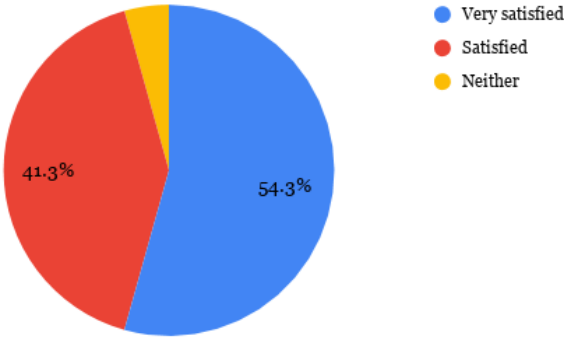
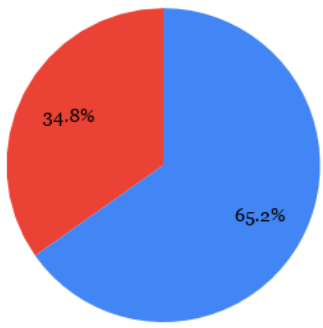
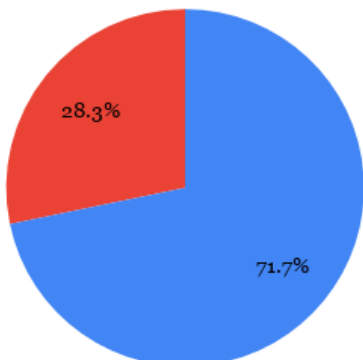
No. of Confirmed Participants	100 Participants
No. of Certified Participants	75 Participants

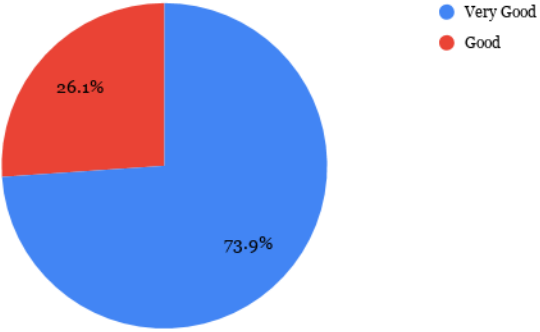
In total, 75% of participants successfully completed the online FDP on Trending Technologies.

The sample certificate issued to the participants after the successful completion of online test is given in [Annexure B](#).

4. Analysis of Feedback from participants for the Online Trending Technologies FDP.

The feedback about the FDP was collected from the participants in order to improve the further conduct of these types of events.

Feedback Points	Analysis	Inference
How satisfied were you with the FDP?	<p style="text-align: center;">How satisfied were you with the FDP?</p>  <p>Legend: ● Very satisfied ● Satisfied ● Neither</p>	<p>54.3% of the participants were fully satisfied and 41.3% felt it was very good. Almost 96% of the participants are satisfied with the FDP.</p>
How relevant and helpful do you think it was for you?	<p style="text-align: center;">How relevant and helpful do you think it was for</p>  <p>Legend: ● Extremely ● Very</p>	<p>The session was extremely relevant and helpful to 65.2% of the participants, and 34.8% of the participants felt it was very much helpful. Overall 100% participants gained knowledge through this FDP.</p>
How satisfied were you with the session content?	<p style="text-align: center;">How satisfied were you with the session content?</p>  <p>Legend: ● Excellent ● Above Average</p>	<p>71.7% of the participants felt the session was excellent and 28.3% felt good. Almost 100% of the participants were very much satisfied with the FDP.</p>

<p>How did you rate the overall assessment of the FDP?</p>	<p style="text-align: center;">How did you rate the overall assessment of the FDP</p>  <p style="text-align: right;"> ● Very Good ● Good </p>	<p>73.9% participants felt it was very good. 100% of the participants felt overall FDP is very satisfactory.</p>
<p>Any additional comments regarding the sessions or overall agenda?</p>	<ul style="list-style-type: none"> • It was a wonderful fdp. Focused with hands on. • Hands on session, Efforts of Resource Person and Coordination of Organizing Committee are excellent. • Very Good for the beginner, taught in simple way. • Time Management is very good. • Many online events to be done. • It was very helpful and practical with lab session that was helpful for my research work. • All sessions are Good and way of presentation mind-blowing. • No need to improvement everything is great. • It was really helpful and knowledgeable. • It was awesome. 	

The overall organization and deliverance was satisfying to 82% of participants. Also the session which was deliberated and given to the participants would be used for teaching hands on to the students as well as can be applied for the research work.

5. Sample Screenshots taken during Online Trending Technologies FDP.

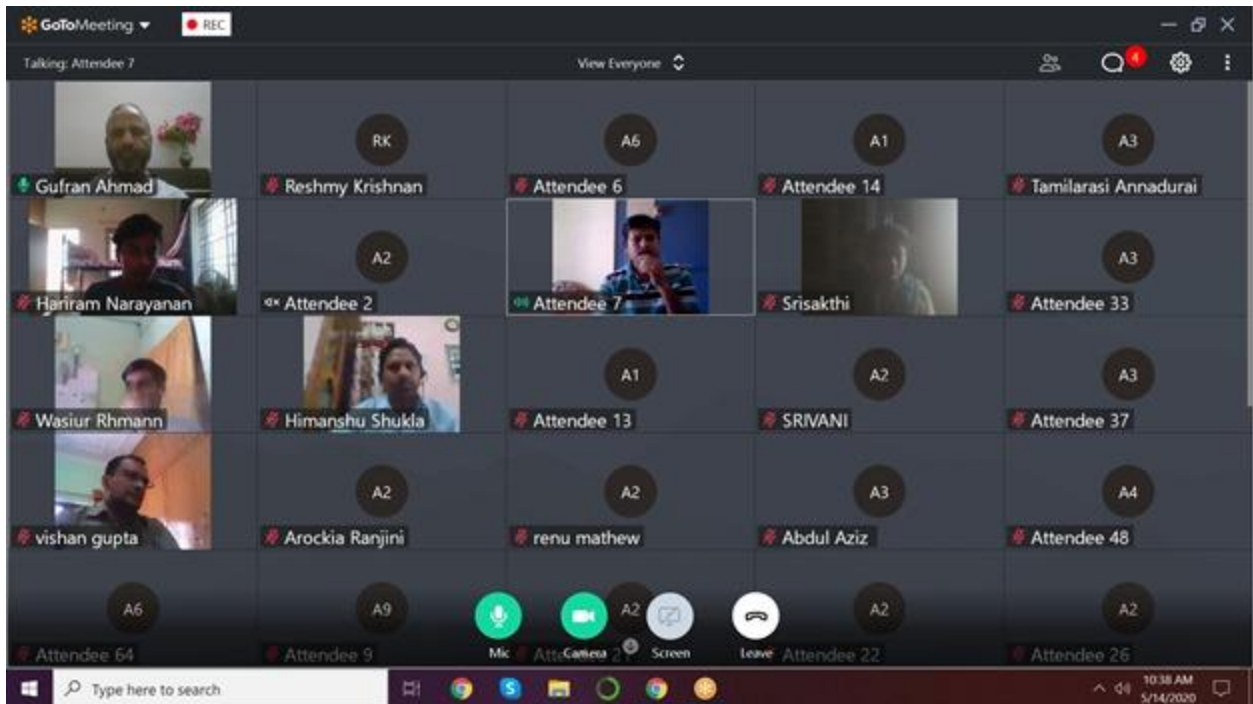


Fig. 1: Inaugural & Welcome address by Dr. Gufran Ahmad Ansari, HoD/CA – Day 1

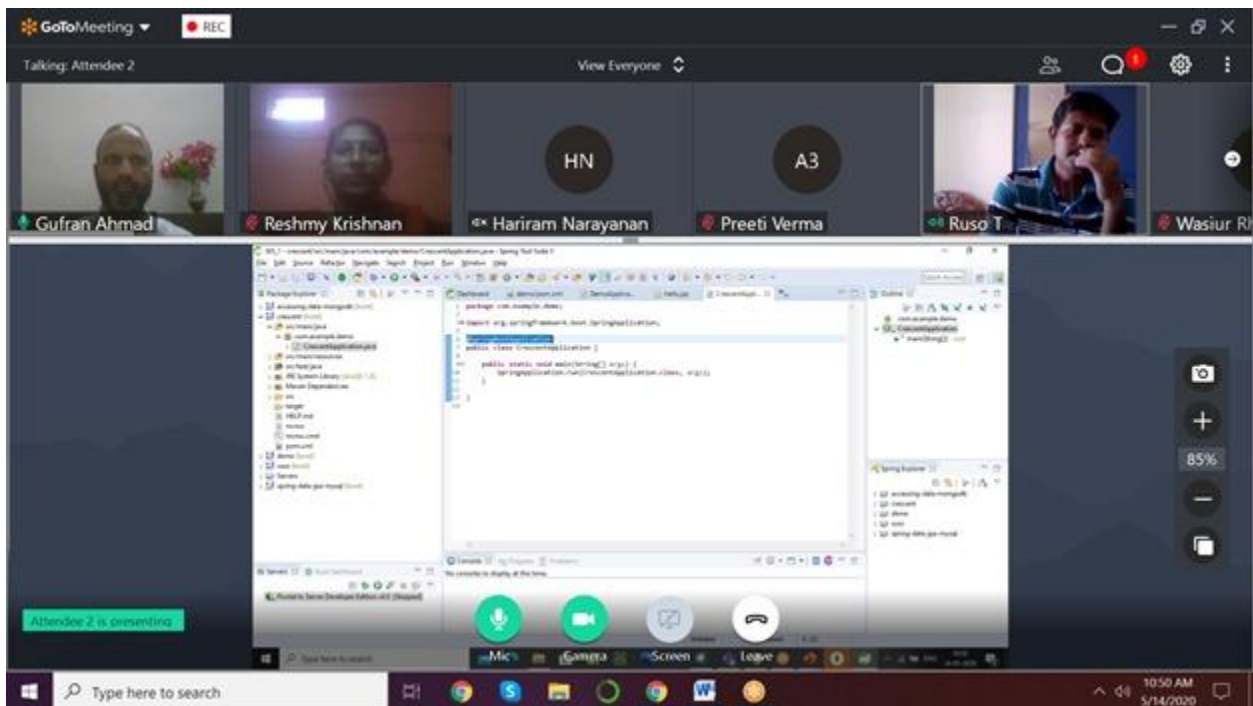


Fig. 2: Session on Spring Boot by Dr. T. Ruso, Associate Consultant, Wipro Ltd. – Day 1

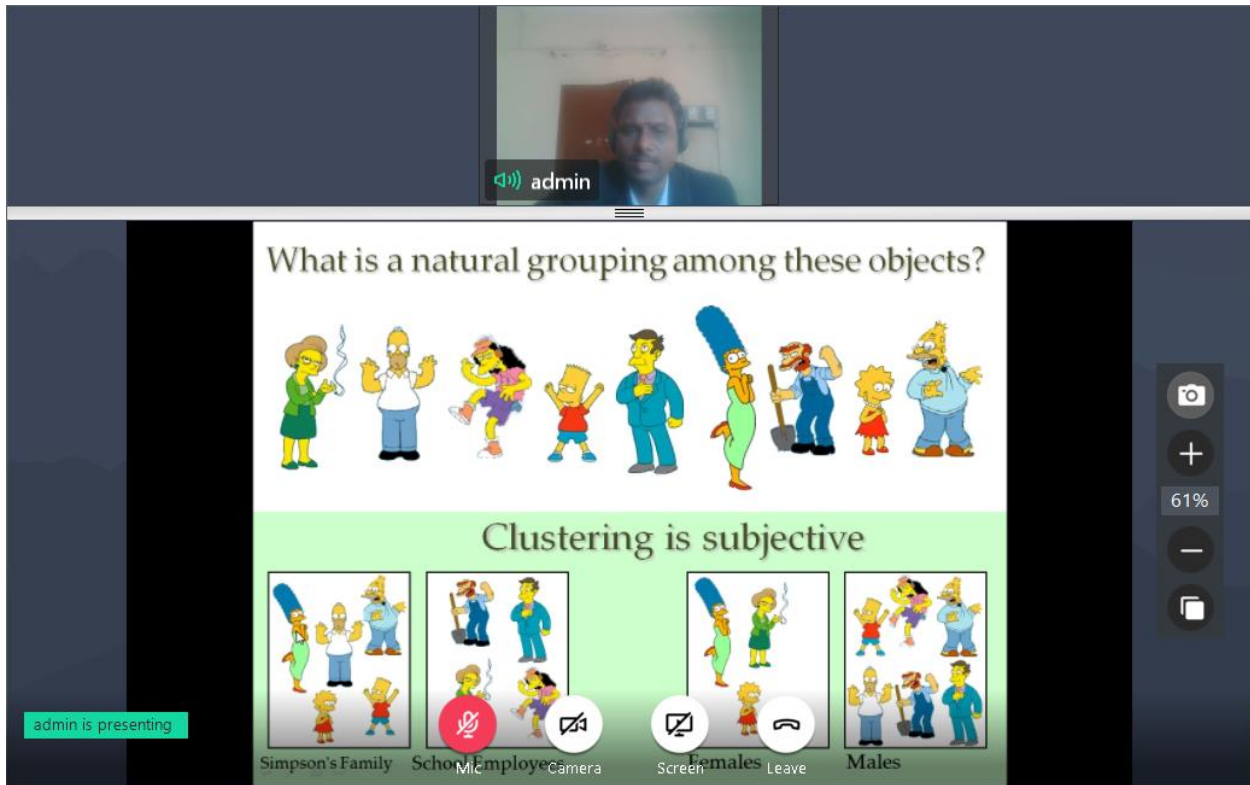


Fig. 3: Session on Machine Learning using R, by Dr. Senthilkumar, AP/CSE, Universtiy College of Engineering, Anna University, Trichy – Day 2

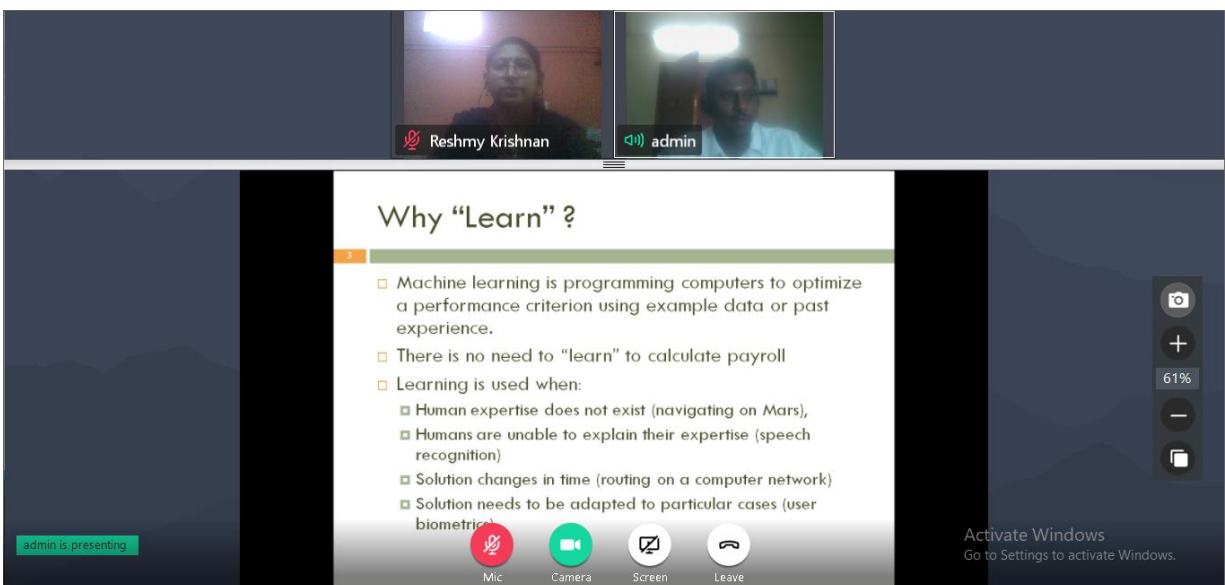


Fig. 4: Session on Deep Learning using R, by Dr. Senthilkumar, AP/CSE, Universtiy College of Engineering, Anna University, Trichy – Day 3

Annexure A

List of Participants:

S. No.	Name	Designation	Name of the Institute / Organisation	Email Address
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98	Mrs.	Nandhini Devi.S	Assistant Professor	BSAR	nandhini@crescent.education
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Annexure B

Sample Participation Certificates:



Fig. 5: Certificate of Mr. Pramod Nath, Assistant Professor, KIET Group of Institutions, Delhi-NCR, Ghaziabad.



Fig. 6: Certificate of Dr. A. Vishnupriya, Assistant Professor, Madanapally Institute of Technology & Science, Andhra Pradesh.

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Ms. Preeti Verma, AP / CA
Ms. Sabaria. AP / CA

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