



Report on

FIVE DAYS STUDENT WORKSHOP ON RESEARCH METHODOLOGY & DATA ANALYTICS (RMDA)

11 - 16 April, 2024

PATRONS

Shri Raja Ram Meel, Patron, SKIT
Shri Surja Ram Meel, Chairman, SKIT

ADVISORS

Shri Jaipal Meel, Director, SKIT
Prof. (Dr.) S.L. Surana, Director (Academics), SKIT
Mrs. Rachna Meel, Registrar, SKIT
Prof. (Dr.) Ramesh Kumar Pachar, Principal, SKIT
Mrs. Abha Meel, Adviser, SKIT
Prof. (Dr.) R.K. Jain, Dean, SKIT
Prof. (Dr.) Anil Choudhary, HOD (IT), SKIT
Prof. (Dr.) Mukesh Gupta, HOD (CSE), SKIT
Prof. (Dr.) Dheeraj Joshi, HOD (ME), SKIT
Prof. (Dr.) Mukesh Arora, HOD (ECE), SKIT
Prof. (Dr.) Ona Ladiwal, HOD (DMS), SKIT
Prof. (Dr.) D.K. Sharma, HOD (CE), SKIT
Dr. Sarfaraz Nawaz, Head (EE), SKIT
Prof. (Dr.) Rohit Mukherjee, Incharge, B.Tech.I Year
Prof. (Dr.) Amber Shrivastava, Head (Maths), SKIT
Dr. Sharda Soni, Head (Chemistry), SKIT
Prof. (Dr.) Brajraj Sharma, Head (Physics), SKIT
Prof. (Dr.) Neha Parohit, Head (English), SKIT

COORDINATORS

Dr. Deepak Kumar, Associate Professor (ME)
Dr. Achin Srivastav, Associate Professor (ME)

ORGANIZING SECRETARY

Dr. Manoj Kumar Sain, Associate Professor (ME)

ORGANIZING COMMITTEE

Dr. Raj Kumar, Assistant Professor (ME)
Ms. Namita Soni, Assistant Professor (ME)
Mr. Sudesh Garg, Assistant Professor (ME)
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REGISTRATION FORM

To join workshop, you are requested to register your name by clicking the following registration link:

<https://forms.gle/pXU4HxoG217QWvGE6>

- The Workshop will be conducted in *Physical Mode*.
- *Only 35 Seats are available (20 for UG students of ME Deptt having good attendance, 15 for PG & Ph.D. scholars (FCFS) of SKIT Jaipur)*
- Participation Certificate will only be provided to the participants who have *attendance more than 70% in the workshop*.

CONTENTS

- Introduction to Data Analytics, Descriptive Statistics with Hand on practice using SPSS / Excel
- Introduction to Research Methodology
- Correlation, Regression and ANOVA using SPSS / Excel
- Predictive and Prescriptive Statistics and Hands on Practice using Excel
- Hypothesis Testing using SPSS/Excel

REGISTRATION FEE

No Registration fee for the workshop.

IMPORTANT DATES

Registration starts from: 3rd April, 2024

Last Date for Online Registration: 6th April, 2024

Student Workshop Dates: 11th -16th April, 2024

SCHEDULE

Day	Session-1	Session-2
1	12.30-1:45 PM	2.00-3:15 PM
2	12.30-1:45 PM	2.00-3:15 PM
3	12.30-1:45 PM	2.00-3:15 PM
4	12.30-1:45 PM	2.00-3:15 PM
5	12.30-1:45 PM	2.00-3:15 PM

Student Workshop on Research Methodology and Data Analytics (RMDA)

11th -16th April, 2024

Organized By:



NAAC A++

Department of
Mechanical Engineering
(NBA Accredited)

Swami Keshvanand Institute of Technology,
Management & Gramothan, Ramnagaria
Jagatpura, Jaipur - 302017
Website: www.skit.ac.in

COORDINATOR

Dr. Deepak Kumar, Associate Professor (ME)

Dr. Achin Srivastav, Associate Professor (ME)

ORGANIZING SECRETARY

Dr. Manoj Kumar Sain, Associate Professor (ME)

ORGANIZING COMMITTEE

Dr. Raj Kumar, Assistant Professor (ME)

Mr. Sudesh Garg, Assistant Professor (ME)

Ms. Namita Soni, Assistant Professor (ME)

Mr. Sandeep Kr Bhaskar, Assistant Professor (ME)

Speakers

1	Prof. Brijesh Awasthi	ICFAI, University Jaipur
2	Dr. Manoj Kumar Sain	Department of Mechanical Engg., SKIT Jaipur
3	Dr. Achin Srivastav	Department of Mechanical Engg., SKIT Jaipur
4	Dr. Deepak Kumar	Department of Mechanical Engg., SKIT Jaipur

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The Data Analytics Workshop began on 11th April 2024 with an inaugural function graced by the presence of Prof. Dheeraj Joshi, Head of Department, Mechanical Engg, SKIT Jaipur. Total there were 35 participants including the M.Tech. and Ph.D. research scholars. The objective of the workshop was to introduce the concept and techniques of Research Methodology and Data Analytics which were successfully met by the informative lectures of the distinguished Experts.

On the first day Dr. Achin Srivastav, Associate Prof., Deptt., of Mechanical Engg., SKIT, conducted a session on Descriptive Analysis followed by hands on practice on Excel and SPSS software. Students learnt the various useful tools and techniques in this session.

The Second session was conducted by Dr. Deepak Kumar, Associate Prof., Deptt., of Mechanical Engg., SKIT in which the significance of Research methodology and use of Correlation and Regression analysis were explained. On the third day Prof. Brijesh Awasthi explained the use of pivot table in MS-Excel with various examples. Use of paired t-test was also discussed by him.

Dr. Manoj Kumar Sain, Associate Prof., Deptt., of Mechanical Engg., SKIT explained the significance of hypothesis testing in Research with various examples on the fourth day of the workshop. Students learnt about the significance of Null and alternative hypothesis.

On the fifth day of the workshop, Dr. Achin Srivastav explained about the importance and application of Time series and ARIMA method to students.

List of Registered Candidates

Student Workshop on Research Methodology and Data Analytics 11-16 APRIL 2024 (12:30-3:15 PM)

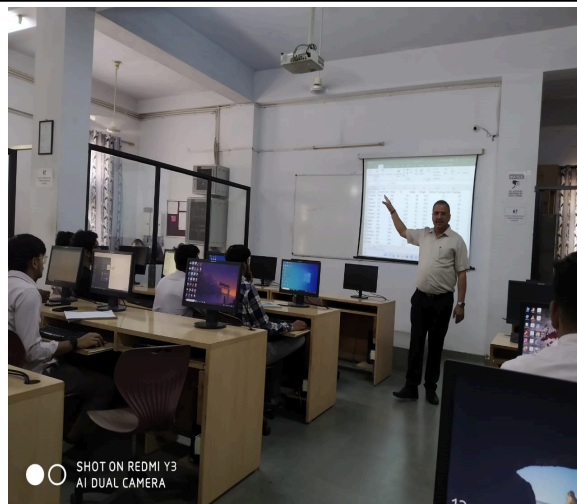
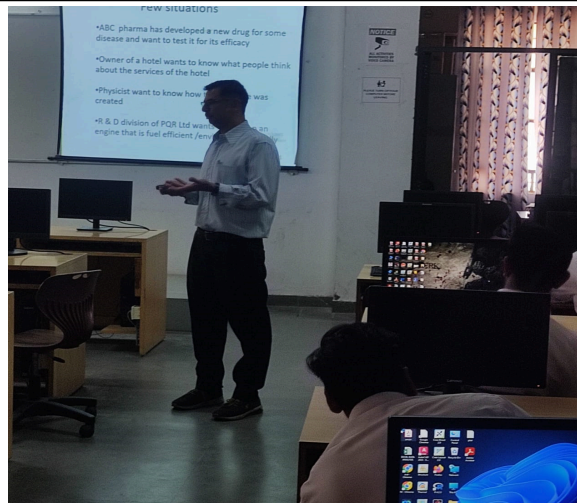
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27	Vansh Sinsinwar	21ESKME030	B.Tech.	III	7878113246	vanshsinsinwar028@gmail.com	b211149@skit.ac.in
28	Vidhesh Khanna	21ESKME031	B.Tech.	III	8824056953	vidheshkhanna@gmail.com	b210778@skit.ac.in
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30	Himanshu Sharma	22ESKME201	B.Tech.	III	8302189862	hs8007467@gmail.com	l220032@skit.ac.in
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35	Pramod Jain	22ESKME952	PhD	II	9414656550	pramodenergy@gmail.com	pramod.jain@skit.ac.in
36	Sandeep Kumar Bhaskar	21ESKME952	PhD	II	9887413133	sandeepkumarbhaskar@gmail.com	sandeep.bhaskar@skit.ac.in

Attendance Sheet

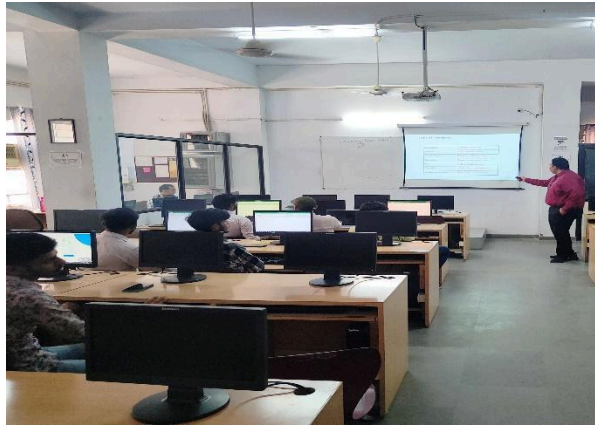
Student Workshop on Research Methodology and Data Analytics 11-16 APRIL 2024 (12:30-3:15 PM)

S.No	Name	Roll Number	Year of Study	11/04/2024	12/04/2024	13/04/2024	15/04/2024	16/04/2024
1	Akshat Joshi	22ESKME004	II	AB	P	P	P	P
2	Arbaz Mohammad	22ESKME007	II	AB	P	P	P	P
3	Krishna chaturvedi	22ESKME025	II	P	P	P	P	P
4	Kshitiz joshi	22ESKME026	II	P	P	P	P	P
5	Madhvendra Singh	22ESKME027	II	P	P	P	P	P
6	Manthan Akar	22ESKME031	II	P	P	P	P	P
7	Shubh Chugh	22ESKME043	II	P	P	P	P	P
8	Akash	21ESKME002	III	AB	P	P	P	P
9	Ansh Kumar	21ESKME004	III	P	P	P	P	P
10	Bhavya Sharma	21ESKME007	III	P	P	AB	P	AB
11	Devi Pratap Singh Rajawat	21ESKME008	III	P	P	P	P	AB
12	Harsh Singh	21ESKME009	III	AB	P	P	P	AB
13	Harshvardhan Verma	21ESKME010	III	P	P	P	AB	AB
14	Hiren Mathur	21ESKME011	III	P	P	P	P	P
15	Kishor Vishwakarma	21ESKME013	III	P	P	P	AB	AB
16	Kuldeep Singh Meena	21ESKME014	III	P	P	P	P	P
17	Kunal ojha	21ESKME015	III	AB	P	P	P	AB
18	Milind Mathur	21ESKME016	III	P	P	P	P	P
19	Nikhil sharma	21ESKME019	III	P	P	P	P	AB
20	Nishant saini	21ESKME020	III	P	P	P	P	AB
21	Parikshit Singh	21ESKME022	III	AB	P	P	P	AB
22	Rohit Kumar Soni	21ESKME024	III	P	P	P	AB	AB
23	Sanjay Kumar Jangid	21ESKME026	III	AB	P	P	AB	AB
24	Shorya Pathak	21ESKME027	III	P	P	P	P	P
25	Shubham Patel	21ESKME028	III	P	AB	P	AB	AB
26	Sourav	21ESKME029	III	P	P	P	AB	AB
27	Vansh Sinsinwar	21ESKME030	III	P	P	P	AB	AB
28	Vidhesh Khanna	21ESKME031	III	AB	P	P	P	AB
29	Vikas Sharma	21ESKME032	III	AB	P	AB	P	AB
30	Himanshu Sharma	22ESKME201	III	P	P	P	P	AB
31	Monika Khurana	23ESKME951	I	P	P	P	AB	P
32	Monu Gupta	23ESKME952	I	P	P	P	AB	P
33	Sudesh Garg	23ESKME953	I	P	P	P	AB	P
34	Nitin Goyal	23ESKRE952	I	P	P	P	AB	P
35	Pramod Jain	22ESKME952	II	P	P	AB	AB	P
36	Sandeep Kumar Bhaskar	21ESKME952	II	P	AB	P	P	P

Workshop Photograph







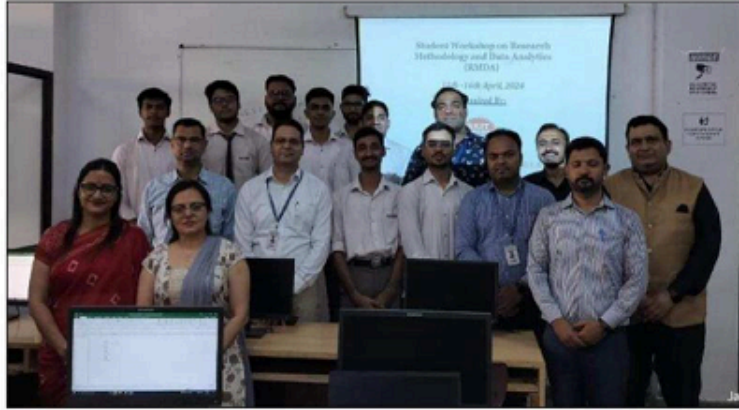


Media Coverage

एसकेआईटी में रिसर्च मेथडोलॉजी एंड डेटा एनालिटिक्स विषय पर पांच दिवासीय कार्यशाला का शुभारंभ

P3 Police Public Politics

जगतपुरा । स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी के मैकेनिकल इंजीनियरिंग विभाग में 'रिसर्च मेथडोलॉजी एंड डेटा एनालिटिक्स' विषय पर पांच दिवसीय कार्यशाला का शुभारंभ हुआ जिसका उद्देश्य प्रतिभागियों में रिसर्च और डेटा एनालिटिक्स के प्रति रूझान बढ़ाना है। जिसके उद्घाटन सत्र में विभागाध्यक्ष प्रोफेसर धीरज जोशी ने व्यवसाय, स्वास्थ्य सेवा, विनिर्माण आदि क्षेत्रों में इस विषय की महत्ता और अनुप्रयोग के बारे में बताया। पहले दिन के विशेषज्ञ डॉ. अचिन श्रीवास्तव ने वर्णनात्मक सांख्यिकी विषय पर अपना संबोधन प्रस्तुत किया। इस कार्यशाला में बीटेक,



एमटेक और पीएचडी पाठ्यक्रमों के कुल 41 प्रतिभागियों ने भाग लिया। आगामी दिनों में नामी विशेषज्ञ डॉ. दीपक कुमार, डॉ. मनोज कुमार सैन (एसकेआईटी संस्थान) एवं डॉ. ब्रिजेश अवस्थी

(आईसीएफएआई विश्वविद्यालय) अपना ज्ञान साझा करेंगे। सम्पूर्ण कार्यशाला का समन्वय डॉ. दीपक कुमार और डॉ. अचिन श्रीवास्तव द्वारा किया जाएगा।