	Master of Computer Applications

Report
On
Value Added Course: Certificate Course in Data Science

ACTIVITY :Value Added Course

Title : Certificate Course in Data Science

Values : Domain Knowledge; Modern Tool Usage; Professional Ethical Edification

Organized by : Department of Computer Applications

Program Theme : Certificate Course in Data Science

Objective : The purpose of this course is to equip students with the knowledge, skills, and tools necessary to work effectively with data and derive meaningful insights from it. The course will make students to be able to understand the basic concepts of data collection, cleaning, exploration and visualization, allowing them to apply their knowledge and skills to solve practical problems.

Internal Expert : Ms. Sania

Internal Resource Person Profile : Ms. Sania is currently working in Tecnia Institute of Advanced Studies as an Assistant Professor. She has 6 years of teaching experience. Her expertise is in DBMS, Java, Computer Networks, etc.

External Expert : Dr. Shalini Goel

External Resource Person Profile: Dr. Shalini Goel is currently working in HMR Institute of Technology and Management, Delhi as an Associate Professor. She has 18 years of teaching experience. Her expertise is in DBMS, Programming, Object-oriented Programming, Operating System, Computer Architecture, etc. She has published several research papers and authored 2 books.

Date	: 16-09-2019 to 24.10.2019
Time	: 2:00 pm to 3:00 pm
Venue	: Offline, Room No. 2203

Poster/Flyer/Notice*

Social media link *(promoting in any one Facebook/Instagram/Twitter is mandatory)*	https://www.instagram.com/tecniaofficial?igsh=MXdxdzZwb2EwaWszNg==
No. of Students* *(only no. to be written, list in excel or word should be maintain at department level as proof for any further requirement)*	50

No. of Faculty* *(only no. to be written , list in excel or word should be maintain at department level as proof for any further requirement)*	02
No. of External Participants (students + faculty) *[write NA if not applicable]*	NA

(Geotag) Photograph*	
Photograph of the Event with the Caption	
Report: Description in (min 250 to max 800 words)*	Data science is a multidisciplinary field that combines scientific methods, algorithms, and tools to extract insights and knowledge from structured and unstructured data. The course started with the introduction of Data Science and the resource person, Ms. Sania made the students aware of the concepts of data science, its application and significance in the field of Information Technology. The students learnt various methods of Data Collection, from various sources, including databases, sensors, social media platforms, and other sources. They learnt how to prepare and clean the data collected, formally known Data Preprocessing. Furthermore, they were taught the concepts of Exploratory Data Analysis, Data Visualization and other advanced topics. Also, the students learnt the capability to create clear and informative visualization that effectively communicate insights derived from data analysis. Besides this, the students developed the ability to formulate and frame real world problems as data science tasks, and to develop and implement

	appropriate solutions. They were able to communicate effectively the findings and insights to diverse audience, both technical and non-technical, through reports and presentations. The students were also given Hands-on training on the systems. Finally, the students were assessed on the basis of Quiz , Practical and Viva voce and all 50 students were given certificates based on their evaluation.
Learning Outcomes	The Learning Outcomes of the Value Added Course are as under: - Understanding, grasping meaning and information, Acquainted with internet - Demonstrate correct usage of method or procedure, Mathematics and Statistics for Data Science - Programming for Data Science - Data Wrangling and Pre-processing - Exploratory Data Analysis (EDA) - Machine Learning Algorithms - Data Mining and Pattern Recognition
Attendance Sheet*	*Attached at the end of Report*
Feedback	*Sample feedback Attached at the end of Report*
Report Submitted by Convener *(write faculty coordinator name)*	Mr. Mohit
For Office Use	
mohit **Signature of VAC Coordinator**	Vishal HoD MCA-TIAS **Signature of School/Department Head** *(With Seal)*