Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur Department of Mechanical Engineering 2019-20

Title of Event: TEQIP III Sponsored FDP on "Data Analytics for Engineers and Researchers"

Objectives/Scope:

Data analytics is an integral part of academics and industrial world. It plays an important role in growth of the business organizations and progress of a nation. In order to carry out research in an effective way, the engineers and researchers need to be trained in data analytics. This program will give participants a comprehensive understanding of planning and conducting scientific experiments for collecting data, and analyzing the data to have fruitful conclusions. The program has been designed to be generic in nature for satisfying the needs of students and faculty pursuing their M. Tech and Ph.D.s from academic institutions and industry personnel carrying out research in any field.

About the Event:

The FDP was started with lightening of lamp by Prof. S. L. Surana, Director (Academics), Prof. C. B. Gupta (Guest Speaker from BITS Pilani) and Prof. N.C. Bhandari (HOD, ME). The FDP team consists of Prof. Dhirendra Mathur as RTU (ATU)-TEQIP III coordinator, Dr. Aditya Mani Mishra as RTU Event coordinator, Dr. Om Ji Shukla and Dr. Manoj Kumar Sain as FDP Convener along with organizing team members which are Mr. Vinay Singh Marwal, Mr. Amit Kumar Bansal, Mr. Praveen Saraswat, Mr. Sumit Jhalani, Mr. Vishnu Jangid. Total 70 participants from different streams had attended this FDP. Participants included PG student, Ph.D. scholars and faculty members of SKIT Jaipur and other RTU affiliated colleges. A pool of experts from MNIT, BITS, IIT Delhi, Teri have taken lecture sessions on various topics such as Role of data analytics in research, MCDM techniques, Data pre-processing techniques, Probability distribution, Hypothesis testing, Design of Experiments, Taguchi method, Analysis of Variance, Regression, Factor analysis, Principal component analysis, Cluster analysis and Structural equation modeling. The FDP was concluded by valedictory session and certificate distribution to all the participants by Prof. S. L. Surana, Director (Academics) and Prof. N. K. Banthiya (Head, PAQIC).



Programme

Session times	8:45 AM-10:45 AM		11:00 AM-01:00 PM		02.00 PM - 04.00 PM	
Day 1 26/08/19 Monday	Registration (8:45-10:00 AM) Inauguration (10:00-10:30AM)	Tea	Introduction to Data Analytics Prof. C. B. Gupta (BITS Pilani)	Lunch	Probability Distribution Dr. GunjanSoni (MNITJaipur)	Tea
Day 2 27/08/19 Tuesday	Hypothesis Testing Dr. GunjanSoni (MNITJaipur)	Tea	MCDM Dr. Om JiShukla (SKITJaipur)	Lunch	ANOVA Prof. B. K. Rout (BITS Pilani)	Tea
Day 3 28/08/19 Wednesday	Design of Experiments <i>Prof. B. K. Rout</i> <i>(BITS Pilani)</i>	Tea	Factor Analysis Dr. Deepak Verma (MNITJaipur)	Lunch	Regression Prof. M L Mittal (MNITJaipur)	Tea
Day 4 29/08/19 Thursday	Cluster Analysis Dr. Deepak Verma (MNITJaipur)	Tea	Research Applications of Data Analytics Dr. NomeshBolia (IITD)	Lunch	Data preprocessing techniques Prof. Rajesh Kumar (MNITJaipur)	Tea
Day 5 30/08/19 Friday	Principal component analysis Dr. ShashankVyas (TERI, New Delhi)	Tea	Structural Equation Modeling Dr. Divesh Kumar (MNITJaipur)	Lunch	Valedictory	Tea

FDP COMMITTEE

CHIEF PATRON Prof. R. A. Gupta Honorable Vice-Chancellor, RTU

PATRON Sh. Raja Ram Meel, Patron, SKIT Sh. Surja Ram Meel, Chairman, SKIT

ADVISORS Sh. Jaipal Meel, Director, SKIT Prof. (Dr.) S.L. Surana, Director (Academics), Mrs. Rachna Meel, Registrar, SKIT Prof. (Dr.) Ramesh Kumar Pachar, Principal, SKIT

RTU (ATU) TEOIP-III COORDINATOR Prof. (Dr.) Dhirendra Mathur

RTU EVENT COORDINATOR Dr. Aditya Mani Mishra (Nodal officer)

HOST INSTITUTE COORDINATOR Dr. Mukesh Kumar Gupta, Prof. (CSE)

ADVISORS FDP Prof. (Dr.) N. C. Bhandari, HOD (ME) Prof. (Dr.) N. K. Banthiya, Head (PAQIC)

CONVENER FDP Dr. Om Ji Shukla, Associate Prof. (M.E.) Dr. Manoj Kumar Sain, Associate Prof. (M.E.)

RTU (ATU) TEQIP-III COMMITTEE Prof. D. K. Sambariya (Nodal Officer Procurement)

Dr. S. D. Purohit (Nodal Officer Finance) Dr. Irum Alvi (Conference) Mr. Santosh Sharma (Expert Lecture) Mr. Anshul Bansal (GATE & Induction) Mr. Dinesh Kumar (Workshop)

ABOUT TEQIEP-III

INSTITUTE ORGANIZING COMMITTEE Mr. Vinay Singh Marwal, Associate Prof. (M.E.) Mr. Amit Kumar Bansal, Associate Prof. (M.E.) Mr Praveen Saraswat, Assistant Prof. (M.E.) Mr. Sumit Jhalani, Assistant Prof. (M.E.) Mr. Vishnu Jangid, Assistant Prof. (M.E.)

SCOPE OF FDP

Data analytics is an integral part of academics and industrial world. It plays an important role in growth of the business organizations and progress of a nation. In order to carry out research in an effective way, the engineers and researchers need to be trained in data analytics. This program will give participants a comprehensive understanding of planning and conducting scientific experiments for collecting data, and analyzing the data to have fruitful conclusions. The program has been designed to be generic in nature for satisfying the needs of students and faculty pursuing their M. Tech and Ph.D.s from academic institutions and industry personnel carrying out research in any field.

CONTENT OF THE FDP > Role of data analytics in research

- Data pre-processing techniques
- > Descriptive and Inferential statistics
- Probability distributions
- Sampling distributions
- > Hypothesis testing
- > Analysis of Variance
- > Regression
- Logistic regression
- Design of Experiments
- > Taguchi method
- Multi-variate analysis
- > Factor analysis
- > Cluster analysis
- > Conjoint analysis > Hands-on-Sessions

value of discipline. The various undergraduate programmes of the institute are accredited by the National Board of Accreditation (NBA).

DEPARTMENT OF ME

The department started academic activities in the year 2003-04 with the admission of its first batch of under-graduates. The Department offers B.Tech in Mechanical Engg. and M.Tech in Production Engg and Renewable Energy Technology courses. The department has modern laboratories developed and designed from the perspective of the latest requirements of academia. Consistent pursuit of excellence by the department is clearly reflected in the fact that the department has been accredited by National Board of Accreditation (NBA) (India). The department has developed its facilities in such a way that students can practice self-study and undertake other curricular activities. Special attention is paid for developing positive attention, space positive attitudes, leadership, group working and safety consciousness in the students.

COURSE FEE

- > No fee for faculties and PG students from RTU Affiliated Institutes.
- > Rs.1000/- for PG students from Non-RTU
- Affiliated Institutes. > Rs.1500/- for faculties from Non-RTU
- Affiliated Institutes. > Rs.2500/- for participants from Industry.

EXPERTS

The lectures will be delivered by a pool of experts on the subject from reputed institutes like IIT, NIT, BITS Pilani and TERI.

ELIGIBILITY OF PARTICIPANT The FDP is interdisciplinary and it is open to faculty members engaged in Engineering and Science disciplines; Ph. D. and PG students of Engineering institutes / Science colleges.





Venue Department of Mechanical Engineering, Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur - 302017 Email: teqip.skit@gmail.com Web: www.skit.ac.in

REGISTRATION FORM

TEOIP-III Sponsored One Week FDP on "Data Analytics for Engineers and Researchers (August 26-30, 2019)

Name: Mr./Ms./Dr.

Designation: Institute Name

Affiliated to RTU: (Yes/No) Mohile No . E-Mail Id:

Seal & Signature of head of the Institute

Note: Submit the Registration Form through online process via: https://forms.gle/ZDTEXAZHRHeR3fbR6

The last date of registration for this FDP is August 20, 2019. Seats are limited, so the participants will be selected on first come first served basis.

CONTACT US

Dr. Om Ji Shukla Associate Professor, Department of ME, Mobile: 8947938722 Email: om.shukla@skit.ac.in

Dr. Manoj Kumar Sain Associate Professor, Department of ME, Mobile: 9929289630 Email: mksain1435@gmail.com

The Project, Third phase of Technical Education Quality Improvement program (referred to as TEQIP-III) is fully integrated with the twelfth five-year plan objectives for

Technical Education as a key Component for a improving the quality of Engineering Education in existing institutions with a special consideration for Low Income States and Special Category State and Support to Strengthen few affiliated technical universities to improve their policy, academic and management practices.

RTU, KOTA

Rajasthan Technical University (RTU) is located at Kota in the state of Rajasthan. It was established in 2006 by the Government of Rajasthan. The university currently affiliated about 129 engineering colleges, 04 B. Arch, 41 MCA Colleges, 95 MBA Colleges, 44 M. Tech. Colleges and 03 Hotel Management and Catering Institute. The University aims to provide quality technical education which may help Rajasthan in its technical development and will boost technical environment in the country

ABOUT SKIT

Swami Keshvanand Institute of Technology. Management & Gramothan (SKIT) is Ranked No. 1 Engineering College in Rajasthan declared by Rajasthan Technical University (RTU), Kota SKIT is a selective institution offering comprehensive undergraduate and postgraduate programmes in Engineering and Management. The institute was established in the year 2000 by a team of committed professionals and academicians. During all the past years SKIT has emerged as a premier centre of technical education not only in Rajasthan but also in northern India which as been realized through efficient and dedicated faculty members, innovative teaching learning methods, state of the art infrastructures and core

TOTAL PARTICIPANTS =

	TEQIP III-RTU Sponsored FDP on "Data Analytics for Engineers and Researchers" at SKIT Jaipur (August 26-30, 2019)							
		Attendance Sheet						
Sr. No.	Name	26/08/2019	27/08/2019	28/08/2019	29/08/2019	30/08/2019		
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9	Dr. Deepak Kumar	m	m	m	-m	The		
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14	Dr. Achin Srivastav	Ann	ahmi	dim	finn	dim		
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43	Dr. Sunita Gupta	Suits.	Junta	fritz	hig -	min
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58	Ankit Vijayvargiya	Antes	Am	antiz	Antri	dite

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62	Dr. Rita Jain	Marco	- ASS	ent -		
63	Nisha Payal		A	Isert		
64	Praveen Saraswat	Prave	Prave	from	Prave	Proce
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66	Ruchika Khandelwal	· fo	h	- 62	h	P
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68	Vijay Shankar Sharma		ABS.	ent -		
69	Niketa Sharma		ASS	ent		
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	TEQIP III-RTU Sponsored FDP on "Data Analytics for Engineers and Researchers" at SKIT Jaipur (August 26-30, 2019)						
Sr. No.	Name		Attendance S			1	
87	Devendra Dhoulpuriya	26/08/2019	27/08/2019	28/08/2019	29/08/2019	30/08/2019	
88	Kunal Advani	Devendra	Denerdra	Devendra	Devedia	Devendra	
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