A Report on

3 Days Student Workshop (Offline Mode)

On

"Industrial Component Enhancement Program"

13-15 October,2022

Organized by

IEI STUDENT CHAPTER

Submitted by

Mr. Tarun Naruka (Associate Professor)

Mr. Akash Deo (Assistant Professor)

Mr. Vikas Mahala (Assistant Professor & Deputy Head)

Mr. Deepak Saini (Assistant Professor)

Department Of Electrical Engineering (SKIT)

Index

1. About SKIT: -

SKIT(SKIT), inspired from the learnings of Swami Keshvanand, was established in the year 2000 by Technocrats and Managers Society for Advanced Learning. Today, the Institute is recognized as one of the centers of academic excellence in Northern India. The Institute is affiliated to Rajasthan Technical University, Kota for offering Ph. D., Postgraduate and Graduate Courses in Engineering and Management.

Located in the Pink City Jaipur, which is a blend of traditional history and modern outlook, SKIT is putting in efforts for making industry ready engineers and managers through effective Industry –Institute Interface. Apart from University curriculum, SKIT also pursues activities for research and development in various fields.

The green landscaping, aesthetic elegance of arches and the vibrant pursuit of knowledge by the young aspirants make the environment serene, pleasant and dynamic. Students joining the institute share the box full of opportunities for professional and personal development through an environment of practical orientation, industrial interaction and student led activities which help the students to develop good communication skills, integrated personality and greater competitive spirit.

Our Inspiration

"Mass illiteracy is the root cause behind backwardness of India. If we want speedy progress of nation, we need to root it out as early as possible."

– Swami Keshvanand

Swami Keshvanand, an orphan, illiterate, nomadic man who never received formal education, was the founder of more than 300 schools, 50 hostels and innumerable libraries, social service centres and museums. Swami Keshvanand had a deep understanding of the rural society of the desert region. He had explained the peculiarities of the desert region, identified the problems and suggested appropriate and logical solutions. It was Swami Keshvanand's lifelong endeavours to eradicate social evils like untouchability, child marriage, indebtedness, poverty, backwardness, alcohol abuse, moral dissipation etc.

Vision

To promote higher learning in advanced technology and industrial research to make our country a global player.

Mission

To promote quality education, training and research in field of Engineering by establishing effective interface with industry and to encourage faculty to undertake industry sponsored projects for students.

Quality Policy

We are committed to 'achievement of quality' as an integral part of our institutional policy by continuous self-evaluation and striving to improve ourselves. Institute would pursue quality in

• All its endeavours like admissions, teaching- learning processes, examinations, extra and co-curricular activities, industry institution interaction, research & development, continuing education, and consultancy.

• Functional areas like teaching departments, Training & Placement Cell, library, administrative office, accounts office, hostels, canteen, security services, transport, maintenance section and all other services."

2. Approval letter of the Workshop: -

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
(Department of Electrical Engineering)

Proposal for

3 Days Student Workshop (Offline Mode)
On
"Industrial Competent Enhancement Program"

07/10/2022

Proposed Dates	13 – 15 October, 2022
Coordinators	Mr. Tarun Naruka, Associate Professor.
	Mr. Akash Deo, Assistant Professor
	Mr. Vikas Mahala, Assistant Professor
	Mr. Deepak Saini, Assistant Professor

Objective: To enhance the applied knowledge of engineering concept which

are fruitful for employability skill

Target Audience: II year Students of Electrical Department

Expert Members: Faculty members (EE & Other department) and
Eminent Persons from Industry

Proposed Budget

S.No	Item	Total
1	External Faculty remuneration	15000/-
2	Printing materials and stationary items	3000/-
	Total	18,000/-

Kindly approve the budget of Rs. 18000/- only

Yes permitted.
Forwarded to Registrar/Director
for approval.
8/10/22

Approved

8/10/2022

Dr. Sarfaraz Nawaz

(Head-EE Dept)

3. Documents related to finance: -

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
(Department of Electrical Engineering)

Proposal for

3 Days Student Workshop (Offline Mode)
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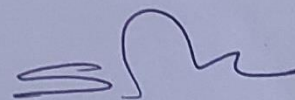for approval.
8/10/22

Approved
8/10/2022

Dr. Sarfaraz Nawaz

(Head-EE Dept)

- 6 -

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
Department of Electrical Engineering

Name of Event	3 days student workshop on "Industrial Competent Enhancement Program"
Date	13-15 October, 2022

Expenditure details

S.No.	Particular	Amount in Rs/-
1	Honorarium for 3 members @2500	7500/-
	Total	7500/-

Dr. Sarfaraz Nawaz

Head, EE Dept.

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

Name of Event	3 days student workshop on "*Industrial Competent Enhancement Program*"
Date	13-15 October, 2022

Expenditure details

S.No.	Particular	Amount in Rs/-
1	Bill No.1	1133/-
2	Bill No.2	500/-
3	Petrol expenses	200/-
	Total	1833/-

Amount issued - 3000/-

Amount spent - 1833/-

Amount returned - 1167/-

Dr. Sarfaraz Nawaz

Head, EE Dept.

TAX INVOICE   ORIGINAL FOR RECIPIENT

Bill No. 1

PRINTING ASPIRATION PRIVATE LIMITED

89, Vasudev Puri-A,Kalwar Road, Jhotwara, Jaipur
GSTIN: 08AALCP9951F1ZW   Mobile: 8696675314
PAN Number: AALCP9951F

Invoice No. PA/SL/22-23/50	
Invoice Date 08/11/2022	
Due Date 08/12/2022	

BILL TO	SHIP TO
SKIT JAIPUR	SKIT JAIPUR
Address: Jagatpura, Jaipur	Address: Jagatpura, Jaipur
Place of Supply: Rajasthan	

S.NO.	ITEMS	QTY.	RATE	AMOUNT
1	Color Print Outs Certificate A4 Size; 300 GSM Multicolor	103 PCS	9.32	960.17
	CGST @9%	-	-	₹ 86.42
	SGST @9%	-	-	₹ 86.42
	TOTAL	103		₹ 1,133

HSN/SAC	Taxable Value	CGST		SGST		Total Tax Amount
		Rate	Amount	Rate	Amount	
-	960.17	9%	86.42	9%	86.42	₹ 172.83
Total	960.17		86.42		86.42	₹ 172.83

Total Amount (in words)
One Thousand One Hundred Thirty Three Rupees

Bank Details	Terms and Conditions	
Name: Printing Aspiration Pvt. Ltd.	Thanking you!	
IFSC Code: HDFC0008810		
Account No: 50200068110034		Authorised Signatory For
Bank: HDFC Bank ,DCM AJMER ROAD		PRINTING ASPIRATION PRIVATE LIMITED

CASH MEMO रोकड़पत्र रेखा एण्ड सन्स विक्रेता

Bought of विक्रेता

Sold to क्रेता __ E.E Isafhire WORKSHOP

No. क्रमांक ____   Date तिथि 12|10|2८

QNTY. संख्या	PARTICULARS विवरण	RATE दर	AMOUNT रकम Rs. ₹	P.
5	HAUSER Pen	100	500	
			Total कुल जोड़	

Thank You ! धन्यवाद !
E. & O.E. भूल-चूक लेनी देनी

Rekha

• Goods once sold will not be taken back.

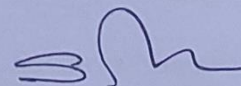Signature हस्ताक्षर

4. Honorarium for Eminent Speaker: -

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

Department of Electrical Engineering

Honorarium for Eminent Speaker

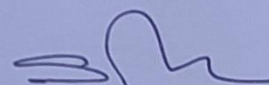| Name of Event	3 days student workshop on *"Industrial Competent Enhancement Program"*
Date of Keynote address	13-15 October, 2022
Name of Eminent Speaker	Dr. M. P. Sharma
Affiliation	Assistant Engineer, RVPN, Jaipur
Topic	Case Study on Impact of reactive power flow on transmission losses
Bank Account No	51090693328
Bank Detail	SBI, Vidyut Bhawan Branch, Jaipur
IFSC Code	SBIN0031866
PAN Number (Attach Copy)	AKSPS8878G
Amount	2500/-

yes permitted
14.11.22

Dr. Sarfaraz Nawaz

Head, EE Dept.

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
Department of Electrical Engineering

Honorarium for Eminent Speaker

Name of Event	3 days student workshop on *"Industrial Competent Enhancement Program"*
Date of Keynote address	13-15 October, 2022
Name of Eminent Speaker	Ajay Kumar Swarnkar
Affiliation	Seldom India Technologies
Topic	AI & SQL
Bank Account No	665901501099
Bank Detail	ICICI BANK (Ajay Kumar)
IFSC Code	ICIC0006659
PAN Number (Attach Copy)	GLUPS9016K
Amount	2500/-

Yes permitted.

14.11.2.2

Dr. Sarfaraz Nawaz

Head, EE Dept.

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
Department of Electrical Engineering

Honorarium for Eminent Speaker

Name of Event	3 days student workshop on *"Industrial Competent Enhancement Program"*
Date of Keynote address	13-15 October, 2022
Name of Eminent Speaker	Kartavya Jain
Affiliation	Seldom India Technologies
Topic	Python
Bank Account No	00031140171855
Bank Detail	HDFC BANK (Kartavya Jain)
IFSC Code	HDFC0000003
PAN Number (Attach Copy)	ANJPJ5491Q
Amount	2500/-

yes permitted
14.11.22

Dr. Sarfaraz Nawaz

Head, EE Dept.

5. Committee of the Workshop: -

TEAM MEMBERS

Mr. Akshit Tiwari

Ms. Kunika Khandelwal

Mr. Mayank Jhajharia

Ms. Mumal Bhati

Mr. Naman Saini

Ms. Vaidehi Mudgal

Mr. Yash Jindal

Mr. Yash Saini

Mr. Yash Soni

Mr. Yathartha Solanki

6. Publicity of the Workshop: -

REGISTRATION

To join the workshop, click on the below registration link or scan QR code.

https://forms.gle/qg4zVXXhNrSCa1H28

CO-ORDINATORS

Mr. Tarun Naruka
Associate Prof.(EE Dept.,SKIT)
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Mr. Akash Deo
Assistant Prof.(EE Dept.,SKIT)
Phone: 97844 40886

Mr. Vikas Mahala
Assistant Prof.(EE Dept.,SKIT)
Phone: 85618 11965

Mr. Deepak saini
Assistant Prof.(EE Dept.,SKIT)
Phone: 90248 79584

SKIT

A STUDENT WORKSHOP

ON

INDUSTRIAL COMPETENT ENHANCEMENT PROGRAM

13th - 15th OCTOBER,2022

Organized by

IE(I) STUDENT CHAPTER (ELECTRICAL ENGINEERING)

DEPARTMENT OF ELECTRICAL ENGINEERING
Swami Keshvanand Institute of Technology, Management & Gramothan, Ramnagaria, Jagatpura, Jaipur, Rajasthan, India
www.skit.ac.in

ABOUT SKIT, JAIPUR

Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT) has been Ranked No.1 Engineering Institute in Rajasthan by RTU Kota consecutively for the last five years. 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 has been realized through efficient and dedicated faculty members, innovative teaching learning methods, and core value of discipline. The various undergraduate programmes of the institute are accredited by the National Board of Accreditation (NBA). SKIT is only affiliated technical institute in Rajasthan to have earned an A++ grade by National Assessment And Accreditation Council (NAAC).

DEPARTMENT OF ELECTRICAL ENGINEERING

The Department of Electrical Engineering is distinctly focused towards integrating academics with cutting edge technology in the field of Electrical Engineering. The B. Tech. Program has been accredited four times in succession by NBA since 2009 Department is also conducting M. Tech. and Ph.D Program in Power Systems specialization. All efforts are subtly harnessed with the aim of preparing the budding engineers to face the challenging dimensions of technical excellence in areas such as Electrical Machines & Drives, Control & Automation, Power Systems Design, Power Electronics and MATLAB Applications. The department puts in consistent efforts for field exposure to students through various research oriented projects taken up for meeting the industry demands. The department offers a perfect blend of Electrical, Electronics and Computer related courses to help students pursue a professional career or higher studies

ABOUT THE WORKSHOP

The workshop aims at deliberation, sharing knowledge to the target audience about the significance of different tools and their applications. The workshop will going to enhance students knowledge in different specialised areas. The students will get to learn about Industrial Automation, IoT along with an overview on enhancing communication skills in corporate world.

THRUST AREA

- Python Programming
- MATLAB Simulation and Modelling
- Hands on PV Syst. Software
- Basic of Programming Language
- Industrial Automation (IA) and SQL
- Internet of Things (IoT)
- PCB Design
- Soft Skills

WORKSHOP SCHEDULE

The workshop will be conducted from 13th-15th October, 2022 consisting of three sessions in each day.

DATE	8:30-10:00 AM	10:00-11:30 AM	12:30-1:30 PM
13th OCT 2022	Basics of C++	MATLAB	Basics of IoT
14th OCT 2022	Basics of PV Syst. Software	PCB Design	Soft Skills
15th OCT 2022	Rajasthan Power System Structure	Basics of Python	IA and SQL

7. Schedule of the Workshop: -

A STUDENT WORKSHOP ON

INDUSTRIAL COMPETENT ENHANCEMENT PROGRAM

13th-15th OCTOBER, 2022

(Day-1)

| Session-I (8:30-10:00AM) | Session-II (10:00-11:30PM) | Session-III (12:30-1:30PM) |

Mr. Kailash Soni
Associate Prof.
(CS Dept.,SKIT)

Mr. Tarun Naruka
Associate Prof.
(EE Dept.,SKIT)

Mr. Dinesh Kumar
Assistant Prof.
(ECE Dept.,SKIT)

Basics
of
C++
Programing

An
Introduction
of MATLAB
for Electrical
Engineers

Basics
of Internet
of Things
(IoT)

Organized by

IE(I) Student Chapter

Department of Electrical Engineering
Swami Keshvanand Institute of Technology, Management & Gramothan

A
STUDENT
WORKSHOP
ON

INDUSTRIAL COMPETENT ENHANCEMENT PROGRAM

13th-15th OCTOBER, 2022

(Day-3)

Session-I (8:30-10:00AM)	Session-II (10:00-11:30PM)	Session-III (12:30-1:30PM)

Dr. M.P Sharma
RRVPNL, Jaipur

Kartavya Jain
Co-Founder
Seldom India

Ajay Soni
Sr. Developer
Seldom India

Rajasthan
Power
System
Structure

Basics
of
Python

IA
and
SQL

Organized by

IE(I) Student Chapter

Department of Electrical Engineering
Swami Keshvanand Institute of Technology, Management &
Gramothan

8. List of Registered Candidates: -

S.No.	Name	College ID	Branch	Email-Id
1	Saloni	B211134	Electrical Engineering	garg.saloni583@gmail.com
2	Naveen Ghosliya	B210514	Electrical Engineering	naveenghosliya2003@gmail.com
3	Khwaish Gupta	B210693	Electrical Engineering	khwaish72003@gmail.com
4	Mohit Jarwal	B210593	Electrical Engineering	mohitjarwal012@gmail.com
5	Mohammed fardeen	B210722	Electrical Engineering	mohdfardeen484@gmail.com
6	Karan mourya	B211150	Electrical Engineering	nkmorya 2@gmail.com
7	Radheshyam Sharma	B210292	Electrical Engineering	rohitsharmajii5164@gmail.com
8	Pradeep Badgoti	B211159	Electrical Engineering	pradeepbadgoti4@gmail.com
9	Shivam tiwari	b210474	Electrical Engineering	shivsharma045.2021@gmail.com
10	Pranshul Singh	B210248	Electrical Engineering	pranshulsinghmo.ms84@gmail.com
11	Yash agarwal	B210398	Electrical Engineering	yashagarwal280502@gmail.com
12	Rashi Chouhan	B211112	Electrical Engineering	rashichouhan241@gmail.com
13	Preeti Gupta	B210460	Electrical Engineering	guptapreeti3019@gmail.com
14	Virendra Singh Rathore	B211107	Electrical Engineering	krishnarathore000.kr@gmail.com
15	Rahul Singh Panwar	B211079	Electrical Engineering	rahulsingh02003@gmail.com
16	Kannu Sharma	B211099	Electrical Engineering	kannusharmajaipur@gmail.com
17	Shreyash Sharma	B210374	Electrical Engineering	shreyashsharma640@gmail.com
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19	Kanishk saini	B211106	Electrical Engineering	kanishkofficialmgmt@gmail.com
20	Yash mina	B210613	Electrical Engineering	yashmeena1020@gmail.com
21	Hardik Verma	b211111	Electrical Engineering	hardikdc12@gmail.com
22	Tanu Meena	B210986	Electrical Engineering	tanubhajera@gmail.com

23	Aman Jangid	B210762	Electrical Engineering	amanjangid3891@gmail.com
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25	Devesh nagar	B210597	Electrical Engineering	deveshnagar2003@gmail.com
26	Aman Maru	B210704	Electrical Engineering	amanmaru107@gmail.com
27	Sumit sarsar	B210688	Electrical Engineering	sumitsarsar4@gmail.com
28	Devesh Sharma	B210596	Electrical Engineering	joshidev062@gmail.com
29	Bhavya singh	B210979	Electrical Engineering	bhavyasingh340@gmail.com
30	Ashish Mahawar	B210380	Electrical Engineering	ashish.mahawar018@gmail.com
31	Himanshu Choudhary	B210566	Electrical Engineering	hc3618838@gmail.com
32	Parag saini	B211035	Electrical Engineering	paragsaini75@gmail.com
33	Keshav Gautam	B210281	Electrical Engineering	keshavgautam202@gmail.com
34	Kartikey Nehra	B210623	Electrical Engineering	kartikeynehra2021@gmail.com
35	Ronak Kumar	B210984	Electrical Engineering	ronakrk261@gmail.com
36	Priyanshu Sharma	B211085	Electrical Engineering	priyanshu10062003@gmail.com
37	Harish	B210785	Electrical Engineering	harish05122003@gmail.com
38	Nishchay Parashar	B210891	Electrical Engineering	nishchayparashar2004@gmail.com
39	Himanshu Yadav	B211119	Electrical Engineering	himanshu.skit2021@gmail.com
40	Badal saini	B210999	Electrical Engineering	sainishaba24@gmail.com
41	Kanishk khandal	B210786	Electrical Engineering	kanishkkhandal6165@gmail.com
42	Vipendra Singh	B210695	Electrical Engineering	vipendrasingh8283@gmail.com
43	Rakesh swami	B210506	Electrical Engineering	swamirk9664@gmail.com
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45	Pradeep Singh Rajawat	B210591	Electrical Engineering	singh.pradeep998247@gmail.com
46	Vivek Singh	B210257	Electrical Engineering	sahins8949455@gmail.com

47	Sarthak verma	B210347	Electrical Engineering	sarthakrajwaniya@gmail.com
48	Shankar yogi	B210473	Electrical Engineering	shankaryogi14988@gmail.com
49	Shivam Tiwari	B210474	Electrical Engineering	shivsharma045.2021@gmail.com
50	Sagar Kumar gurjar	B210528	Electrical Engineering	sagarsmd12@gmail.com
51	Kailash pooniya	B210594	Electrical Engineering	kpuniya45@gmail.com
53	Arman Mathew	B210424	Electrical Engineering	mathewarman2003@gmail.com
54	Anuj kanchal	B210486	Electrical Engineering	anujkanchal29@gmail.com
55	Pankaj Kumar Samota	B210982	Electrical Engineering	pankajsamota30@gmail.com
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61	Shivam Gupta	B210303	Electrical Engineering	shivam.is.shivay@gmail.com
62	Palak	B211126	Electrical Engineering	palaksihag26@gmail.com
63	Kanika Gupta	B210497	Electrical Engineering	guptakanika954@gmail.com
64	Sachin Meena	B210701	Electrical Engineering	sachin9462655095@gmail.com
65	Chirag Parihar	B211041	Electrical Engineering	chiragsinghparihar31@gmail.com
66	Deependra Singh Ranawat	B210637	Electrical Engineering	ranawat1029@gmail.com
67	Shreyansh Meena	B211091	Electrical Engineering	shreyanshmeena766@gmail.com
68	Ankita Jangir	B210761	Electrical Engineering	aktjangid@gmail.com
69	Ayush gaur	B210770	Electrical Engineering	ayushgaur292003@gmail.com

9. Attendance of the Workshop: -

S.No.	Roll No.	Name
1	21ESKEE001	Abhay Verma
2	21ESKEE002	Abhinav Srivastava
3	21ESKEE004	Aman Jangid
4	21ESKEE005	Aman Maru
5	21ESKEE006	Ankita Jangir
6	21ESKEE007	Anuj Kanchal
7	21ESKEE008	Arman Mathew
8	21ESKEE009	Ashish Mahawar
9	21ESKEE010	Ayush Gaur
10	21ESKEE011	Badal Saini
11	21ESKEE012	Bhavya Singh
12	21ESKEE013	Chirag Parihar
13	21ESKEE014	Deependra Singh Ranawat
14	21ESKEE015	Devesh Nagar
15	21ESKEE016	Devesh Sharma
16	21ESKEE017	Dipesh Jalwania
17	21ESKEE018	Divya Jain
18	21ESKEE020	Hardik Verma
19	21ESKEE021	Harish
20	21ESKEE022	Harshit Sharma
21	21ESKEE023	Himanshu Choudhary
22	21ESKEE024	Himanshu Yadav
23	21ESKEE026	Kailash Pooniya
24	21ESKEE027	Kalpit Mathur
25	21ESKEE028	Kanika Gupta
26	21ESKEE029	Kanishk Khandal
27	21ESKEE030	Kanishk Saini
28	21ESKEE031	Kannu Sharma
29	21ESKEE032	Karan Mourya
30	21ESKEE033	Kartikey Nehra
31	21ESKEE034	Keshav Gautam
32	21ESKEE035	Khushi Nayak
33	21ESKEE037	Krati Choudhary
34	21ESKEE039	Mohammed Fardeen
35	21ESKEE040	Mohit Jarwal
36	21ESKEE041	Naveen Ghosliya
37	21ESKEE042	Navin Suthar
38	21ESKEE043	Neeraj Godwal
39	21ESKEE044	Nishchay Parashar
40	21ESKEE045	Palak

41	21ESKEE047	Parag Saini
42	21ESKEE048	Pradeep Badgoti
43	21ESKEE049	Pradeep Singh Rajawat
44	21ESKEE050	Pranshul Singh
45	21ESKEE051	Preeti Gupta
46	21ESKEE052	Priyanshu Sharma
47	21ESKEE053	Radheshyam Sharma
48	21ESKEE055	Rahul Gangwal
49	21ESKEE057	Rahul Singh Panwar
50	21ESKEE059	Rakesh Swami
51	21ESKEE060	Rashi Chouhan
52	21ESKEE061	Ravi Kumar Meena
53	21ESKEE063	Ronak Kumar
54	21ESKEE064	Sachin Meena
55	21ESKEE065	Sagar Kumar Gurjar
56	21ESKEE066	Sakshya Mawaliya
57	21ESKEE067	Saloni
58	21ESKEE068	Sarthak Verma
59	21ESKEE069	Saurabh Kumar Pushp
60	21ESKEE070	Shankar Yogi
61	21ESKEE071	Shivam Gupta
62	21ESKEE072	Shivam Tiwari
63	21ESKEE073	Shreyansh Meena
64	21ESKEE074	Shreyash Sharma
65	21ESKEE075	Sumit Sarsar
66	21ESKEE076	Tanu Meena
67	21ESKEE078	Vipendra Singh
68	21ESKEE079	Virendra Singh Rathore
69	21ESKEE080	Vivek Singh
70	21ESKEE081	Yash Agarwal
71	21ESKEE082	Yash Mina
72		Arpit Sharma

10. Glimpses of the Workshop: -
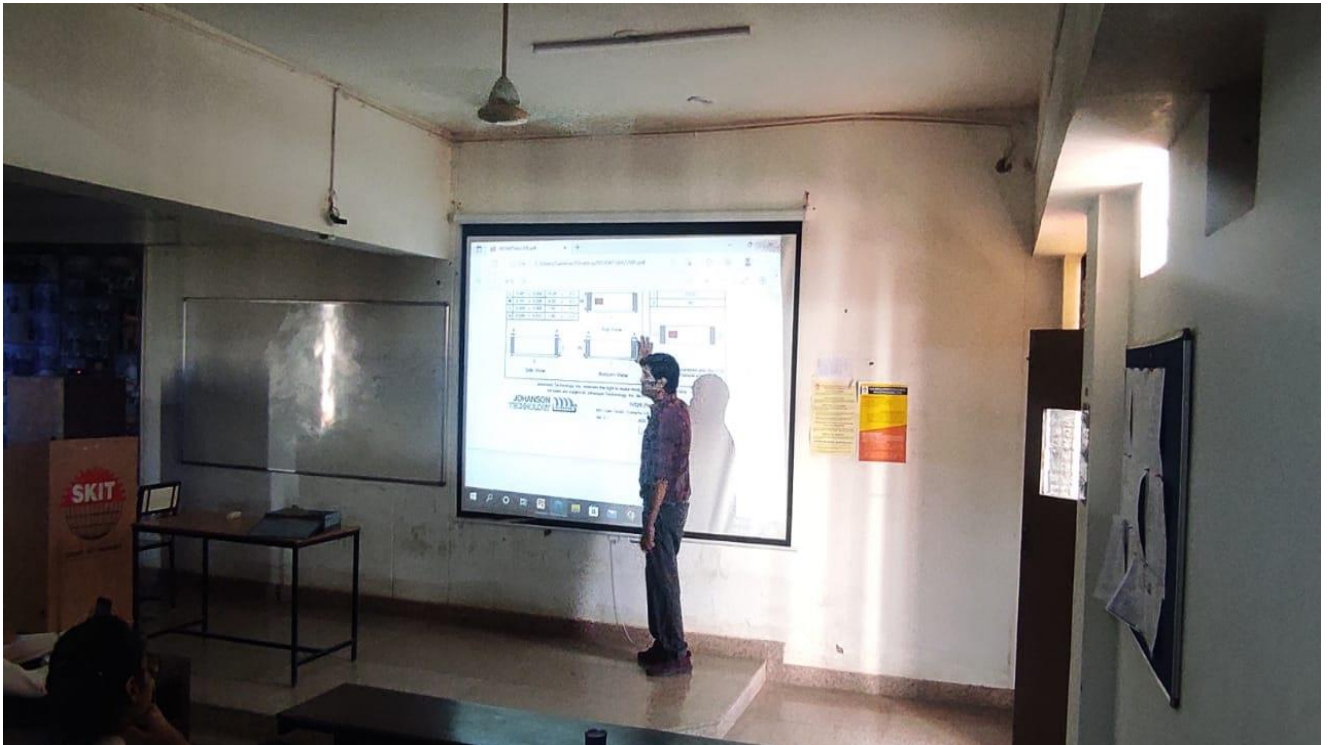
11. Feedback of The Workshop: -

S.No.	Name	Rate the Knowledge shared in the session	How was the content of the session?	How interesting topic chosen by the speaker?
1	Radheshyam Sharma	9	9	8
2	Parag Saini	10	10	10
3	Nishchay Parashar	4	4	7
4	Khwaish Gupta	9	9	9
5	Divya Jain	9	9	10
6	Aman Maru	10	10	10
7	Shreyansh Meena	7	5	7
8	Preeti Gupta	10	9	8
9	Aman Jangid	10	10	10
10	Palak	9	8	9
11	Yash Agarwal	8	8	8
12	Shreyash Sharma	10	10	10
13	Neeraj Godwal	9	9	9
14	Kanika Gupta	9	9	9
15	Harish	9	8	9
16	Sumit Sarsar	10	10	10
17	Shankar Yogi	9	7	4
18	Rashi Chouhan	8	8	8
19	Arman Mathew	6	6	6
20	Kartikey Nehra	8	8	8
21	Shivam Gupta	4	4	4
22	Kanishk Saini	7	6	7
23	Pankaj Kumar Samota	10	10	9
24	Saloni	6	5	6
25	Naveen Ghosliya	10	10	10
26	Virendra Singh Rathore	9	9	8
27	Bhavya Singh	9	9	9
28	Vivek Singh	8	8	8
29	Himanshu Yadav	10	10	10
30	Devesh Nagar	10	10	10
31	Kailash Pooniya	10	10	10
32	Rahul Gangwal	9	9	9
33	Mohit Jarwal	8	9	9
34	Saurabh Kumar Pushp	6	7	5
35	Abhinav Srivastava	9	9	9
36	Vipendra Singh	10	10	10
37	Navin Suthar	10	9	9
38	Navin Suthar	10	9	9
39	Rahul Singh Panwar	9	9	9
40	Deependra Singh Ranawat	8	6	8

41	Ankita Jangir	9	8	10
42	Ayush Gaur	10	10	10
43	Ashish Mahawar	8	10	9
44	Ashish Mahawar	8	8	8
45	Anuj Kanchal	9	8	8
46	Sarthak Verma	8	8	8
47	Hardik Verma	5	5	6
48	Mohammed Fardeen	8	8	8
49	Priyanshu Sharma	9	9	9
50	Shivam Tiwari	10	10	10
51	Karan Mourya	9	9	8
52	Kalpit Mathur	9	9	9
53	Yash Mina	9	9	9
54	Rakesh Swami	9	8	10
55	Krati Choudhary	10	10	10
56	Tanu Meena	9	9	9
57	Devesh Sharma	9	8	8
58	Pradeep Singh Rajawat	10	10	10
59	Himanshu Choudhary	9	9	8
60	Badal Saini	9	9	9
61	Ravi Kumar Meena	10	10	10
62	Ronak Kumar	8	9	8

12. Sample Copy of Participants Certificate: -

Department Of Electrical Engineering
Swami Keshvanand Institute Of Technology,
Management & Gramothan, Jaipur

The Institution Of Engineers (India)

Industrial Competent Enhancement Program

13-15 OCTOBER, 2022

Certificate of Participation

This is to certify that .... *Name* ....
has attended three days workshop on **"Industrial Competent Enhancement Program"** held from October 13-15, 2022 at Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur.

Dr. Ramesh Kr. Pachar
Principal
SKIT, JAIPUR

Dr. Sarfaraz Nawaz
Head of EE Dept.
SKIT, JAIPUR

Mr. Vikas Mahala
Deputy Head of
EE Dept.,SKIT

Mr. Tarun Naruka
Associate Professor,
EE Dept., SKIT

Mr. Akash Deo
Assistant Professor,
EE Dept.,SKIT

Mr. Deepak Saini
Assistant Professor,
EE Dept.,SKIT

13. List of Participants who received Certificates: -

S.No.	Roll No.	Name
1	21ESKEE001	Abhay Verma
2	21ESKEE002	Abhinav Srivastava
3	21ESKEE004	Aman Jangid
4	21ESKEE005	Aman Maru
5	21ESKEE006	Ankita Jangir
6	21ESKEE007	Anuj Kanchal
7	21ESKEE008	Arman Mathew
8	21ESKEE009	Ashish Mahawar
9	21ESKEE010	Ayush Gaur
10	21ESKEE011	Badal Saini
11	21ESKEE012	Bhavya Singh
12	21ESKEE013	Chirag Parihar
13	21ESKEE014	Deependra Singh Ranawat
14	21ESKEE015	Devesh Nagar
15	21ESKEE016	Devesh Sharma
16	21ESKEE017	Dipesh Jalwania
17	21ESKEE018	Divya Jain
18	21ESKEE020	Hardik Verma
19	21ESKEE021	Harish
20	21ESKEE022	Harshit Sharma
21	21ESKEE023	Himanshu Choudhary
22	21ESKEE024	Himanshu Yadav
23	21ESKEE026	Kailash Pooniya
24	21ESKEE027	Kalpit Mathur
25	21ESKEE028	Kanika Gupta
26	21ESKEE029	Kanishk Khandal
27	21ESKEE030	Kanishk Saini
28	21ESKEE031	Kannu Sharma
29	21ESKEE032	Karan Mourya
30	21ESKEE033	Kartikey Nehra
31	21ESKEE034	Keshav Gautam
32	21ESKEE035	Khushi Nayak
33	21ESKEE037	Krati Choudhary
34	21ESKEE039	Mohammed Fardeen
35	21ESKEE040	Mohit Jarwal
36	21ESKEE041	Naveen Ghosliya
37	21ESKEE042	Navin Suthar
38	21ESKEE043	Neeraj Godwal
39	21ESKEE044	Nishchay Parashar
40	21ESKEE045	Palak

41	21ESKEE047	Parag Saini
42	21ESKEE048	Pradeep Badgoti
43	21ESKEE049	Pradeep Singh Rajawat
44	21ESKEE050	Pranshul Singh
45	21ESKEE051	Preeti Gupta
46	21ESKEE052	Priyanshu Sharma
47	21ESKEE053	Radheshyam Sharma
48	21ESKEE055	Rahul Gangwal
49	21ESKEE057	Rahul Singh Panwar
50	21ESKEE059	Rakesh Swami
51	21ESKEE060	Rashi Chouhan
52	21ESKEE061	Ravi Kumar Meena
53	21ESKEE063	Ronak Kumar
54	21ESKEE064	Sachin Meena
55	21ESKEE065	Sagar Kumar Gurjar
56	21ESKEE066	Sakshya Mawaliya
57	21ESKEE067	Saloni
58	21ESKEE068	Sarthak Verma
59	21ESKEE069	Saurabh Kumar Pushp
60	21ESKEE070	Shankar Yogi
61	21ESKEE071	Shivam Gupta
62	21ESKEE072	Shivam Tiwari
63	21ESKEE073	Shreyansh Meena
64	21ESKEE074	Shreyash Sharma
65	21ESKEE075	Sumit Sarsar
66	21ESKEE076	Tanu Meena
67	21ESKEE078	Vipendra Singh
68	21ESKEE079	Virendra Singh Rathore
69	21ESKEE080	Vivek Singh
70	21ESKEE081	Yash Agarwal
71	21ESKEE082	Yash Mina
72		Arpit Sharma

14. Day Wise Report: -

Day-1 Sesssion-1

Date: - 13-10-2022

It was the first session of the first day of the workshop on 'Industrial Competent Enhancement Program' organized by IEI Student Chapter of Electrical Engineering Department of Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur (SKIT). The Guest Speaker of the session was Mr. Kailash Soni (Associate Professor, CS Dept., SKIT). The session was commenced at 08:30 A.M. with a welcome note to the speaker by the student host.

Mr. Kailash Soni Sir first threw light on basic C. He talked about the difference between Procedural Oriented Programming and Object-Oriented Programming. He discussed the history of C++ oriented programming language. In 1980, Bjarne Stroustrup added two languages 'C' and 'Simula67' and defined new Language named it as 'C WITH CLASSES'. Later, in 1983 it was renamed it and defined C++. He gave a brief overview of C++ language. He also elucidated the features of OOPs language. He talked about Object-oriented programming (OOP) which is a style of programming characterized by the identification of classes of objectsclosely linked with the methods (functions) with which they are associated. He also discussed the features of OOPs language. He briefly explained OOPs language featureslike class, attribute, operation, data hiding, data abstraction and polymorphism. Lastly,He also briefed about types of inheritance i.e., single level inheritance, multi-level inheritance, multiple inheritance, hierarchical inheritance Concepts and hybrid inheritance.

At last, Dr. Sarfaraz Nawaz (HOD EE Dept., SKIT) presented a vote of thanks and momento to the guest speaker. In this way, the session lasted for one hour and ended at 10:00 A.M.

Day-1 Sesssion-2

Date: - 13-10-2022

It was the second session of the second day of the workshop on 'Industrial Competent Enhancement Program' organised by IEI Student Chapter of Electrical Engineering Department of Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur (SKIT). The speaker of the session was Mr. Tarun Naruka (Associate Professor, EE Dept., SKIT). The session commenced at 10:00 A.M. with a heartful welcome note from the student host.

Mr. Tarun Naruka first threw light on the importance of MATLAB (Matrix Laboratory) and covered some points, as it provides a huge number of toolboxes to plot the graphs, mathematical computation, algorithm development, data acquisition, modelling simulation and data analysis and visualisation. Then, he introduced the basics of MATLAB to the students. After that he emphasised on Simulink, as it is a platform for simulation and model-based design for dynamic structures and it provides an interactive graphical environment and a customised set of block libraries, and can be extended for specialised applications. He also articulated the matrix in MATLAB, as how a matrix is written in a command window of MATLAB, he performed some operations on a matrix in MATLAB some are

addition, subtraction, multiplication, division, etc. and some special operators Colon(:) used for indexing, vector creation, Semicolon(;) used for ending a row, and it suppresses output of code line, Exclamation point(!) used as an operating system command, Question mark(?) used as meta class of MATLAB class, Single Quotes(' ') used as character array constructed. After that, he enunciated Arrays in MATLAB as it is the most fundamental datatype in MATLAB and arrays are a collection of several values of the same data type. Afterwards, the students interacted with the speaker through the questionnaire session and the speaker resolved all the doubts of the students.

At last, Dr. Sarfaraz Nawaz (HOD EE Dept., SKIT) presented a vote of thanks and memento to the guest speaker. In this way, the session lasted for one hour and ended at 11:00 A.M.

Day-1 Sesssion-3

Date: - 13-10-2022

It was the third session of the first day of the workshop on 'Industrial Competent Enhancement Program' organized by IEI Student Chapter of Electrical Engineering Department of Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur (SKIT). The Guest Speaker of the session was Mr. Dinesh Kumar (Assistant Professor, ECE Dept., SKIT). The session was commenced at 12:30 P.M. with a welcome note to the speaker by the student host.

Mr. Dinesh Kumar talked about the projects and work he had done during pandemic for the betterment of society. He motivated students for practical learning and students must make projects with their studies. He explained red node that provides calibration of meter. The students can also easily design any meter with the help of red note technology. He also elucidated that red node color combination in red node provide more efficient triggering. Later, he briefly explained servo motor and stepper motors. Servo Motor are electronic devices and rotary or linear actuators that rotate and push parts of a machine with precision. Servos are mainly used on angular or linear position. He also discussed stepper motor which is a brushless DC electric motor that divides a full rotation into number of equal parts. Later, He talked about lithium-ion battery is a type of rechargeable battery which uses the reversible reduction of lithium ions to store energy. It is the predominant battery type used in portable consumer electronics and electric vehicles. He also briefed about battery management system (BMS) is technology dedicated to the oversight of a battery pack, which is an assembly of battery cells, electrically organized in a row column matrix configuration to enable delivery of targeted range of voltage and current for a duration of time against expected load scenarios. He discussed about an infrared sensor is an electronic device, that emits in order to sense some aspects of the surroundings and can also measure the heat of an object as well as detects the motion. Lastly, he talked about current sensor which is a device that detects and converts current to an easily measurable output voltage, which is proportional to the current through the measured path. He made the students aware about the importance of making projects with your studies.

At last, Mr. Vikas Mahala (Dy. HOD EE Dept., SKIT) presented a vote of thanks and memento to the guest speaker. In this way, the session lasted for one hour and ended at 1:30 P.M.

Day-2 Sesssion-1

Date: - 14-10-2022

It was the first session of the second day of the workshop on 'Industrial Competent Enhancement Program' organised by IEI Student Chapter of Electrical Engineering Department of Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur (SKIT). The Guest Speaker of the session was Dr. Tanuj Rawat (Assitant Professor, EE Dept., SKIT). The session was commenced at 8:30 A.M. with a welcome note to the speaker by the student host.

Dr. Tanuj Rawat briefed the students about the PV SYSTEM SOFTWARE and how this software is benefitted for engineers. He defined this software by taking the example of renewable sources and taught about the Remote Solar Microgrid, hybrid distributed power system that uses a combination of solar and diesel battery technology. Further, he talked about its features and key players in India, and how this software helps us to know what are the proper parameters (radiation, shading analysis and selection of panel, etc.) of solar panels for our location. He explained the importance of this software in the field of solar industries. He took an example of 5 KW system, then PV SYST gave all the parameters like losses, energy graph, direction of plates and range of invertor, etc.

At last, Dr. Sarfaraz Nawaz (HOD EE Dept., SKIT) presented a vote of thanks for his valuable contribution to make this workshop successful. In this way, the session ended at 10:00 A.M.

Day-2 Sesssion-2

Date: - 14-10-2022

It was the second session of the second day of the workshop on 'Industrial Competent Enhancement Program' organized by IEI Student Chapter of Electrical Engineering Department of Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur (SKIT). The Guest Speaker of the session was Mr. Akash Deo (Assistant Professor, EE Dept., SKIT). The session commenced at 10:00 A.M. with a welcome note to the speaker by the student host.

Dr. Akash Deo started with the objective of the session and told the students that the PCB design is a part of Power Electronics. Then, he elaborated the students about the specification of PCB, some basic components, the material used in the fabrication of the PCB, and use of PCB in various appliances. He explained the definition of PCB, its characteristics, its specifications, structure, rules to design a PCB which is operational, and some important elements in the design of PCB. He also focused on the quality of wires used in the design of PCB and the works done over the PCB to make it operational. He enunciated the students about the difficulties in designing PCB of single and multi-layer, pin diagram and dimensions of PCB, and about the data required for the design of PCB. He briefed the students about the hole mounting & surface mounting device with design and example. He described the students about the schematic design, patterns of the device, about the routing between the elements, and rules of designing a circuit.

Then, he explained the students about the software used to design PCB efficiently i.e., easyeda and alltium designer and get the design printed over the PCB for the fabrication of circuit and the software used by different companies. He also made the students aware about the companies which design PCB, the costing of fabrication and the companies which require PCB designers. At last, the speaker resolves the queries of the students.

At last, Dr. Sarfaraz Nawaz (HOD EE Dept., SKIT) presented a vote of thanks and memento to the guest speaker. In this way, the session lasted for one hour and ended at 11:00 A.M.

Day-2 Sesssion-3

Date: - 14-10-2022

It was the third session of the second day of the workshop on 'Industrial Competent Enhancement Program' organised by IEI Student Chapter of Electrical Engineering Department of Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur (SKIT). The Guest Speaker of the session was Dr. Anupriya Singh (Associate Professor, English Dept., SKIT). The session was commenced at 12:30 P.M. with a welcome note to the speaker by the student host.

Dr. Anupriya Singh talked about the importance of the communication skills in the outer world. She emphasised on the aspects of communication i.e., Listening, Speaking, Reading, and Writing and what communication possesses and requires. She talked about the difficulties faced by the human in communication, the causes which makes speaking difficult and the problems in understanding. She enunciated about the difficulties faced in speaking with the help of presentation and told the students to read magazines and English newspaper to improve the communication skills. Then, she talked about how the pronunciation of words affects the meaning of the sentence. She briefed about some content words which are informal by increases the fluency in speaking. She described about some speaking features like fluency, pace of speaking, pitch, rate of delivery, volume, pronunciation, articulation, and the manner of approach over the point which is important. Then, she talked about phonetics (pronunciation of words) and how the stressing over different letters in a word changes its meaning and kind of word. She also made the students practised of some of the words which the students enjoyed and learn a lot about the communication skills.

At last, Dr. Sarfaraz Nawaz (HOD EE Dept., SKIT) presented a vote of thanks and memento to the guest speaker. In this way, the session lasted for one hour and ended at 1:30 P.M.

Day-3 Sesssion-1

Date: - 15-10-2022

It was the first session of the third day of the workshop on 'Industrial Competent Enhancement Program' organized by IEI Student Chapter of Electrical Engineering Department of Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur (SKIT). The Guest Speaker

of the session was Dr. M.P Sharma (RRVPNL, Jaipur). The session was commenced at 08:30 A.M. with a welcome note to the speaker by the student host.

Dr. M.P Sharma first threw light on transmission losses in Rajasthan power systemstructure. He explained about power i.e., active power and reactive power. He talked about the transmission losses in transmission network that depends upon load on network, load curve, reactive power management operation and function, network design and system operating condition. He explained basic concept of power flow withthe help of power triangle. He spoke about that in transmission system shunt reactors and shunt capacitors, both are installed so that as per requirement voltage can be controlled. Later, he moved his focus towards the effect of line power factor on transmission losses. He also explained effect of reactive flow in typical 132/33 KV substation. He elucidated load flow study without and with shunt capacitor bank. He discussed the impact on apparent power flow, current flow, power factor, network voltage, transmission loss, and energy saving.

At last, Dr. Sarfaraz Nawaz (HOD EE Dept., SKIT) presented a vote of thanks andmemento to the guest speaker. In this way, the session lasted for one hour and ended at10:30 A.M.

Day-3 Sesssion-2

Date: - 15-10-2022

It was the second session of the third day of the workshop on 'Industrial Competent Enhancement Program' organized by IEI Student Chapter of Electrical Engineering Department of Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur (SKIT). The Guest Speaker of the session was Mr. Kartavya Jain (Co- Founder Seldom India). The session was commenced at 10:00 A.M. with a welcome note to the speaker by the student host.

Mr. Kartavya Jain talked about the importance of algorithms. He talked about algorithms which are a step-by-step procedure, which defines a set of instructions to be executed in a certain order to get the desired output. Algorithms are generally created independent of underlying languages, i.e., an algorithm can be implemented in more than one programming language. He briefed about Python which is a computer programming language often used to build websites and software, automate tasks, and conduct data analysis. Python is a general-purpose language, meaning it can be used to create a variety of different programs and is not specialized for any specific problems. Then, he told students to open Python Compiler. He explained basic python programming. He explained algorithms. He gave students tasks to find out the values of variables in arithmetic operations. He also taught basic arithmetic operations in python programming to students. He gave students brief overview of the basics of python programming. Later, with the help of examples he told them to perform the tasks.

At last, Dr. Sarfaraz Nawaz (HOD EE Dept., SKIT) presented a vote of thanks andmemento to the guest speaker. In this way, the session lasted for one hour and ended at11:30 A.M.

Day-3 Sesssion-3

Date: - 15-10-2022

It was the third session of the third day of the workshop on 'Industrial Competent Enhancement Program' organised by IEI Student Chapter of Electrical Engineering Department of Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur (SKIT). The Guest Speaker of the session was Mr. Ajay Soni (Senior Developer, Seldom India). The session was commenced at 12:30 P.M. with a welcome note to the speaker by the student host.

Mr. Ajay Soni firstly briefed about android which is a open source operating system. Then, he briefed about kernel in android which provides basic services for all other parts of the OS. Kernel also performs memory management. The android kernel is based on a upstream Linux Long Term Supported Kernel. Further, he discussed about the history of android and the importance of android in today's world. HTC is the first commercial company to launch android. He told students that for android development java is required. Later, He explained UI in android which is a graphical representation of views displayed on a smartphone or tablet. It allows users to interact with the features, functions and contents of application. He also briefed about SQL database in which managing of data is held in a relational database management system. In SQL database a lot of operations can be performed.

At last, Dr. Sarfaraz Nawaz (HOD EE Dept., SKIT) presented a vote of thanks and memento to the guest speaker. In this way, the session lasted for one hour and ended at 1:30 P.M.

15. Words of Acknowledgement: -

I believe that guidance, support and blessings are the incomparable qualities that my gratitude to our Chairman, **Shri Surja Ram Meel**, Director, **Shri Jaipal Meel** and Registrar, **Smt. Rachna Meel** for providing unconditional freedom and financial support to execute this student's workshop.

I would like to extend a special thanks to **Dr. M.P. Sharma** (RRVPNL) for educating the students on Rajasthan Power System Structure.

I also thanks to Industry experts, who educated our participants in this 3-days' workshop.

I would also like to thank **Dr. S.L. Surana, Director** (Academics) and **Prof. (Dr.) Ramesh Kumar Pachar**, Principal (SKIT) to allow me to execute this workshop in the college campus and your guidance.

I would also thank to **Dr. Sarfarz Nawaz** ji, Head of Electrical Engineering Department, SKIT for consisting contribution in this workshop.

I would also like to thank all the technical and non-technical staff members for providing their valuable time for the successful execution of this workshop.

I would also thank to all our participants and students for their participation in this workshop and my best wishes to all the students for their bright future and life.

Thank You