



**INDIAN SOCIETY TECHNICAL EDUCATION (ISTE)**  
**KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE**  
(An Autonomous Institute under Kakatiya University, Warangal)  
WARANGAL-506015, TELANGANA, INDIA



**A Report on**  
**ISTE KITSW CHAPTER**  
**for the Academic Year 2019-20**

Around 554 students are motivated to take ISTE student membership during the academic year 2019-20.

The following are the events organized :

Sl.No	Event	Date of Event
1	<b>SUMSHODHINI'19</b> (A National Level Students Technical Symposium) Organized by SAC in association with ISTE KITSW Chapter	24 <sup>th</sup> - 26 <sup>th</sup> October, 2019
2	One week online Faculty Development Programme on <b>Micro Grid, Electric Vehicles and Allied Areas - 2020 (MGEVAA-2020)</b> , Organized by Department of Electrical & Electronics Engineering in association with ISTE KITSW Chapter	1 <sup>st</sup> - 5 <sup>th</sup> June, 2020

**Dr.S.Sunil Pratap Reddy**  
Faculty in-charge, ISTE, KITSW

**Prof.K.V.Raghu Babu**  
Chairman, ISTE, KITSW



KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE: WARANGAL

INDIAN SOCIETY OF TECHNICAL EDUCATION (ISTE)



KITSW STUDENT CHAPTER


Date: 22/08/2019

**NOTICE**

**Inviting applications for ISTE KITSW student body 2019-20**

All the interested ISTE student members of B.Tech IV/IV,III/IV,II/IV are hereby informed to submit their application forms for the following positions of Indian Society of Technical Education(ISTE), KITSW Student Chapter on or before **28/08/2019** to faculty incharge,ISTE **Dr.S.Sunil Prathap Reddy(Block-I, Room no:- 116)**. Application can be sent through online go to <https://forms.gle/FX1PaZAZmSEQZEK36> (or) forms are available in the college Xerox centre (or) can be downloaded from college website.

S.No	Position	Eligibility
1	President	IV/IV B.Tech
2	Vice President(8)	IV/IV B.Tech one from each department and one from MBA
3	General Secretary(2)	IV/IV B.Tech(B) IV/IV B.Tech(G)
4	Joint Secretary(7)	III/IV B.Tech one from each department
5	Additional Joint Secretary(2)	II/IV B.Tech(B) II/IV B.Tech(G)
6	Treasurer(2)	IV/IV B.Tech III/IV B.Tech
7	Executive Members	IV/IV,III/IV,II/IV B.Tech two from each section


  
Dr.S.Sunil Prathap Reddy

Faculty Incharge,ISTE(KITSW)

Copy to:1.Principal

2.Deans

3.HODS

  
Dr.K.V.Raghu Babu

Chairman,ISTE(KITSW)



KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE: WARANGAL  
(An Autonomous Institute under Kakatiya University, Warangal)

**INDIAN SOCIETY FOR TECHNICAL EDUCATION(ISTE)**  
**KITSW STUDENT CHAPTER**



*ISTE KITS Warangal Student Chapter Body for the  
Academic Year(2019-20)*

POSITION	NAME OF THE CANDIDATE	ROLL NO	BRANCH	YEAR	CONTACT NUMBER
PRESIDENT	Puli Narasimha Reddy	B16CE002	CE	IV B.Tech	9393991919
VICE-PRESIDENT	M. Sai Chand	B16CE093	CE	IV B.Tech	8966915227
	N. Karthik	B16ME007	ME	IV B.Tech	9949983575
	B. Sai Prathap Reddy	B16EI024	E&I	IV B.Tech	8555846138
	M. Vivek Vardhan Reddy	B16EC110	ECE	IV B.Tech	8686864001
	B. Nuthana	B16EE057	EEE	IV B.Tech	7036433464
	P. Sai Rishitha	B16CS027	CSE	IV B.Tech	7337379490
	N. Vishwasena Raidu	B16IT010	IT	IV B.Tech	9063327817
GENERAL-SECRETARY	M. Revanth Reddy	M18MB059	MBA	II MBA	7013954645
	P. Gopichander	B16ME008	ME	IV B.Tech	7794947646
	T. Tejaswini	B16EC080	ECE	IV B.Tech	8374830477
JOINT-SECRETARY	K.. Ashish	B16CS050	CSE	IV B.Tech	8341805415
	V. Aadhuswar	B17CE046	CE	III B.Tech	8801732346
	K.. Sai Charan	B17ME133	ME	III B.Tech	9133969676
	M. Vishnu	B17EI001	E&I	III B.Tech	8639817230
	K. Praneesh Reddy	B17EC001	ECE	III B.Tech	8985410501
	D. Harika	B17EE034	EEE	III B.Tech	8309592724
	S. Anjali Raj	B17CS103	CSE	III B.Tech	7674899248
ADDL.JOINT-SECRETARY	K. Kavya Sri	B17IT035	IT	III B.Tech	9182392720
	K. Bhavya Sri	B18EI002	E&I	II B.Tech	9182498520
	L. Sai Vishal Varma	B18EC049	CE	II B.Tech	6305510928
TREASURER	Neha Naaz	B18IT008	IT	II B.Tech	9177123266
	N.Roshith	B16EC141	ECE	IV B.Tech	8686274929
	M. Kaushik	B17CE036	CE	III B.Tech	7330001786
Executive Members	K. Akhil Raja	B17ME061	ME	III B.Tech	9701683021
	Md. Sharjeel Afridi	B17CE059	CE	III B.Tech	7981684835
	Md. Assad	B17ME065	ME	III B.Tech	8074648102
	V. Sathvik Reddy	B17EI035	E&I	III B.Tech	9640660064
	G. Tulasi Krishna	B18EC012	ECE	II B.Tech	9390443322
	D. Sravan Kumar	B17EE009	EEE	III B.Tech	8919620689
	P. Manasa	B17CS092	CSE	III B.Tech	9381940805
K. Sneetha	B18IT004	IT	II B.Tech	9502939223	

Date: 20.11.2019

To,

**The Executive Secretary**  
Indian Society for Technical Education  
Shaheed Jeet Singh Marg  
Near Katwaria Sarai  
Opp: Sanskrit Vidyapeeth  
New Delhi-110 016.

Dear Sir,

Sub: New Enrollment of ISTE student members, Membership Fee and applications submitted-  
reg.

ISTE KITS CHAPTER (AP 033) & ISTE KITS Students Chapter (AP 016), Warangal are actively engaged in conducting various activities at KITS Warangal, TELANGANA. As a part of their activities, **554** students have submitted their applications for enrollment of membership. The details are given below:

Year	Membership Fee (Basic + Admission fee + GST = Total Fee)	Membership fee transferred to ISTE (Basic X 0.50 + Admission fee+ GST)	No. of Students Enrolled for membership	Amount transferred to ISTE, Delhi(Rs.) as per norms (Rs.)
I Year of 4 Year B.Tech	200+50 +45= 295	100+50+45=195	453	453X195 =88,335.00
II Year of 4 Year B.Tech	150+50 +36= 236	75+50+36=161	77	77X161=12,397.00
III Year of 4 Year B.Tech	100+50 +27= 177	50+50+27=127	16	16x127=2,032.00
MBA	100+50 +27= 177	50+50+27=127	08	8x127=1,016.00
			<b>Total Students = 554</b>	<b>Total Amount = 1,03,780.00</b>

In this regard, a DD of Rs. **1,03,780/-** (Rupees one lakh three thousand seven hundred and eighty only), Dated: **20.11.2019**, **DD No. 485711** in favor of ISTE, New Delhi is enclosed. The list of students who enrolled for membership and their filled- in applications are enclosed. I would request you to admit these students as members of ISTE and do the needful. The membership Certificates may kindly be sent to the undersigned at the earliest possible.

Thanking you,

Yours sincerely,

**Dr.K. Ashoka Reddy**  
Principal

भारतीय स्टेट बैंक  
जारी  
State Bank of India  
Issuing Branch: Uttarakhand (KITS)  
कोड क्र. / CODE No: 21372  
Tel No. 0870-2564301

मांगद्राफ्ट  
DEMAND DRAFT

Key: WUDGIP  
Sr. No: 434170

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D D M M Y Y Y Y

मांगे जानेपर ISTE NEW DELHI \*\*\*\*\*

या उनके आदेश पर

ON DEMAND PAY

One Lakh Three Thousand Seven Hundred and Eighty Only

OR ORDER

अदा करें ₹ 103780.00

IOI 000482485711 Key: WUDGIP Sr. No: 434170 AMOUNT BELOW 103781(1/6)  
Name of Applicant ISTE STUDENTS CHAPTER KIT ISTE STUDENTS CHAPTER KIT

मूल्य प्राप्त / VALUE RECEIVED

4  
3  
2  
1

कम्प्यूटर द्वारा मुद्रित होने पर ही वैध  
VALID ONLY IF COMPUTER PRINTED

केवल 3 महीने के लिए वैध  
VALID FOR 3 MONTHS ONLY

भारतीय स्टेट बैंक  
STATE BANK OF INDIA  
अधिकृत शाखा / DRAWEE BRANCH: BADARPUR (NEW DELHI)  
कोड क्र. / CODE No: 02296

अधिकृत हस्ताक्षरकर्ता  
AUTHORISED SIGNATORY  
\* 1,50,000/- एवं अधिक के लिखात दो अधिकारियों द्वारा हस्ताक्षरित होने पर ही वैध है।  
INSTRUMENTS FOR ₹ 1,50,000- & ABOVE ARE NOT VALID UNLESS SIGNED BY TWO OFFICERS

AK BISWAL  
BRANCH MANAGER  
SS-11240

॥ 485711 ॥ 0000020001: 0004821 ॥ 15



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**WARANGAL-506015, TELANGANA, INDIA**



**The following students registered for ISTE Students Membership for the  
Academic Year 2019-20**

**B.Tech. I-Year**

<b>S.No</b>	<b>Roll No.</b>	<b>Name of the Student</b>	<b>Branch</b>	<b>Reg. Fee (Rs.)</b>
1	B19CE001	NELLURI ROHITH	CE	195
2	B19CE003	PINGALI THARUNI SAI SRI	CE	195
3	B19CE006	GARLAPATI SOMNATH REDDY	CE	195
4	B19CE009	SIRIMILLA ALEKHYA	CE	195
5	B19CE010	JADI DIVYARANI	CE	195
6	B19CE011	P ANANYA	CE	195
7	B19CE012	JEEVIT GUGULOTH	CE	195
8	B19CE021	MALOTH HARSHITHA	CE	195
9	B19CE022	KAITHA VENKATESH	CE	195
10	B19CE023	YENUGULA RASHMITHA	CE	195
11	B19CE025	AAVULA HARISH	CE	195
12	B19CE026	ENDLA UTKARSH CHARAN	CE	195
13	B19CE027	BAIRY MEDHASVEE	CE	195
14	B19CE033	GOVINDAM SHREYA	CE	195
15	B19CE035	RAMAGIRI DEVIPRIYA	CE	195
16	B19CE036	CHEEKATI SWASTHIK	CE	195
17	B19CE038	KUSUMA TEJA	CE	195
18	B19CE042	DARA DEEPIKA	CE	195
19	B19CE043	BANOTH RAM CHARAN NAIK	CE	195
20	B19CE049	MAKULA SRILEKHA	CE	195
21	B19CE052	DINDIGALA ROHITH	CE	195
22	B19CE053	KONDABATHULA SAI TEJA	CE	195

23	B19CE055	DASAROJU AKHILA	CE	195
24	B19CE056	D. JAHNAVI	CE	195
25	B19CE058	KANDIKONDA VEDHA VARSHINI	CE	195
26	B19CE061	T. JAGADISH	CE	195
27	B19CE062	KOTA SRIVIDYA REDDY	CE	195
28	B19CE064	JAMALPURI CHAKRADHAR	CE	195
29	B19CE067	THANUGUNDLA SINDHU	CE	195
30	B19CE068	MUDDU ARUN SAI	CE	195
31	B19CE071	TAYYABA SIDDIQUA	CE	195
32	B19CE072	KODIMELA SIVA GURU MURTHY	CE	195
33	B19CE074	GADE SUSHMA	CE	195
34	B19CE076	SRIRAMULA SATHWIKA	CE	195
35	B19CE080	SAMUDRALA BHAVYA SREE	CE	195
36	B19CE082	BHUPATHI SUHAS REDDY	CE	195
37	B19CE083	MOURYA SRAVANTHI	CE	195
38	B19CE084	MALOTH KALYANI	CE	195
39	B19CE085	AVULA SANDEEP	CE	195
40	B19CE086	THEERTHALA JYOTHIKA	CE	195
41	B19CE089	VELUKUCHI HARI KEERTHANA	CE	195
42	B19CE091	BANDARU SINDHUJA	CE	195
43	B19CE093	DUBBA SRAVYA	CE	195
44	B19CE103	THAKKALLAPALLY SACHIN RAO	CE	195
45	B19CE111	NULIGONDA DHEERAJ	CE	195
46	B19CE112	UPPUNUTHULA GOVARDHANA CHARY	CE	195
47	B19CE114	NARRA SAI VISHAL REDDY	CE	195
48	B19CE116	PATKARI VARUN	CE	195
49	B19ME002	MD YOUNUS HUSSAIN ANSARI	ME	195
50	B19ME003	REBELLY HARSHAVARDHAN	ME	195
51	B19ME004	DHARAVATH VIKAS	ME	195
52	B19ME005	SRIRANGAM BHAVESH	ME	195
53	B19ME007	SHAAD SARWAR MOHAMMED	ME	195

54	B19ME008	SHIVAKOTI RAVI TEJA	ME	195
55	B19ME010	V. SAI KRISHNA TEJA	ME	195
56	B19ME013	MAREPALLY HIMANSHUKA	ME	195
57	B19ME014	ADELA VISHWAS REDDY	ME	195
58	B19ME015	GARDAS ROHITH	ME	195
59	B19ME018	KOTHI SIDDHARTHA	ME	195
60	B19ME022	BURUGUGADDA CHANAKYA	ME	195
61	B19ME025	MOHAMMED NAZEERUDDIN	ME	195
62	B19ME031	BHUKYA SAIKIRAN	ME	195
63	B19ME034	BITLA SIDDHARTHA	ME	195
64	B19ME038	KUNAMALLA YASHWANTH	ME	195
65	B19ME039	BATTHULA NAGAJYOTHA	ME	195
66	B19ME040	JAYANTH KORABOINA	ME	195
67	B19ME046	ANKAM BHANU TEJA	ME	195
68	B19ME047	BALINI DILEEP	ME	195
69	B19ME049	YARA NAVYA	ME	195
70	B19ME055	MODIYAM CHANDU	ME	195
71	B19ME057	T. GANAPATHI SHIVA SAI REDDY	ME	195
72	B19ME059	FAIZA FAREEHA	ME	195
73	B19ME061	KANNAMALA ARUN PRASAD	ME	195
74	B19ME062	JAMMULA SAINATH REDDY	ME	195
75	B19ME064	VIDHI SEERVI	ME	195
76	B19ME065	MOHAMMED ESSAMUDDIN AHMED	ME	195
77	B19ME068	SYED ABDUL HASEEB	ME	195
78	B19ME074	THOTA DINESH	ME	195
79	B19ME075	KUTHURU SAI SHASHANK REDDY	ME	195
80	B19ME078	THALLA RAVI TEJA	ME	195
81	B19ME087	S S D V PRASAD CHAKALI	ME	195
82	B19ME118	CHEERA PREM CHAND	ME	195
83	B19ME122	DUGYALA KARTHIK RAO	ME	195
84	B19ME126	VENNAM RAHUL	ME	195



85	B19ME127	KALVACHERLA RUTHVIK	ME	195
86	B19ME131	BOGI KAVYA SREE	ME	195
87	B19ME138	RANGU SHIVA KUMAR	ME	195
88	B19ME141	KOTE ABHIRAM	ME	195
89	B19ME147	VADDEBOINA SAI KRISHNA	ME	195
90	B19ME151	SUNKARWAR MAHESH	ME	195
91	B19ME154	LONE TEJASRI	ME	195
92	B19ME155	VADDALA NIKETH KUMAR	ME	195
93	B19ME158	PATHAKOTA VAISHNAVI	ME	195
94	B19ME164	NENAVATH AMRUTHA	ME	195
95	B19ME169	GARDAS RAKESH	ME	195
96	B19ME171	MALLETHULA SAI TEJA	ME	195
97	B19ME176	THALLAPPELLY SAI HARINI	ME	195
98	B19ME179	KURUMA SUCHITH	ME	195
99	B19EI005	JAYANA CHINMAI	EI	195
100	B19EI006	YASMEEN	EI	195
101	B19EI007	REPALA SAI RAJ KUMAR	EI	195
102	B19EI009	PYDIPALLI YESWANTH KRISHNA	EI	195
103	B19EI013	DIVYA JOSHI	EI	195
104	B19EI015	VAKA RAM LOHITH	EI	195
105	B19EI017	THOGARU TEJASWINI	EI	195
106	B19EI018	PAMU SAI TEJA	EI	195
107	B19EI020	KANDAKATLA VIJITH	EI	195
108	B19EI021	VISHNU VARDHAN BANDI	EI	195
109	B19EI022	PULLURI NIKHITHA	EI	195
110	B19EI026	KUSUMA SOHAN	EI	195
111	B19EI027	NARAGONI SAI PRIYA	EI	195
112	B19EI028	SABBANI ABHIRAM	EI	195
113	B19EI030	BANDARI PRANITHA	EI	195
114	B19EI032	KOYALKAR CHANDRASEN	EI	195
115	B19EI033	KATUKOJULA RITHIN	EI	195
116	B19EI045	BARRE VISHAL SAHRUDHY	EI	195

117	B19EI056	ETTADI BALA BRAHMAIAH	EI	195
118	B19CS001	SISTA VALLI SISIRA	CSE	195
119	B19CS003	DONTU SASIDHAR	CSE	195
120	B19CS007	ENNI SATYA SAI DINESH	CSE	195
121	B19CS009	NISTALA SAI SURAJ	CSE	195
122	B19CS010	MOHAMMAD ADIL ALI	CSE	195
123	B19CS014	POTHULA ABHIGNA REDDY	CSE	195
124	B19CS017	BANOTH SANDEEP	CSE	195
125	B19CS020	SRIRAMULA SAKETH	CSE	195
126	B19CS022	KATANGURI SRINIDHI	CSE	195
127	B19CS034	GANNAVARAPU JITHENDRA	CSE	195
128	B19CS035	ARSHIYA TANEEM	CSE	195
129	B19CS037	GALLAVALLI BHUVANESHWARI	CSE	195
130	B19CS039	SABAHATH MAHVEEN	CSE	195
131	B19CS040	KALLEPU AISHWARYA RAO	CSE	195
132	B19CS042	KANDHAGATLA RAJKAMAL	CSE	195
133	B19CS044	AKKINEPALLY VISHNUPRIYA	CSE	195
134	B19CS046	BAYYA BHAVANA	CSE	195
135	B19CS048	DEVULAPALLI MRUDUN	CSE	195
136	B19CS049	GADDE RAHUL	CSE	195
137	B19CS050	GUNDA SATHVIK	CSE	195
138	B19CS052	GHANAPURAM SHRAVYA	CSE	195
139	B19CS056	SANGEPU SAI KIRAN	CSE	195
140	B19CS057	KOTHA NIKHIL REDDY	CSE	195
141	B19CS060	THOUTAM SRI YASHASWINI	CSE	195
142	B19CS061	GUJJA SHANTHAN RAO	CSE	195
143	B19CS062	PRATHAPAGIRI HARISH KUMAR	CSE	195
144	B19CS063	KANDUKURI SREEJA	CSE	195
145	B19CS064	CHANDUPATLA JYOTHI	CSE	195
146	B19CS065	RUPIREDDY SAI THARUN REDDY	CSE	195
147	B19CS066	THOUTAM DEEPTHI	CSE	195
148	B19CS068	CHINTHIREDDY ANUROOP	CSE	195

149	B19CS069	NADIMINTI SUHASINI	CSE	195
150	B19CS070	PASUPULETI THARUN	CSE	195
151	B19CS071	SANDELA RINI PRABHASINI	CSE	195
152	B19CS072	YELISHETTY AISHWARYA	CSE	195
153	B19CS073	TEMBURU PARVATESWAR PRASAD	CSE	195
154	B19CS075	MADISHETTI BHARGAVI	CSE	195
155	B19CS077	TEJAVATH VEERAMMA	CSE	195
156	B19CS082	DONTHI JEEVAN REDDY	CSE	195
157	B19CS085	PADIRA SAINATH REDDY	CSE	195
158	B19CS086	KETHIDI SARAYU	CSE	195
159	B19CS087	GANDIKOTA VARMA DEVRAJ	CSE	195
160	B19CS088	LAKAVATH SHIRISHA	CSE	195
161	B19CS089	GANTA SWETHA REDDY	CSE	195
162	B19CS090	GUNJALA KOUSHIK REDDY	CSE	195
163	B19CS091	NALUBOLA SUMANA	CSE	195
164	B19CS092	MACHERLA PRAVALIKA	CSE	195
165	B19CS093	CHEETI HARINI	CSE	195
166	B19CS094	RACHAKATLA SUSHANTH RAJ	CSE	195
167	B19CS095	KARIMILLA THARUN	CSE	195
168	B19CS096	LINGAMPALLY RAHUL	CSE	195
169	B19CS097	JAKKA NEHA REDDY	CSE	195
170	B19CS098	VANGARI SHASHANK	CSE	195
171	B19CS099	GUDIKANDULA NAGA RAJU	CSE	195
172	B19CS100	VELAMURI AISHWARYA	CSE	195
173	B19CS101	PARSHA PAWAN KALYAN	CSE	195
174	B19CS103	SIRIKONDA SANKEERTH	CSE	195
175	B19CS104	RAMARAPU PHANI TEJA	CSE	195
176	B19CS105	ADULAPURAM NAVATEJA	CSE	195
177	B19CS106	PENDLY VISHNUKANTH	CSE	195
178	B19CS107	ASNALA MYTHREYA	CSE	195
179	B19CS109	TOUTAM MEGHANA	CSE	195
180	B19CS110	ANUMANDLA SIRI CHANDANA	CSE	195

181	B19CS111	TALAKOKULA SHRUTHI	CSE	195
182	B19CS112	NOORA VARSHA	CSE	195
183	B19CS113	UGGE ANJALI PRIYA	CSE	195
184	B19CS115	SURAM THARUN	CSE	195
185	B19CS116	MADHIRE SAI CHANDU	CSE	195
186	B19CS120	NAARAM SRICHANDANA	CSE	195
187	B19CS121	PRATHAM JAIN	CSE	195
188	B19CS123	AVADHUTHA VYSHNAV	CSE	195
189	B19CS124	KUNSOTH AKHIL	CSE	195
190	B19CS126	GUNUKULA SATHWIK REDDY	CSE	195
191	B19CS127	PINNINTI AKSHITHA	CSE	195
192	B19CS128	GADE PAVANI	CSE	195
193	B19CS129	MADURI GAYATHRI	CSE	195
194	B19CS130	BHUKYA SWAPNA	CSE	195
195	B19CS131	BHANOOTH SAI KUMAR	CSE	195
196	B19CS132	MUTHYALA RIKITHA SRIMANI	CSE	195
197	B19CS134	GADDAM NIKHITHA	CSE	195
198	B19CS137	KONGARI NAGARAJU	CSE	195
199	B19CS138	PADALA SUMASRI	CSE	195
200	B19CS139	MAMIDI SAHITH REDDY	CSE	195
201	B19CS141	JATLING SREEKAR	CSE	195
202	B19CS142	KALLURI SRINIJA	CSE	195
203	B19CS143	BOCHU SAI PRAKASH	CSE	195
204	B19CS144	ALLOJU SOUMITH	CSE	195
205	B19CS146	GUTAM HARSHITHA	CSE	195
206	B19CS147	K. AARTHI	CSE	195
207	B19CS148	CHELLOJU NIKITHA	CSE	195
208	B19CS149	MUNDADA RITHIKA	CSE	195
209	B19CS150	KUNDARAPU SPANDANA	CSE	195
210	B19CS151	GORRE MANOJ KUMAR	CSE	195
211	B19CS154	JATTI BHANUPRASAD	CSE	195
212	B19CS155	PERALA CHARAN RAJ	CSE	195

213	B19CS156	SAMALA SHARVAN	CSE	195
214	B19CS157	KUNDARAPU DARSHINI	CSE	195
215	B19CS159	ROKULA MEGHANA	CSE	195
216	B19CS160	PINAPAKA GAYATHRI	CSE	195
217	B19CS161	BALAGONI MRUDULA	CSE	195
218	B19CS162	KOYYETI RAJESH	CSE	195
219	B19CS164	RAMA SAI SINDHUJA	CSE	195
220	B19CS165	NAMALA VISHNU SAI	CSE	195
221	B19CS166	PODISHETTY SRILEKHA	CSE	195
222	B19CS167	VUPPULA YUKTASRIYA	CSE	195
223	B19CS168	MIDIDODDI RAMAKRISHNA	CSE	195
224	B19CS170	KUNDUR NIKITHA	CSE	195
225	B19CS171	BOORLA SUMANTH	CSE	195
226	B19CS172	TUDI BHAVANA	CSE	195
227	B19CS173	VAVALDAS MANOGNA	CSE	195
228	B19CS174	ANNAMANENI VYSHNAVI	CSE	195
229	B19CS175	KANDUKURI PALLAVI	CSE	195
230	B19CS176	CHITYALA SWETHA	CSE	195
231	B19CS179	JAKKULA LIKHITHA	CSE	195
232	B19CS180	MOHD SAIF	CSE	195
233	B19EE001	P. KOUSHIK KAMAL	EEE	195
234	B19EE004	NARAHARI JHANSI	EEE	195
235	B19EE010	VALAPADASU MANASA	EEE	195
236	B19EE013	GUGGILLA HARINI	EEE	195
237	B19EE014	THALAKOKKULA VAISSHNAVI	EEE	195
238	B19EE018	SILIVERI SRIKANTH	EEE	195
239	B19EE024	KUMMARIKUNTLA CHANDANA	EEE	195
240	B19EE025	VALABOJU SUPRIYA	EEE	195
241	B19EE026	CHITTAWAR SRINIDHI SANTOSH	EEE	195
242	B19EE029	ATTALURI KOUSHIK	EEE	195
243	B19EE032	LIKKI HIMA VARSHA	EEE	195
244	B19EE034	MAROJU SREEJA	EEE	195

245	B19EE036	KODURUPAKA REVANTH SAI	EEE	195
246	B19EE037	RAGULA ADARSH KUMAR	EEE	195
247	B19EE045	AKUNURI KEERTHI	EEE	195
248	B19EE046	BOMMIDI NIKHITHA	EEE	195
249	B19EE047	KANUKUNTLA SAKSHI	EEE	195
250	B19EE050	NIMMA DINESHWAR REDDY	EEE	195
251	B19EE051	MUDETHULA ARUNDHATI	EEE	195
252	B19EE056	SHIVA SAMBARI	EEE	195
253	B19EE057	CH. SHEETHAL	EEE	195
254	B19EE058	KOTA SRIKAR	EEE	195
255	B19EE061	D. RATHAN GOWRI KUMAR	EEE	195
256	B19EE062	MADHARAPU SHIVANI	EEE	195
257	B19EE063	TEJAVATH RAHUL	EEE	195
258	B19EE064	KODEPAKA SUJEETH KUMAR	EEE	195
259	B19EE065	JANGAM SATHWIKA	EEE	195
260	B19EE066	REMALLA TRIVENI	EEE	195
261	B19EE067	YALAMAKONDA NISHASHVI	EEE	195
262	B19EE068	MEDISETTI DEEPAK	EEE	195
263	B19EE073	MAHESHAPU ANUSHA	EEE	195
264	B19EE074	GOVINDU SANTHOSH KUMAR BALAJI	EEE	195
265	B19EE075	G. SRIKANTH	EEE	195
266	B19EE077	JILUKARA SAI CHANDU	EEE	195
267	B19EE079	VALAPADASU DILEEP KUMAR	EEE	195
268	B19EE080	NISHATH TABASSUM	EEE	195
269	B19EE082	VAIDYA RAHUL	EEE	195
270	B19EE083	SAMBARAJU RAMYA	EEE	195
271	B19EE084	THALLAPALLY SHIVA	EEE	195
272	B19EE086	REBELLY PRAVACHAN	EEE	195
273	B19EE087	PINNOJU GAYATRI	EEE	195
274	B19EE090	SRIPATHI SRUTHI	EEE	195
275	B19EE097	PULI SAI THARUN	EEE	195

276	B19EE098	BORIGAM PRANITHA	EEE	195
277	B19EE100	KURIMILLA SRIVARSHA	EEE	195
278	B19EE101	GIRAVENA SWATHI	EEE	195
279	B19EE103	CHATLA SHIVA SAI	EEE	195
280	B19EE105	CHINTHAM AKASH	EEE	195
281	B19EE108	PAKA ANUSHA	EEE	195
282	B19EE109	SANGINENI SINDHU	EEE	195
283	B19EE110	LATIKAR ABHINAY	EEE	195
284	B19EE111	GOPU KAVYA SRI	EEE	195
285	B19EE113	POGULA SUJITH	EEE	195
286	B19EE115	BIJJA SRUTHI `	EEE	195
287	B19EE116	KAPARABOINA SUJITH KUMAR	EEE	195
288	B19EE118	GUNDEBOINA SHIVA KRISHNA	EEE	195
289	B19EE120	KORRI SHASHI KUMAR	EEE	195
290	B19EC008	AKULA KALYAN	ECE	195
291	B19EC010	AAVULA PRASAD	ECE	195
292	B19EC013	MARUPAKA THARUN	ECE	195
293	B19EC017	SRIDASYAM NIKHILA	ECE	195
294	B19EC018	AVIRINENI PRATHYUSH	ECE	195
295	B19EC023	SADU MADHUVAMSHI REDDY	ECE	195
296	B19EC026	THOTA RAHUL	ECE	195
297	B19EC028	M NAVEEN RAJ	ECE	195
298	B19EC029	MOHAMMED ABDUL FARHAN	ECE	195
299	B19EC030	VENGAL REDDY DIWAKAR REDDY	ECE	195
300	B19EC031	RAMAGIRI VIKAS VARDHAN	ECE	195
301	B19EC040	PENCHALA SRI CHANDRA	ECE	195
302	B19EC042	VELDI HARIKA	ECE	195
303	B19EC047	IREDDY RAKESH KUMAR REDDY	ECE	195
304	B19EC048	SYED KHAJA IBRAHEEM HUSSAIN	ECE	195
305	B19EC050	ANGATHA ABHIRAM	ECE	195
306	B19EC056	KANNEBOINA SIDDHARTHA	ECE	195
307	B19EC057	VELUGATI SAI KIRAN REDDY	ECE	195

308	B19EC058	PARVATAHA ARAVIND	ECE	195
309	B19EC061	GODISHALA RITHIWIK	ECE	195
310	B19EC062	THANDRA SRIVARSHA	ECE	195
311	B19EC063	KANDALA SPANDANA	ECE	195
312	B19EC066	GORANTALA ROSHINI	ECE	195
313	B19EC068	SEETHANABOINA SAI BALAJI	ECE	195
314	B19EC072	KONDAM YAGNITH REDDY	ECE	195
315	B19EC073	BATTU JHANVITHA	ECE	195
316	B19EC074	BHUKYA MAMATHA	ECE	195
317	B19EC077	MALOTHU THIRUMALADEVI	ECE	195
318	B19EC078	CHITYALA CHETHAN	ECE	195
319	B19EC079	GAJJI SAI VARSHA	ECE	195
320	B19EC084	PADI TEJASREE	ECE	195
321	B19EC085	RAVIKANTI LAXMAN	ECE	195
322	B19EC086	AKKENAPALLY RITHUSHA	ECE	195
323	B19EC088	AILONI NIKITHA	ECE	195
324	B19EC089	LADALLA AKSHAYA	ECE	195
325	B19EC092	PAKA SAHASRA	ECE	195
326	B19EC095	RAPAKA SANDEEP SAI	ECE	195
327	B19EC096	PENTHALA AAKRUTHI REDDY	ECE	195
328	B19EC099	K. RITHWIK KUMAR	ECE	195
329	B19EC100	PULI NAVYA	ECE	195
330	B19EC102	AISHWARYA AKKI	ECE	195
331	B19EC103	GANTA MEGHANA	ECE	195
332	B19EC104	MUNNURU MALATHI	ECE	195
333	B19EC105	KONDABATHINI LAHARI	ECE	195
334	B19EC108	MARIGANTI VAIBHAVA PRANEETH	ECE	195
335	B19EC110	PERIKA SRICHAKRA	ECE	195
336	B19EC111	VADAI SUPRIYA	ECE	195
337	B19EC112	KANDUKURI SIRI MOHAN	ECE	195
338	B19EC113	BOLLENA NAVYA	ECE	195



339	B19EC114	GUNTHA SACHIKETHAN	ECE	195
340	B19EC115	GADDAM SMITHA	ECE	195
341	B19EC117	CHALLA SUHAS REDDY	ECE	195
342	B19EC118	CHELLA SUMALINI	ECE	195
343	B19EC119	GALINGULA SHALINI	ECE	195
344	B19EC120	B. PRAVALIKA	ECE	195
345	B19EC122	RAMPELLI SAI MEGHANA	ECE	195
346	B19EC123	THOKALA KIRAN	ECE	195
347	B19EC124	SYED WASEEM UR RAYYAN	ECE	195
348	B19EC126	BADISHE AKHILA	ECE	195
349	B19EC127	SHEELA SHIVA SAI VARDHAN	ECE	195
350	B19EC128	EEGAM KUSHAL	ECE	195
351	B19EC129	PONUGOTI HARSHITHA	ECE	195
352	B19EC130	MOSALI ABHINAV REDDY	ECE	195
353	B19EC131	KUNAMALLA SATHWIK	ECE	195
354	B19EC132	RAVULA SHIVANI	ECE	195
355	B19EC133	ARORY HARSHAVARDHAN REDDY	ECE	195
356	B19EC134	KUNUSHOTHU AKSHAYA	ECE	195
357	B19EC135	BHEEMAVARAPU BHANU REKHA REDDY	ECE	195
358	B19EC139	PEDDAVENTHURLA REETHU NIHARIKA	ECE	195
359	B19EC140	PALLE SAGARIKA	ECE	195
360	B19EC142	VADDIRAJU SAI SATHWIK	ECE	195
361	B19EC143	MADINE VENKATA SURYA PRASAD	ECE	195
362	B19EC146	ORUGANTI PRANAVA SRI	ECE	195
363	B19EC147	MUTNURI KRISHNA ADITYA	ECE	195
364	B19EC151	ELLANDULA KAVYA	ECE	195
365	B19EC152	SANA AFREEN	ECE	195
366	B19EC153	BETHANABATLA LAXMISWATHI	ECE	195
367	B19EC158	BAKKI SIRI	ECE	195
368	B19EC159	SUNKARANENI SHREYA	ECE	195
369	B19EC160	RAGHULA JEEVAN	ECE	195

370	B19EC161	TULA TEJASWINI	ECE	195
371	B19EC163	LEKKALA RISHITHA REDDY	ECE	195
372	B19EC165	JAMUNA ANUSHA	ECE	195
373	B19EC166	KANDUKURI TEJASWI	ECE	195
374	B19EC168	KODARI LAKSHMI PRASANNA	ECE	195
375	B19EC171	CHILUKURI PRANATHI PAVANI	ECE	195
376	B19EC173	ADLURI AISHWARYA	ECE	195
377	B19EC174	KATRAPALLY SRITHA	ECE	195
378	B19EC175	RAPELLI HEMANTH	ECE	195
379	B19EC177	CHELUMALLA SRAVAN KUMAR	ECE	195
380	B19EC178	P SOWMYA RAJ	ECE	195
381	B19EC180	BUSSI SAI KIRAN	ECE	195
382	B19IT004	GUJJA SRUTHI	IT	195
383	B19IT008	AILENI RUTHVIK REDDY	IT	195
384	B19IT017	G. SAI PRIYA	IT	195
385	B19IT019	SRIRAMOJU ALEKYA SAI	IT	195
386	B19IT023	LADALLA ABHAYA	IT	195
387	B19IT030	CHAVAN SOUMYA	IT	195
388	B19IT031	KARNAKANTI RISHITHA	IT	195
389	B19IT043	THOTA NAGASREYA	IT	195
390	B19IT050	PODISHETTI SHREYA	IT	195
391	B19IT054	GANNU VAIBHAVI	IT	195
392	B19IT056	ASIRVADAM JOIS	IT	195
393	B19IT057	NAGAMANDLA SHIVANI	IT	195
394	B19CN001	ANNAMANENI NISHIKANTH	CSN	195
395	B19CN002	TUMATI NETHA SRI DATTHA	CSN	195
396	B19CN003	PINGILI SHOBHANA	CSN	195
397	B19CN005	BHAVANA AGARWAL	CSN	195
398	B19CN007	KOTHA VENNELA	CSN	195
399	B19CN008	PALLEBOINA SUJALA	CSN	195
400	B19CN009	KONDAPALLY SANTHOSHINI SHIVANI	CSN	195

401	B19CN014	PADMAKANTI BHAVAGNYA	CSN	195
402	B19CN016	N. SOUMYA SREE	CSN	195
403	B19CN018	ERUKULLA AKSHAYA	CSN	195
404	B19CN019	PULYALA VIVEK REDDY	CSN	195
405	B19CN021	KASAM SANJUNA	CSN	195
406	B19CN022	PULLURU DHEERAJ	CSN	195
407	B19CN023	VENGALA SAI RUTHWIK	CSN	195
408	B19CN025	VANAMALA SUPRIYA	CSN	195
409	B19CN027	REETHIKA VADDI	CSN	195
410	B19CN030	KURA SAI NIKHIL REDDY	CSN	195
411	B19CN031	KONDA VIDHEESHA	CSN	195
412	B19CN033	KOSANA VISHNU VARDHAN REDDY	CSN	195
413	B19CN034	BATHINI SRINIJA	CSN	195
414	B19CN035	ADITHI RAJASHRI CHITTA	CSN	195
415	B19CN036	VEDANTHAM SREE NIKETAN	CSN	195
416	B19CN037	G. ANANYA REDDY	CSN	195
417	B19CN038	CHEKURTHI PRIYANKA	CSN	195
418	B19CN040	RAVULA NISCHITHA	CSN	195
419	B19CN041	KOLAGANI MANUSRI	CSN	195
420	B19CN042	SHAISTA FATIMA	CSN	195
421	B19CN047	SRAVAN REDDY MYAKALA	CSN	195
422	B19CN048	VARAKALA LOKESH KUMAR	CSN	195
423	B19CN049	AISHWARYA MALLARAPU	CSN	195
424	B19CN055	KUMMARI HARISH	CSN	195
425	B19CN058	EMMADI SUDHISHNA	CSN	195
426	B19CI002	MUTHIREDDY SAI NIKSHITHA	ECI	195
427	B19CI003	K NAGA REETHIKA	ECI	195
428	B19CI004	DANIYA ZAKI	ECI	195
429	B19CI005	CHEERLA JASHWANTH	ECI	195
430	B19CI007	PAMU DIVYA SRI	ECI	195
431	B19CI010	SREERAMOJU SRAVAN KUMAR	ECI	195

432	B19CI012	EMMADI THARUN	ECI	195
433	B19CI013	GONE DEEPSHIKA	ECI	195
434	B19CI015	VADNALA ABHINAYA	ECI	195
435	B19CI016	MARUPAKA SAI ABHISHEK	ECI	195
436	B19CI019	PODISHETTI DHARANI	ECI	195
437	B19CI020	GODISHALA KARTHIKEYA	ECI	195
438	B19CI022	GYKOTI PRANAVA	ECI	195
439	B19CI024	RAYABARAPU VAMSHI KRISHNA	ECI	195
440	B19CI027	THOTA AKASH	ECI	195
441	B19CI028	REVOORI AKSHAJA REDDY	ECI	195
442	B19CI029	SREERAMOJU SAI KRISHNA	ECI	195
443	B19CI032	LINGALA VIRAN	ECI	195
444	B19CI033	VANGAPALLI SAI KARTHIK	ECI	195
445	B19CI035	SUDULA DEEPIKA REDDY	ECI	195
446	B19CI043	CHELPURI SHIVANI	ECI	195
447	B19CI046	BINGI THANMAI SRI	ECI	195
448	B19CI047	JAKKU PRASHANTH REDDY	ECI	195
449	B19CI048	BABBURI BHARGAVI	ECI	195
450	B19CI053	YAMSANI SAI SAMRUTH	ECI	195
451	B19CI054	NANDIKONDA VIVEKANANDA REDDY	ECI	195
452	B19CI056	GUGULOTHU AVINASH	ECI	195
453	B19CI058	JARPULA NAVEEN	ECI	195

**B.Tech II Year**

<b>S.No</b>	<b>Roll No.</b>	<b>Name of the Student</b>	<b>Branch</b>	<b>Reg. Fee (Rs.)</b>
1	B18CE003	THOTA VYSHNAVI	CE	161
2	B18CE006	GUNDAVARAM MYTHILY	CE	161
3	B18CE007	MECHINENI SAINATH RAO	CE	161
4	B18CE009	SATHURI AKHILA	CE	161
5	B18CE012	TALLAM SRINIDHI	CE	161
6	B18CE014	PORANDLA RISHIKESH	CE	161
7	B18CE016	DEVUNURI BHUVANA CHANDRA	CE	161
8	B18CE019	POLOJU HIMAVARSHINI	CE	161
9	B18CE021	SAMPATHI RAJESH KUMAR	CE	161
10	B18CE023	MERUGU HARINI	CE	161
11	B18CE025	ANUMANDLA SREEJA	CE	161
12	B18CE026	MARUTHI SHRESHTA	CE	161
13	B18CE029	GUNDA NAVANEETH KUMAR	CE	161
14	B18CE030	BOMMAKANTI SUMA VARSHA	CE	161
15	B18CE031	BASHABATHINI SAI CHARAN	CE	161
16	B18CE033	DEVARAM MADHU CHANDRA	CE	161
17	B18CE036	AITHA VYSHNAVI	CE	161
18	B18CE037	KONDOJU ANJALI	CE	161
19	B18CE038	GOTTAM SHRUTHI	CE	161
20	B18CE048	ARURI VIDYA	CE	161
21	B18CE049	DONIKALA HRUDHAYESH	CE	161
22	B18CE050	GUNDEKARI RAHUL	CE	161
23	B18CE054	SANKEPALLI SHASHIKANTH REDDY	CE	161
24	B18CE060	MATETI VYSHNAVI	CE	161
25	B18CE066	BIROJU SIRI CHANDANA	CE	161
26	B18CE069	CHINTHALAPANI MANISHA REDDY	CE	161
27	B18CE072	G. SRAVYA	CE	161
28	B18CE073	SUTHARI JOSHMITHA	CE	161

29	B18CE078	POTHARABOINA SHRUTHI	CE	161
30	B18CE080	SURAM CHANDANA	CE	161
31	B18CE081	AKULA SRIVANI	CE	161
32	B18CE085	SAMMUJI NAGARAJU	CE	161
33	B18CE087	NAGAPURI MEENAL	CE	161
34	B18CE089	SREE SAI CHARAN KATAKAM	CE	161
35	B18CE094	YELPULA LAXMI PRASANNA	CE	161
36	B18CE098	BANOTH NIRMALA	CE	161
37	B18CE099	ALLA SRINIDHI	CE	161
38	B18CE103	TALLAM SREEJA	CE	161
39	B18CE106	SIRIKONDA SUSHMA	CE	161
40	B18CE107	MARGAM VENKAT SAI	CE	161
41	B18CE111	VELPULA GREESHMA	CE	161
42	B19CE121L	GUNDAMEEDI NITHYASREE	CE	161
43	B19CE127L	KOVURU RAJANIKANTH	CE	161
44	B18EI016	MOOGU SAI SHIVA KAPIL TEJA	EI	161
45	B18EI021	VANAMALA MADHUMITHA	EI	161
46	B18EI036	SAMALA USHA SRI	EI	161
47	B18EI038	APURI SAIPREETHAM	EI	161
48	B18CS014	KOPPISETTI SAI BHAVYA	CSE	161
49	B18CS029	POOJITHA PONNAM	CSE	161
50	B18CS044	BANGARI SRI VAAGDEVI	CSE	161
51	B18CS045	MADEENA ALMAS	CSE	161
52	B18CS050	BONAGIRI APOORVA	CSE	161
53	B18EE077	DAMERUPPULA AKHILA	EEE	161
54	B19EE125L	PANDUGA SHRAVANI	EEE	161
55	B18EC001	VANKAMAMIDI ADITHYA BHRAGAV	ECE	161
56	B18EC005	CHANDA JYOSHNA	ECE	161
57	B18EC007	PENUMATI PAVAN TEJA	ECE	161
58	B18EC008	ALLOJU SAHITHI PRIYA	ECE	161
59	B18EC009	CHINTAPATLA SAI PRATHYUSHA	ECE	161

60	B18EC013	TANZEELA KONIAN	ECE	161
61	B18EC019	ALGURI SWAAPNIK	ECE	161
62	B18EC023	SUNKARI SAIDEEP	ECE	161
63	B18EC026	KESHIPEDDI SAI BHATT	ECE	161
64	B18EC029	MOTHUKURI AMOGH	ECE	161
65	B18EC030	KASULA SUMANTH	ECE	161
66	B18EC037	BURUGU PALLAVI	ECE	161
67	B18EC052	JALAGAM LAXMI LAHARI	ECE	161
68	B18EC054	RAHUL THODUPUNOORI	ECE	161
69	B18EC057	PERUGU DEEPALI	ECE	161
70	B19EC181L	KOLLURI VAISHNAVI	ECE	161
71	B19EC182L	MUNAZZAR AJREEN	ECE	161
72	B19EC183L	DUBBAKA GAYATHRI	ECE	161
73	B19EC184L	VOORUGONDA MADHURI	ECE	161
74	B19EC185L	POTHARAJU VARSHA	ECE	161
75	B19EC186L	KOTHAKONDA HITHA	ECE	161
76	B18IT008	KURUPATH SNEHITHA	IT	161
77	B18IT053	POOSA SREE CHANDANA	IT	161

### B.Tech. III Year

S.No	Roll No.	Name of the Student	Branch	Reg. Fee (Rs.)
1	B17CE002	PANYALA SAHITH REDDY	CE	127
2	B17CE042	VEERA RUCHITHA	CE	127
3	B17CE046	VEMUNURI ADHEESHWER	CE	127
4	B17CE058	SIMHARAJU PURNACHANDHAR	CE	127
5	B17EC010	ALETI NITHISH REDDY	EC	127
6	B17EC031	M SAINATH CHOWDARY	EC	127
7	B17EC141	V VENKATA SAI SANTHOSHA DEEKSHITHA	EC	127
8	B17EC148	BASWA HEMANTH	EC	127
9	B17EC150	BANDI VENKATA SAI TEJA	EC	127
10	B17EC168	GAMPALAPELLY DEVIKA	EC	127
11	B17EC169	BODKUNTI PRAVALIKA	EC	127
12	B17EC170	RAVULA SUSMITHA	EC	127

13	B17EC179	SATHWIKA DASU	EC	127
14	B18EC205L	CHADA SAMYUKTHA	EC	127
15	B17CS075	DONDAPATI VIKHYATH REDDY	CS	127
16	B17IT018	SINDHU TALLAPALLY	IT	127

**MBA**

S.No	Roll No.	Name of the Student	Branch	Reg. Fee (Rs.)
1	M19MB002	SATLA LIKITHA	MBA	127
2	M19MB003	THALLA JEEVANA	MBA	127
3	M19MB006	VELISHALA POOJA	MBA	127
4	M19MB017	CHEPPELA ALEKHYA SHARMA	MBA	127
5	M19MB025	A KISHORE	MBA	127
6	M19MB026	REPALA SOUMYA SRI	MBA	127
7	M19MB036	GOPISETTY LAVAN KUMAR	MBA	127
8	M18MB059	MUPPIDI REVANTH REDDY	MBA	127

Year	No. of Students	Reg. Fee (Rs.)	Amount (Rs.)
B.Tech. I Year	453	195	88,335.00
B.Tech. II Year	77	161	12,397.00
B.Tech. III Year	16	127	2,032.00
MBA	08	127	1,016.00
<b>TOTAL AMOUNT</b>			<b>1,03,780.00</b>

(Rupees in words: One lakh three thousand seven hundred and eighty only)

**(Dr. S.Sunil Pratap Reddy)**  
I/c Faculty, ISTE KITSW Chapter



## A Report on SUMSHODHINI'19

**SUMSHODHINI'19 - "A National Level Students Technical Symposium"** organized by ISTE KITS Student Chapter in coordination with all the departments during 24<sup>th</sup> - 26<sup>th</sup> October 2019. This technical fest is mainly intended to provide a common platform for all engineering students in the country to innovate, share and experience their technical skills and knowledge.

On **Day-I** (24<sup>th</sup> October, 2019), the following Pre-workshops were organized

Department	WORKSHOP	No. of days	Venue
CE	3D FLOOR MODELLING	1	B -IV -201 (AUTO CAD LAB)
ME	SPACE CRAFT DESIGN	2	B-III -201 (Mech. Seminar Hall)
E&I	BRAINWAVE CONTROLLED ROBOT	2	IBM LAB
EEE	ENERGY CONSERVATION IN SMART CITIES	2	B -IV-210
CSE	ROBOTIC PROCESS AUTOMATION	1	Auditorium
IT	GOOGLE CLOUD PLATFORM	1	B - IV -216 (Civil Seminar Hall)
ECE	INDUSTRIAL IOT	2	Silver Jubilee Seminar Hall

### **Inaugural session of SUMSHODHINI'19**

Inaugural session commenced at 10:30 am on 25<sup>th</sup> October, 2019 at Silver Jubilee Seminar Hall. Capt. V. Lakshmikantha Rao, Member of Parliament, Rajya Sabha and Secretary & Correspondent, KITSW was the chief Guest of the Inaugural Function. Sri. E. Ram Reddy, member, Ekashila Educational Society and Sri.A. Harish Kumar, member, Ekashila Educational Society were the guests of Honor. Mr. P. Narasimha Reddy, President, ISTE Student Chapter welcomed all guests for the National Symposium. Dr. K. Sridhar, Convener, SUMSHODHINI'19, Professor and Head, Department of Mechanical Engineering, KITSW, gave a brief report on the Technical fest and said that nearly 720 students registered for the workshop. Sri.A.Harish Kumar, member, EES said that the application of theories with latest technical skills is more important in the present scenario. Dr. K. Ashoka Reddy, Principal, KITSW, has emphasized the significance of the National Level Students Technical Symposium - SUMSHODHINI'19. In the Presidential remarks, Capt. V. Lakshmikantha Rao, Member of Parliament, Rajya Sabha and Secretary & Correspondent, KITSW said that SUMSHODHINI'19 is a good technical platform to share and learn latest technical knowledge and to know how inter disciplinary engineering fields explore the development in engineering and technology.



Lighting the Lamp by the delegates



Release of Souvenir

After the Inaugural session apart from the workshops the following events were organized at the respective departments:

**DEPARTMENT OF CIVIL ENGINEERING:**

S. No	Event Name	Event Description	Date	Venue	Timings
1.	Paper & Poster presentations	Power point Presentation on civil engineering related topics. Participants are here encouraged to present, discuss and interact with the presiding judges and audience of the event, with their conceived ideas, worked -out theories and pursued projects. No. of Participants per team 3 members Maximum time allotted for presentation 15 minutes.	25 <sup>th</sup> Oct 2019 F/N	B-IV 216 Civil Seminar Hall and one e-class room	10:00 am to 1:00 pm
2.	Replica	This is all about the real crafting, sculpting and building mettle in the budding civil engineers. Participants start working on their own chosen structure (any monument, tower, dam etc.) well before the commencement of Sumshodhini, they replicate the entire structure with any material and they happily exhibit their model to everyone 3 Members per team	25 <sup>th</sup> Oct 2019 F/N	Civil Engineering Department Gallery	10:00 am to 1:00 pm
3.	Bridge Fabrication (with Popsicle sticks)	In this event the students need to construct the bridge with the given materials and the bridge bearing heavy loads will be awarded.	Modelling 25 <sup>th</sup> Oct 2019 A/N Testing: 26 <sup>th</sup> Oct 2019	B-IV - 316 Drawing Hall	Modelling 2:00 pm to 5:30 pm Testing: 4:00 pm to 5:00 pm
4.	Tech Intellect (Quiz)	This event consists of three rounds. 1 <sup>st</sup> round: A river will be chosen by each of the team and time is given to google about the river and questions will be posed. 2 <sup>nd</sup> round: A bridge will be chosen by each of the team and time is given to google about the river and questions will be posed. 3 <sup>rd</sup> round: A monument will be chosen by each of the team and time is given to google about the river and questions will be posed. 5 members per team	26 <sup>th</sup> Oct 2019 F/N	B-IV - 216 Civil Seminar Hall	10:00 am to 12:0 pm

5.	Instridge (Brick Arch Bridge Design and Fabrication)	This event is to construct an arch bridge where the participants will be divided into teams. Each team will be given red bricks, sand and water. Students need to construct using the given materials. The load is applied on the deck of the bridge which will bear more loads will be awarded. A maximum of 5 members in a team	26 <sup>th</sup> Oct 2019 F/N	Infront of Block I	12:00 pm to 1:00 pm
6.	Concretrix	A challenging event in which the students will be taught about Concrete mix design and each team will be given a challenge to design a concrete mix with given materials and properties, and cast 2 cubes. The cubes are cured for 7 days compression strength test is performed to select a best team. A maximum of 5 members in a team	Pre- Event 4 <sup>th</sup> and 5 <sup>th</sup> October 2019. Testing: 25 <sup>th</sup> Oct 2019	Dept of Civil Engg. CONCRETE LAB	2:00 pm to 5:30 pm
7.	Tech Treasure Hunt	A real time technical hunt for treasure in the field with hidden clues all around the campus. A team consists of 5 students will be directed through hints and clues towards a treasure. Treasure will be awarded to a team who brings it along with all the clues hidden in the campus.	26 <sup>th</sup> Oct 2019 A/N	KITSW Campus Starts from Civil Engg. Dept	2:00 pm to 4:00 pm

### DEPARTMENT OF MECHANICAL ENGINEERING

S. No.	Event Name	Event Description	Date	Venue	Timings
1.	Paper Presentation	Participant needs to present a technical aspect of EMERGING TECHNOLOGIES in Mechanical Engineering and its allied fields. A maximum of 2 participants per team.	26 <sup>th</sup> Oct 2019 F/N & A/N	Mechanic al Seminar Hal (B III 210)	10: 00 am to 5: 30 pm
2.	Royal Rumble	Two bots face-off each in a wrestling ring with an objective to push the opponent's bot out of the ring to win the championship. A maximum of 4 members per team	26 <sup>th</sup> Oct 2019 F/N & A/N	Central Workshop	10: 00 am to 1:00pm & 2: 00 pm to 5:30 pm
3.	Khel Kabaddi	Two bots engage in a thrilling Kabaddi match complying to rules and regulations similar to professional Kabaddi matches. A maximum of 4 members per team.	26 <sup>th</sup> Oct 2019 F/N & A/N	Central Workshop	10: 00 am to 1:00pm & 2: 00 pm to 5:30pm pm

4.	Sand Cruiser	The bot has to race against time and sand obstacles. The bot which travels the longest distance emerges victorious. A maximum of 4 members per team.	26 <sup>th</sup> Oct 2019 A/N	Central Workshop	2: 00 pm to 5: 30 pm
5.	Udaan	Students need to build their own mini glider and fly them in an open ground. The glider with longest flight time wins the competition. A maximum of 2 members per team.	26 <sup>th</sup> Oct 2019 F/N	KITSW Playfields	10: 00 am to 1:0 0 pm
6.	Mech Master	A trivia contest to test the mechanical aptitude of the student in various levels. A maximum of 2 members per team.	26 <sup>th</sup> Oct 2019 A/N	B III 216	2: 30 pm to 4: 30 pm

**DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING:**

S.No.	NAME OF THE EVENT	DESCRIPTION	ORGANISERS	VENUE
1	PAPER PRESENTATION	To enable an individual to improve their presentation skills in front of Crowd.	Nancy kumari- 9182228043 K.Supriya - 9177862072 M.Shreya Reddy- 7331124340 M.Nikhil Raj- 7989743649 K.Pranitha- 7013148337	MPSI LAB
2	PLACEMENT FEVER	This event provides the participants an interview experience.	Shravani Spandhana	PROJECT LAB
3	TECH BUZZ	Technical, entertaining and general quiz It's all about what an engineering student should know, challenge everything let your caliber rule.	M.Shilpa Reddy- 8897893126 A.Jeevana- 9676619486 Vishnu Priya	MEASURE MENT LAB
4	FIRE WINGS	Technical, entertaining and general quiz which helps the students to improve their skills.	Sri lekha Shivapriya satwik	Block-I
5	BLIND FOLD	It is a mixture of Technical and non-technical stuff. It is all about bringing out your hidden knowledge about instruments	K.Avinash Y.Sree Ram M.Naga Sai	LIC LAB

		and building circuits.		
6	MIND STORM & EX-QUIZ-ME	It a technical and non technical event where you can test your memory status and make improve your knowledge in practical application	k.Rakshitha-8919285566 N.Tejaswini- M.Sumana	ECAD LAB
7	INVENTRIX	Technical event involving logical thinking in analysing a problem and speed in implementation.	M.Vishnu B.Sohith A.jithandher	VI LAB

### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

S.No.	EVENT NAME	DESCRIPTION	ORGANISERS	VENUE
1	PAPER PRESENTATION	Paper presentation plays an extravagant role in the student's life. Motto of the presenting paper is to bring students out of stage fear and also improve their communication skills.	K. Aditya - 7013938401 Rohith Chandra - 8309404624	Block-III
2	PROJECT PRESENTATION	This event helps the student to attain technical Knowledge with the help of practical experience and simultaneously improve the individual's proficiency in delivering a presentation.	P.Ranjith Kumar - 7036885704 Sanober Mirza - 9618193515	Block-III
3	POSTER PRESENTATION	A poster presentation advertises a project. It combines text and graphics to present project in a way that is visually interesting and accessible. It allows you to display your work to a large group of other scholars and to talk to and receive feedback from interested view.	S.Krishna Prasad - 9959872372 Spandana - 7997063760	Block-III
4	ELECTRICAL EXPO	It is a competition where contestants present there projects in the form of hardware model that they have created. It allows the students to do intelligent and meaningful experiments.	A.Srikar - 8464001244 B.Nuthana - 7036433464	Block-III
5	ELECTRICAL ELITE	It is not just about the competition but a technical event in which everyone can enjoy by expressing their knowledge in every dimension that might get useful in further classes.	M.Rushitha - 9121810695 E.Sai Krishna - 9550788612	Block-III

6	PHASOR	It is a technical event and interactive event in which one can explore the knowledge related to electrical and electronic aspects in a new dimension.	M.Dharani Sai - 7993573570 Yash Bohra - 9652241761	Block-III
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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING:**

S.No.	EVENT	VENUE	DATE	Faculty Advisor	Student Organizer
1	Paper Presentation	Block - I -203 Digital Communication Lab	25 <sup>th</sup> Oct, 2019 (F.N&A.N)	Dr.B.Rama Devi 9885865496 K.Ramudu 9700387694 Dr.M.Chandrasekhar 8374932535 D Srinivas Rao 6300158741	V Siri (9566404257) K Praneesh Sathwika J Shikara
		Block - I -205 Signal Processing Lab	26 <sup>th</sup> Oct, 2019 (F.N&A.N)	S.P.Girija, 9963561691 Dr.V.Venkateshwar Reddy, 9948207285 A.Srinivas 9441390993 S Pradeep Kumar 7013969603	
2	Abhimukham	Block - I-202 {projector} IC Lab	26 <sup>th</sup> Oct, 2019 (F.N&A.N)	DrA.SubbaRao 7416404566 Mr.Syed Zaheeruddin 9908984169 R.Shashank 7989052729	N Bhanu Teja (7382125837) T Rakesh Reddy A Thrinath Reddy D Deepthi
3	IQ-Electronics	Block -V I -106 {projector+lab} Communication Lab	26 <sup>th</sup> Oct, 2019 (F.N&A.N)	B.Komuraiah 9676137682 J Sheshagiri Babu 8639742568 Dr B.Dhana Lakshmi 7989383219	P Samskrathi (9441771191) L Gayathri P Sai Vishal G Rakesh
4	Electrobyte	Block - VI -208 {projector+lab} Analog and Digital Simulation Lab	26 <sup>th</sup> Oct, 2019 (F.N&A.N)	P.Chiranjeevi 9908796040 V.Raju, 9966000075 E.Susmitha 9885646246	N Roshith (8656274929) J Goutham K Abhishek S Harshith
5	Circuitrix	Block - I-206 {projector} PDC Lab	26 <sup>th</sup> Oct, 2019 (F.N&A.N)	A.Vijaya 9392170440 A.Pavan 9030051591 D.Santhosh Kumar 8309469699	M Vineetha (6304371570) P Sowmya A Sowmya

S.No.	EVENT	VENUE	DATE	Faculty Advisor	Student Organizer
					CH Manisha
6	Techbuzz	(Block-II) New Seminar Hall	26 <sup>th</sup> Oct, 2019 (F.N&A.N)	E.Suresh 9849119063 D.Venu 9985396483 R.Srikanth 9440239688	J Vinusha (8801288987) G Navya T Kavya V Prabandha
7	Mindspark	Block -V I-209 {projector} Digital Electronics lab	26 <sup>th</sup> Oct, 2019 (F.N&A.N)	Dr.M.Raju 9949639941 B.Narsimha 8891402867 P.Yugander 9848904966	P Susmitha (8096463999) V Aravind E Prem R Bhavana Reddy

#### DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING:

S.No.	Event Name	Venue	Date of event	Time
1	Self Compiler	VC Lab	25.10.2019	10:00am-1:00 pm
2	LOGIX	WT Lab	25.10.2019	10:00am-1:00 pm
3	Tech Maze	WT Lab	25.10.2019	2:00 pm-4:00 pm
4	Code Fiesta	VC Lab	25.10.2019	2:00 pm -4:00 pm
5	Draw to Code	VC Lab	25.10.2019	4:00 pm -5:30 pm
6	Treasure Hunt	BV-204	26.10.2019	10:00am-12:00 pm
7	Battle of Brains	BV-202	26.10.2019	11:00am-1:00 pm
8	Technophilia	WT Lab	26.10.2019	10:00am-1:00 pm
9	App Inventor	VC Lab	26.10.2019	2:00 pm-4:00 pm
10	Code Warriors	WT Lab	26.10.2019	4:00 pm -5:30 pm

#### DEPARTMENT OF INFORMATION TECHNOLOGY

S.No.	Event Name	Venue	Date of event	Time
1	Power point presentations	Multimedia Lab	25-10-2019 & 26-10-2019	10:00am-5:00pm
2	Technophillia	Info Lab	25-10-2019	11am to 1pm
3	The Three Muskeeteers	NS Lab	25-10-2019	2pm to 4pm
4	Technotron	Info Lab	26-10-2019	10am to 12pm
5	The Run	NS Lab	26-10-2019	11pm to 1pm



6	Winner Winner Reward Winner	Room no:103	26-10-2019	2pm to 4pm
7	Explorica 4.0	Info Lab	26-10-2019	2pm to 4pm

## DEPARTMENT OF MBA

S. No.	EVENT	VENUE	Date
1	Business tycoon (Finance)	B-IV 008	25-10-2019
2	Biz-Quiz	B-IV 006	25-10-2019
3	Marketing combat	B-IV 009	25-10-2019
4	Young Leader	B-IV 130	25-10-2019
5	Paper presentations	B-IV 130	25-10-2019

### Valedictory session

Valedictory session commenced at 4:00 pm on 26<sup>th</sup> October, 2019 at Silver Jubilee Seminar Hall. A brief report on various events conducted was presented by respective department faculty coordinators. Later the student coordinators gave the feedback on the events organized. Dr.K.Sridhar, Convener SUMSHODHINI'19 gave the entire event report and thanked all the Deans, HoDs, Faculty and Students for their cooperation. Dr.K.Ashoka Reddy, Principal, KITSW gave the Presidential remarks and thanked Dr.K.Sridhar, Convener, Dr.K.V.Raghu Babu, Coordinator, Dr.S.Sunil Pratap Reddy, Co-coordinator, faculty coordinators and student coordinators of SUMSHODHINI'19 for making the symposium grand success. Vote of thanks was proposed by Mr.P.Narasimha Reddy, President, ISTE Students Chapter.



**Dr.S. Sunil Pratap Reddy**  
Co-coordinator

**Dr.K.V. Raghu Babu**  
Coordinator

**Dr.K. Sridhar**  
Convener



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**24TH-26TH OCTOBER 2019**

Paper Presentation Fee For ISTE Members : Rs.150/-  
For NON-ISTE Members : Rs.200/-  
Last Date for paper submission : 14-10-2019  
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ISTE KITS STUDENTS CHAPTER (AP016) PRESENTS

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## CIVIL

Paper & Poster presentations, Building, Bridge Fabrication, Tech Indirect, Landfill, Concrete, Tech, Treasure Hunt  
**Workshop - 3D FLOOR MODELLING**  
(Fee: Rs.750/- & Date: 24 Oct.2019)  
CONTACT : Faculty: Prof.L.Sudhakar Reddy(400) - 986672392  
Sri K.Srijan Varma-9865686577, Sri M.S.Kanthi-9959202082

Student Coordinator: Mr. M. CHAITANYA - 9895044158  
mail your papers to : civilsumshodhini@gmail.com

## MECH

Paper Presentations, Royal Bumble Bee( Kalyadi), Small Cracker, Modern Mech Meisters  
**Workshop - SPACECRAFT DESIGN**  
(Fee: Rs.1000/- & Date: 24-25 Oct.2019)  
CONTACT : Faculty: Prof.R.Sudhakar(400) - 8919616040  
Sri G.Vinod Kumar-9704391959, Sri S.Anil Kumar-9290770008

Student Coordinator: Mr. M. Kethika - 9949992575  
mail your papers to : mecha.kitsw@gmail.com

## EIE

Paper Presentations, Placement Fever, Tech Buzz, Fire Wings, Blood Field, Emulsion, Dark lit, Invention  
**Workshop - BRAINWAVE CONTROLLED ROBOT**  
(Fee: Rs.1250/- & Date: 24-25 Oct.2019)  
CONTACT : Faculty: Prof.V.Venunath(400) - 903207205  
Smt K.Shalaja-949214016, Sri G.Sajja-991242446

Student Coordinator: Mr.Dh.Sai Nikhil Reddy - 9908781063  
mail your papers to : eiecumshodhini2019@gmail.com

## EEE

Paper Presentation, Project Presentation, Poster Presentation, Electrical Expo, Electrical Etc., Phases  
**Workshop-ENERGY CONSERVATION IN SMART CITIES**  
(Fee: Rs.750/- & Date: 24-25 Oct.2019)  
CONTACT : Faculty: Prof.V.Ramabhad(400) - 9708585856  
Sri Santosh - 8009886804, Sri Nani: 9866535508

Student Coordinator: Mr. A. Sai Charan - 1032776471  
mail your papers to : eeecumshodhini2419@gmail.com

## ECE

Paper Presentation, Abstrakthem, IoT-Electronics, Electrophysio, Circuits, Techbuzz, Midgapark  
**Workshop - INDUSTRIAL IOT**  
(Fee: Rs.1200/- & Date : 24-25 Oct.2019)  
CONTACT : Faculty: Prof.G.Raghuvaran Reddy(400)-9849210464  
Smt Sowjanya-9865169380, Sri Abhilash Muqueem-8573833305

Student Coordinator: Mr. G. Sujan Kumar - 7388740390  
mail your papers to : sumshodhinece@gmail.com

## CSE

Paper presentations, Self compiler, Tech maze, Logic, App Invention, Treasure Hunt  
**Workshop-ROBOTIC PROCESS AUTOMATION**  
(Fee: Rs.750/- & Date: 24 Oct.2019)  
CONTACT : Faculty: Prof.R.Niranjan Reddy(400)- 9848770155  
Sri S.Nagaraju - 9885568578, Smt. V.Swathy, 995344414

Student Coordinator: Mr. Adil Umar - 9706114464  
mail your papers to : csedepartmentkitsw@gmail.com

## IT

Power point presentations, Techpolls, The Three Musketeers, Technation, The Book, Winner, Winner, Forward Winner, Exploring 4.0  
**Workshop - GOOGLE CLOUD PLATFORM**  
(Fee: Rs.500/- & Date : 24 Oct.2019)  
CONTACT : Faculty: Prof.P.K.Mahesh(400) - 8441930591  
Sri M.Kishore-927294859, Sri T.Mahesh Kumar-9885686566

Student Coordinator: Ms. M. Niharika - 915422343  
mail your papers to : itsumshodhini@gmail.com

## MBA

Business tycoon (Finance), Biz-Quiz, Marketing combat, Young Leader, Paper presentations  
**Workshop - BUSINESS PLAN**  
(Fee: Rs.750/- & Date : 24 Oct.2019)  
CONTACT : Faculty: Dr. J. Nivedita Reddy(400) - 9969286699  
Sri K.Shashank : 90028227

Student Coordinator: Mr. M. Bewanth Reddy - 9700980257  
mail your papers to : mbasumshodhini@gmail.com

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Student Coordinator  
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Prof. G. Sujan Kumar  
Student Coordinator  
7388740390

Dr. J. Nivedita Reddy  
Faculty  
9969286699

# 'సాంకేతిక పరిజ్ఞానాన్ని పెంచుకోండి'

**భీమారం, న్యూస్టుడే:** ఇంజనీరింగ్ చదువుతున్న విద్యార్థులు సాంకేతిక పరిజ్ఞానాన్ని పెంపొందించుకుని భవిష్యత్తులో గొప్ప ఇంజనీర్లుగా రాణించాలని వరంగల్ రాజ్యసభ సభ్యులు, కిట్స్ ఇంజనీరింగ్ కళాశాల సెక్రటరీ అండ్ కరస్పాండెంట్ కె.పెన్.వి. లక్ష్మీకాంతరావు అన్నారు. హాసన్ పర్తి మండలం భీమారంలోని కిట్స్ ఇంజనీరింగ్ కళాశాలలో మూడు



సీడీని ఆవిష్కరిస్తున్న కె.పెన్ లక్ష్మీకాంతరావు, రాంరెడ్డి, హరీష్ తదితరులు

రోజుల పాటు నిర్వహించనున్న జాతీయ స్థాయి విద్యార్థి సంపోజియం (సంశోధిని-19) కార్యక్రమాన్ని శుక్రవారం ఆయన జ్యోతి వెలిగించి ప్రారంభించి మాట్లాడారు. సాంకేతిక సదస్సులు విద్యార్థుల్లో గుణాత్మకమైన భూమికను పోషిస్తాయన్నారు. ప్రస్తుత విద్యా రంగంలో శాస్త్ర సాంకేతికతను వాడుకుంటేనే ఉజ్వలమైన భవిష్యత్తు ఉంటుందని చెప్పారు. దేశ భవిష్యత్తు యువ ఇంజనీర్ల చేతుల్లోనే ఉందని స్పష్టం చేశారు. కిట్స్ కళాశాల ప్రిన్సిపల్ ప్రొఫెసర్ కె.అశోక్ రెడ్డి మాట్లాడుతూ.. విద్యార్థులు సూతన పరిశోధనలపై నిరంతరం కృషి చేయాలని కోరారు. కిట్స్ కళాశాల యాజమాన్య

సభ్యులు రాంరెడ్డి, ఆకారపు హరీష్, వి.ఇంద్రనీల్ మాట్లాడారు. స్టూడెంట్ అసెంబ్లీ డీన్ ప్రొఫెసర్ కె.శ్రీధర్ మాట్లాడుతూ వివిధ సాంకేతిక వర్క్ షాపుల్లో 718 మంది విద్యార్థులు తమ పేర్లను నమోదు చేసుకుని పాల్గొనడం ఆదీనం దనీయమన్నారు. కళాశాల విద్యార్థులు రూపొందించిన సావనీరుతో పాటు సీడీని కె.పెన్ లక్ష్మీకాంతరావు వేదికపై ఆవిష్కరించారు. ప్రొఫెసర్ కె.వి.రఘుబాబు, ఎస్.సునీల్ ప్రతాప్ రెడ్డి, విద్యార్థి ప్రసిడెంట్ పులి నర్సింహారెడ్డి, విద్యార్థి ప్రతినిధులు సన్ బేరమిడ్డా, విజయ్ వేణుగోపాల్, రిటైర్డ్ రెడ్డి, సుప్రూత్ రెడ్డి, అధ్యాపకులు పాల్గొన్నారు.

Date : 26/10/2019 EditionName : TELANGANA( WARANGAL, WARANGAL WEST ) PageNo : Page 06

# సాంకేతిక సృజనాత్మకతకే సదస్సులు

- రాజ్యసభ సభ్యుడు కె.పెన్ లక్ష్మీకాంతరావు
- కిట్స్ లో ప్రారంభమైన జాతీయ స్థాయి విద్యార్థి సదస్సు



సావనీరును విడుదల చేస్తున్న కె.పెన్ లక్ష్మీకాంతరావు

**హాసన్ పర్తి:** సాంకేతిక సృజనాత్మకతను ప్రదర్శించడానికి సదస్సులు ఓ వేదికగా ఉపయోగపడుతాయని రాజ్యసభ సభ్యుడు, కిట్స్ కళాశాల సెక్రటరీ కె.పెన్ లక్ష్మీకాంతరావు అన్నారు. వరంగల్ లోని కిట్స్ ఇంజనీరింగ్ కళాశాలలో జాతీయ స్థాయి విద్యార్థి సంపోజియం- 19 శుక్రవారం ప్రారంభమైంది. మూడు రోజుల పాటు జరిగే ఈ కార్యక్రమానికి కె.పెన్ లక్ష్మీకాంతరావు ముఖ్యఅతిథిగా పాల్గొన్నారు. ఈ సందర్భంగా ఆయన మాట్లాడుతూ సాంకేతిక కళాశాలలకు మంచి ఫలితాలు అందించడానికి సాంకేతిక సదస్సులు గుణాత్మక భూమిక పోషిస్తాయన్నారు. ప్రతి విద్యార్థి ప్రవృత్తినంతో పాటు సూతన

సాంకేతిక అంశాలపై ఎల్లవేళల జ్ఞాన సమపాఠ సమ సమకూర్చుకోవాలన్నారు. కళాశాల ప్రిన్సిపాల్ డాక్టర్ అశోక్ రెడ్డి మాట్లాడుతూ సాంకేతికతక ఉత్సవాలు కళాశాల నాణ్యత, అభివృద్ధికి కొలమానంగా పేర్కొన్నారు. స్టూడెంట్ అసెంబ్లీ డీన్ ప్రొఫెసర్ శ్రీధర్ మాట్లాడుతూ వర్క్ షాపుల్లో 718 మంది విద్యార్థులు పేర్ల నమోదు చేసుకున్నట్లు చెప్పారు. ఈ సందర్భంగా విద్యార్థులు సూతన ప్రాజెక్టులను ప్రదర్శించారు. కళాశాల యాజమాన్యవర్గ సభ్యుడు రాంరెడ్డి, హరీష్, ఇంద్రనీల్, ఐఎస్ టీఈ కిట్స్ చాప్టర్ చైర్మన్ ప్రొఫెసర్ కె.వి. రఘుబాబు, డాక్టర్ సునీల్ ప్రతాప్ రెడ్డి, విద్యార్థి ప్రెసిడెంట్ పులి నర్సింహారెడ్డి, మీర్జా, విజయ్, వేణుగోపాల్, రుక్మిణి రెడ్డి, సుహ్యాబ్ రెడ్డి, కార్తీక్, చైతన్య, ఉమర్, నిహారిక, సాయిచరణ్, నిఖిల్ రెడ్డి, వివేక్, పీఆర్ఎస్ డాక్టర్ ప్రభాకరాచారి తదితరులు పాల్గొన్నారు.

# కిట్స్ కళాశాలలో ముగిసిన సంశోభిని-2019

భీమారం, అక్టోబర్ 26 (ప్రభస్పృష్) వరంగల్ కిట్స్ ఇంజనీరింగ్ కళాశాలలో 8 విభాగాల విద్యార్థులు కలిసి గత మూడు రోజులుగా నిర్వహిస్తున్న జాతీయ స్థాయి సాంకేతిక సదస్సును సంశోభిని-2019 పేరున ముగించినట్లు కళాశాల ప్రెస్ నోట్ తెలిపారు. ఈ సందర్భంగా ఆయన మాట్లాడుతూ విద్యార్థి ఏదోక సాంకేతిక పరిజ్ఞానాన్ని నేర్చుకుని ఈ సదస్సులో ప్రదర్శించడంతో కిట్స్ కళాశాల అనే పదం జాతీయ స్థాయిలో మారుమోగిందన్నారు. ఇంజనీరింగ్ విద్యార్థులు ఎల్లప్పుడూ నూతన సాంకేతిక పరిజ్ఞానాన్ని నెమరువేసుకుంటూ ప్రాజెక్టు రూపకల్పన చేయాలన్నారు. మెకానికల్ విద్యార్థులు ఒక రాకెట్ ను తయారు చేసి ఎగురవేయగా అది 123

మీటర్ల ఎత్తుకు వెళ్లి తిరిగి నేలకు చేరిందని, అదేవిధంగా సివిల్ విద్యార్థులు వాటర్ హార్నిస్టింగ్, భూకంపాలను తట్టుకొని నిలబడే భవన నిర్మాణ పద్ధతులు కిడి ఫోర్ మోడలింగ్ ను టోస్ట్ విద్యార్థులు రోబోటిక్స్, ఇంటెల్లెట్ ఆఫ్ థింగ్స్, కంప్యూటర్ విద్యార్థులు సదస్సులో పాల్గొని వారికి వివరించారన్నారు. కిట్స్ అన్ని కళాశాల నుంచి మొత్తం విద్యార్థులు నాలుగువేల మందికి పైగా ఈ సదస్సులో పాల్గొంటారని స్టూడెంట్స్ అసోసియేషన్ ప్రా. కె. శ్రీధర్ అన్నారు. కార్యక్రమంలో ఐఎస్ఐ ఛైర్మన్ ప్రా. కె. రఘుబాబు, స్పాకల్ అడ్వైజర్ డా. సునీల్, ప్రకాష్ రెడ్డి, విద్యార్థి అధ్యక్షులు ఫులి నర్సింహారెడ్డి, పిఆర్. డా. ప్రభాకరచారి, అధ్యాపకులు, విద్యార్థులు తదితరులు



కిట్స్ అధ్యాపకులు, విద్యార్థులు పాల్గొన్నారు.

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# KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE

(An Autonomous Institute under Kakatiya University, Warangal)

(Approved by AICTE, New Delhi; Recognised by UGC under 2(f) & 12(B); Sponsored by EKASILA EDUCATION SOCIETY)

Opp : Yerragattu Gutta, Hasanparthy (Mandal), WARANGAL - 506 015, Telangana, INDIA.

కాకతీయ ప్రాచారిగికి ంవ్ విజ్ఞాన సంస్థాన, వరంగల్ - 506 015

కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, వరంగల్ - 506 015

NAAC - 'A' Grade accredited Institute (CGPA : 3.21)

MHRD NIRF-2019 Rank - 180

website: [www.kitsw.ac.in](http://www.kitsw.ac.in)

e-mail: [principal.kitswgl@gmail.com](mailto:principal.kitswgl@gmail.com)

☎ : +91 870 2564888

Cell : +91 73825 20585

## REPORT on Online National FDP

### 1- WEEK ONLINE FACULTY DEVELOPMENT PROGRAMME

Micro Grid, Electric Vehicles and Allied Areas – 2020  
(MGEVAA-2020)

1 – 5 June, 2020

Organized by

DEPARTMENT OF  
ELECTRICAL & ELECTRONICS ENGINEERING

IN ASSOCIATION WITH  
**ISTE - KITSW**

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# FDP BROCHURE

## ISTE Sponsored One Week Faculty Development Program (Online) on Micro Grid, Electric Vehicles and Allied Areas

1st- 5th June 2020

Organized by  
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

### ABOUT THE INSTITUTE:

Kakatiya Institute of Technology & Science (KITS), Warangal was established in 1980; affiliated to Kakatiya University, Warangal and it became Autonomous Institution under Kakatiya University w.e.f year 2014. It is one of the premier institutions in the state of Telangana. It has attracted academicians of proven competence onto its faculty, placed its products in reputed organizations all over the World and gained recognition amongst academic circles. The Institute aims to prepare the students for meeting the challenges of the growing and changing needs of industry through delivering high quality technical education blended with training and research. The institute is approved by All India Council for Technical Education (AICTE), Accredited by NAAC 'A' Grade with a CGPA of 3.21, MHRDs NIRF-2019 Rank-180 and all the UG Engineering programmes are accredited by National Board of Accreditation (NBA) New Delhi.

### ABOUT EEE DEPARTMENT:

The department of Electrical & Electronics Engineering (EEE) was established in the year 1994. The current intake in to UG program B.Tech (EEE) is 120 and PG program M.Tech (PE) is 18. The department is accredited by NBA under Tier - 1 in the year 2019. The department has dedicated and qualified faculty with 3 Professors, 6 Associate Professors, 21 Assistant Professors with 11 Doctorates, 04 Faculty members submitted PhD thesis and 08 pursuing Ph.D. in reputed Institutions/ Universities.

### ABOUT THE FDP:

Theme of the FDP:

As electricity is majorly produced from either renewable sources or from sources that emit no greenhouse gases thus EVs help in maintain energy by shifting dependence from non-renewable resources to renewable resources

The electrification of the public and private transportation sector is anticipated to yield significant upgrade in commercial and environmental benefits by evolving definite energy saving mechanism, which lessen the dependence on imported fuel and reduce the hazardous greenhouse gas emission. This chronicle amendment shifts the transportation towards the incorporation of battery powered electric vehicles into the distribution system and persuade adverse impacts on overall power quality. The control algorithms and optimization techniques play an important role in improving power quality and dynamics of distribution system.

### Tentative Topics:

1. Design and Implementation of 1-phase Micro Grid using Wind, Solar and Small Hydro
2. Battery management System for Evs
3. Wireless Charging of EVs
4. Advanced Power Electronics Applications in Aerospace, EV and Renewable Energy
5. Power System Optimization including Renewable Energy Sources
6. Advanced Control Systems and Power Quality Analysis

Resource persons from  
NITs, Foreign Universities and Industry

#### Chief Patron

Dr. Alluri Murthy Raju  
Chairman, KITS Warangal

#### Patrons

Capt. V. Lakshminantha Rao  
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#### Chairman

Dr. K. Ashoka Reddy  
Principal, KITS Warangal

#### Convener

Dr. C. Venkatesh  
Professor & HOD, EEED, KITSW

#### Coordinators

Dr. V. Rajagopal, Professor, EEED, KITSW

Dr. Sabha Raj Arya, Associate Professor, SVNIT Surat

#### Co-ordinators

Dr. A. Madhukar Rao, Asst. Professor, EEED, KITSW,  
9963902827(amr.eee@kitsw.ac.in)

Dr. D. Rakesh Chandra, Asst. Professor, EEED,  
KITSW, 9492442236 (drc.eee@kitsw.ac.in)

### No Registration Fee

#### Registration Link

<https://forms.gle/ZzvD9ow7YrHiAit8>

Number of participants are limited to 150

Registrations will be closed by 5:00PM on  
28-05-2020

Webinar links will be shared on 29-05-2020

Timings: 14:30 to 16:30

E-Certificate will be issued to participants  
who will attend for all 05 days sessions.



One Week Faculty Development  
Program (Online)

on

Micro Grid, Electric Vehicles and Allied  
Areas  
(MGEVAA-2020)

1<sup>st</sup>- 5<sup>th</sup> June 2020

Organized by

Department of Electrical & Electronics  
Engineering

KAKATIYA INSTITUTE OF TECHNOLOGY &  
SCIENCE WARANGAL

(An AUTONOMOUS Institute under Kakatiya University-Warangal)

Opp: Yerragattu Gutta, Hasanparthy (M),

Warangal-506015 (Telangana), INDIA.

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# FDP SCHEDULE


## ISTE Sponsored One Week Faculty Development Program (Online) on Micro Grid, Electric Vehicles and Allied Areas 1st- 5th June 2020










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**KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE WARANGAL**  
(An AUTONOMOUS Institute under Kakatiya University-Warangal)  
Opp: Yerragattu Gutta, Hasanparthy (M), Warangal-506015, Telangana, INDIA.

**ISTE Sponsored One Week Faculty Development Program (Online) on  
Micro Grid, Electric Vehicles and Allied Areas**  
1st- 5th June 2020  
Organized by  
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING




Day1	Day2	Day3	Day4	Day5
 <b>Dr. Mithun Bhaskar</b> <i>Head, Model Based Product Engg, Tata Elxsi, Trivandrum</i>	 <b>Dr. Sabha Raj Arya</b> <i>Associate Professor &amp; Coordinator SVNIT Surat</i>	 <b>Dr. Papia Ray</b> <i>Associate Professor VSSUT, Odisha</i>	 <b>Dr. Ujwal Kalla</b> <i>Associate Professor MANIT Bhoopal</i>	 <b>Dr. Kalpana Ramesh Babu</b> <i>Assistant Professor NIT Surathkal</i>
Topic <b>EV Retrofitting</b>	Topic <b>DVR and DSC with Battery Charging</b>	Topic <b>SPA for fault location in a T and D network</b>	Topic <b>Design and Implementation of 1-phase MG using Wind, Solar and Small Hydro</b>	Topic <b>BMS for EVs</b>
 <b>Dr. Raj Kumar Garg</b> <i>Associate Professor SLIE &amp; T Punjab</i>	 <b>Dr. Rajasekhar Reddy</b> <i>Assistant Professor SVNIT Surat</i>	 <b>Dr. S.N.Sharma</b> <i>Professor SVNIT Surat</i>	 <b>Dr. Surender Reddy</b> <i>Assistant Professor Woosong University, South Korea</i>	 <b>Dr. Sandeep Madishetti</b> <i>Research Scientist, EPGCERI, NTU, Singapore</i>
Topic <b>Recognition of PQ Disturbances</b>	Topic <b>Control And Synchronization of Grid Connected Multi-functional DGS</b>	Topic <b>Some Concepts in Advanced Control Systems</b>	Topic <b>Power System Optimization including RES</b>	Topic <b>APE Applications in Aerospace, EV and RE</b>
 <b>Day5</b> <b>Dr. Phaneendra Babu Bobba</b> <i>Professor, GRIET Hyderabad</i>				
Topic <b>Wireless Charging of EVs</b>				
<b>Organizing Committee</b>				
 <b>Dr. K. Ashoka Reddy</b> <i>Principal, KITSW Chairman</i>	 <b>Dr. C. Venkatesh</b> <i>Prof. &amp; HOD, EEED, KITSW Convener</i>	 <b>Dr. V. Rajagopal</b> <i>Professor, EEED, KITSW Coordinator</i>	 <b>Dr. D. Rakesh Chandra</b> <i>Asst. Professor, EEED, KITSW Co-Cordinator</i>	 <b>Dr. A. Madhukar Rao</b> <i>Asst. Professor, EEED, KITSW Co-Cordinator</i>

## Message by Principal and Head of the EEE Department

ISTE Sponsored One Week Faculty Development Program (Online) on  
**Micro Grid, Electric Vehicles and Allied Areas**

1st- 5th June 2020

Organized by  
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

### Message by Principal, Professor K. Ashoka Reddy



Lock down motivating us to go for virtual (online) workshops. In the present scenario online FDPs are playing a key role for learning and knowledge transferring. I personally congratulate the department of EEE for taking the lead and conducting this type of online FDPs. I am conveying my sincere thanks to all keynote speakers for coming forward to share their knowledge in this platform and I am also congratulating all participants for registering in this workshop.

### Message by HOD, EEE, Professor C.Venkatesh



In the coming days Electric Vehicles (EV) will play a vital role and at present researchers are also working on efficiency and feasibility of EVs. In the present day environment Microgrid is a buzz word which can also incorporate Renewable Energy Sources. I am congratulating coordinators for the initiation of the workshop and participants for showing interest towards this workshop. Thanks to ISTE-KITSW for providing technical support to this FDP.

## Message by Coordinators & Co - Coordinators

**Professor V. Rajagopal, Dr. Sabha Raj Arya,  
Dr. D. Rakesh Chandra & Dr. A. Madhukar Rao**



Micro Grid, Electric Vehicles and Allied Areas (MGEVAA - 20) is an online FDP conducted from 1st- 5th June 2020. There are 760 registrations for this FDP, out of that we could shortlist only 200 participants. The Participants include faculty and research scholars from prestigious Institutes like IISC and IITs and NITs and various good engineering Colleges across the country from 13 different states.

We had 11 speakers out of the 09 are national speakers and 02 are international speakers (out of that two are from industries). First day Dr. Mithun Bhaskar, MBD Head, Model Based Product Engg, Tata Elxsi, Trivandrum spoke on “xEV Autonomy, Retrofitting” and Dr. Raj Kumar Garg, Associate Professor, Sant Longowal Institute of Engineering & Technology, Punjab spoke on “Recognition of Power Quality Disturbances”. Second day Dr. Sabha Raj Arya & Coordinator, Associate Professor, SVNIT Surat spoke on “Control algorithms for Custom Power Devices and its Applications” and Dr. Rajasekhar Reddy, Assistant Professor, SVNIT Surat spoke on “Multifunctional Control and Grid Synchronization of VSI in Distributed Generation Systems”. Third day Dr. Papia Ray, Associate Professor, Veer Surendra Sai University of Technology, Odisha spoke on “Signal Processing Application for Fault Location in a Transmission and Distribution Network” and Dr. S.N.Sharma, Professor, SVNIT Surat, Gujarat spoke on “Four Problems in the Hamiltonian Jacobi-Bellman Equation”. Fourth day Dr. Ujwal Kalla, Associate Professor, MANIT Bhoopal spoke on “Design and Implementation of 1-phase Micro Grid using Wind, Solar and Small Hydro” and Dr. Surender Reddy, Associate Professor Woosong University, South Korea spoke on “Optimal Operation of Power System with Renewable Energy Sources” and Last and fifth day Dr. Phaneendra Babu Bobba, Professor, GRIET Hyderabad spoke on “Wireless Charging of EVs”, Dr. Kalpana Ramesh Babu, Assistant Professor, NIT Surathkal spoke on “Battery management System for EVs” and Dr. Sandeep Madishetti, Research Scientist, EPGC, ERI@NTU, Singapore spoke on “Advanced Power Electronics Applications in Aerospace, EV and Renewable Energy”.

I thank all the resource persons for agreeing and giving a lecture at this FDP. I thank Management, Principal, Prof. Ashoka Reddy and HOD EEE, Prof. C. Venkatesh for encouraging and guiding us to conduct this FDP. Thanks to ISTE-KITSW for providing technical support to this FDP. I also thank the Faculty of KITS Warangal, faculty and research scholars of other colleges attending this workshop. I also thank Mr. Ajith, Assistant Professor and Mr. Suresh Programmer DSL Lab for helping us for successful completion of FDP.

## SPEAKERS BIODATA

### Dr. Mithun Bhaskar:



**Dr. Bhaskar** is an influential engineering leader with a Ph.D in Computational Intelligence, known for leveraging emerging & disruptive technologies, build Centre of Excellences (COE's) to execute projects for products in multiple domains. 14 years of professional experience in leading MNCs and other organizations, with skills in creating physics based models, integrating testing with design, production code generation, rapid control prototyping and automating processes to accelerate development. Invited speaker at international and national seminars, author of technical papers and member of industry bodies such as IEEE, BIS and NIST.

Dr Bhaskar has built and managed 300+ world class Model based design embedded engineers at Tata Elxsi in multi disciplinary (Automotive, Rail, Avionics, Consumer Electronics, Medical Electronics & Robotics), multi geography BU's, delivering advanced embedded product design engineering services. The team has scaled up 525% with proportionate engagements in few years. He received IEEE MGA young Professionals Achievement Award for demonstrating leadership in 2012 and has submitted 5 patents.

### Dr. Raj Kumar Garg :



**Dr. Raj Kumar** received the B.E. degree in Electronics and Instrumentation Engineering fr

om Punjabi University, Patiala, India, in 1994, the M.Tech degree in Instrumentation and Control Engineering from Punjab Technical University, Jalandhar, India, in 2005, and the Ph.D. degree from Indian Institute of Technology Delhi, New Delhi, India, in 2016.

He is currently an Associate Professor with the Electrical and Instrumentation Engineering Department, Sant Longowal Institute of Engineering and Technology, Longowal, India. The institute was established by the Ministry Of Human Resource and Development (MHRD), Govt. of India. He has 20 Years of Teaching and 05 Years of industrial experience. His current research interests include power quality, digital signal processing, and process control systems.

### Dr. Sabha Raj Arya:



**Dr. Sabha Raj Arya** received Bachelor of Engineering degree in Electrical Engineering from Government Engineering College Jabalpur, in 2002, Master of Technology in Power Electronics from Motilal National Institute of Technology, Allahabad, in 2004 and Ph.D. degree in Electrical Engineering from Indian Institute of Technology (I.I.T) Delhi, New Delhi, India, in 2014. He is joined as Assistant Professor, Department of Electrical Engineering, Sardar Vallabhbhai National Institute of Technology, Surat. January 2019, he is promoted as Associate Professor in same institute. His

fields of interest include Power electronics, power quality, design of power filters and distributed power generation.

He received Two National Awards namely INAE Young Engineer Award from Indian National Academy of Engineering, POSOCO Power System Award from Power Grid Corporation of India in the year of 2014 for his research work. He is also received Amit Garg Memorial Research Award-2014 from I.I.T Delhi from the high impact publication in a quality journal during the session 2013-2014. At present, he has published more than *hundred* research paper in internal national Journals and conferences in field of electrical power quality.

He is also serving as an Associate Editor for the *IET (U.K.) Renewable Power Generation*.

### Dr. Rajasekhar Reddy:



**Dr. Rajasekhar Reddy** received the Bachelor's degree in electrical and electronics engineering from the Jawaharlal Nehru Technological University Hyderabad, India, in 2006, and the Ph.D. degree in electrical engineering from the Indian Institute of Technology Delhi, New Delhi, India, in 2014. From Nov. 2013 to Oct. 2014, he was with the department of electrical and computer engineering department, National University of Singapore (NUS), Singapore, where he worked as post-doctoral research fellow. From Dec. 2014 to Nov. 2019, he was with the department of electrical and computer

engineering department, Khalifa University of Science and Technology, Abu Dhabi, where he worked as post-doctoral research associate. Currently, he is with the Electrical Engineering Department, SVNIT, Surat, working as an assistant professor.

His research work has been published in various high quality academic journals and international conference proceedings. His research interests include voltage and frequency control of self-excited induction generators, power electronics applications in renewable energy systems, distributed power generation, power quality, and control of custom power devices and wireless power charging.

### Dr. Papia Ray:



**Dr. Papia Ray** is an Associate Professor at the Department of Electrical Engineering, Veer Surendra Sai University of Technology, Odisha, India. She completed her Ph.D. in the area of power system engineering at the Indian Institute of Technology, Delhi. Her current research area includes Power system protection, Power quality, Wide area measurement systems and application of soft computing techniques in power system protection. She is a senior member of IEEE, Life Member of Indian Society for Technical Education and Member of Institution of Engineer's India. She has published numerous papers in various international journals and conferences. She has produced one Ph.D. Recently She has written a book titled "Microgrid: Operation, Control, Monitoring and Protection", Springer Publisher. She is the recipient of Young Scientist Award from Department of Science and Technology, New Delhi in the year 2015.

### Dr. S.N.Sharma:



B.E. Electrical Engineering, Govt. Engineering College Rewa, M.P., India, M.Tech. Control Systems (Electrical Engineering), Institute of Technology, Banaras Hindu University (Presently IIT (BHU)), UP, India. Ph.D. Volterra and stochastic system theory, the University of Delhi, Delhi, India.

From 2000 to 2009 he worked with NSIT New Delhi (An Autonomous Institution of Govt. of NCT of Delhi) and From 2009 to till date he is with SVNIT Surat.

### Visiting academic appointment under the INSA

(1) Department of Systems and Control, Jozef Stefan Institute, Republic of Slovenia,  
May 20-June 20, 2018.

### Known for and selected contributions:

- (1) A stochastic system, 'The Sharma-Parthasarathy stochastic two-body problem'.
- (2) Higher-order filtering: We have developed higher-order Kushner filter and the result was published in International Journal of Control and Automatica.
- (3) Introduction of Stratonovich differential into non-linear dynamic circuits:

### Current research directions are the following:

- (1) Stochastic processes, dynamical systems and non-linear filtering
- (2) Multivariable Systems, Relative Normalized Gain Array, IMC Controllers
- (3) Volterra systems and IMC Volterra Controllers, specifically extending the notion of IMC controllers for non-linear systems using Carleman embedding

(4) Developing new perspectives in filtering and control

**He is Reviewer of Many Renowned Journals**

**He authored many quality Journals**

**Book Chapters**

Two articles (single Authored), two (double authored)

06 PhD thesis guided and guiding 06 PhD Students

Funding acquired (A) CSIR research Project (B) An MHRD Pedagogy project

**Dr. Ujwal Kalla:**



**Dr. Ujwal Kumar Kalla**

*Ph.D. (in Electrical Engg.) IIT Delhi, M.Tech. Power elect., Elect.*

*m/c & Drives (IIT Delhi) ,*

*Associate Editor of IET RPG, Fellow IETE (India), Fellow IEI*

*(India), Senior Member IEEE*

**Total Teaching Experience 18 Years**

**Currently working as Associate Professor,** Department of Electrical Engineering, **Maulana Azad National Institute of Technology, Bhopal (India)** An Institute of National Importance, Govt. of India

**Former Project Director, (April 2015 to February 2020)**

Ceramic Electrical Research Development Center, Bikaner (Rajasthan) India (An Autonomous Organization of Govt. of Rajasthan)

An N.A.B.L., Govt. of India, Accredited organization & **Former Head,** Department of Electrical Engineering, Govt. Engineering College Bikaner, (Rajasthan), India

**National Awards received during M.Tech. & Ph.D. for excellence in academics:**

1. National Award For Best M. Tech. Thesis of I.S.T.E. in Electrical and Electronics Engineering 2010". (**All India First Prize**) (cash award Rupees 10,000 and a certificate of Appreciation)

2. POSOCO Power System Award (in Doctoral Category) from FITT, IITD & POSOCO. (cash award Rupees 60,000 and a certificate of Appreciation)

3. GRIDTECH 2015 award of Power Grid and Ministry of Power (**All India First Prize**) in During PhD.

(cash award Rupees 1 Lac and a certificate of Appreciation)

- Patents Filled:-** 4 patents
- M.Tech Thesis Guided:** 35 (Awarded), 8 Under Progress
- Ph.D. Guided :** 1 (submitted) , 4 (In Progress),
- Google scholar Citations= 547, h - index papers=15, I 10-index papers =16,**

**Research Projects:**

1. **PI of Research Project** Titled :- "High performance PFC based LED Drivers working under Stringent AC Supply". Granted by C.P.R.I., Bangalore, G.O.I., **Grant Amount Rs 34.76 Lakh.** (completed in June 2019)

2. **PI of Research Project** Titled :- Design and Implementation of single phase Microgrid using renewable energy sources, Under Extra Mural Research Funding, of Central DST, G.O.I., **Grant Amount Rs 62.99 lakhs.** (in progress)



3. **PI of Research Project** Titled:- Design and Development of Electronic Load Controller for voltage and frequency control of Self Excited Induction Generators (SEIG) **Grant Amount 2.40 Lac.**

4. **CO-PI of Research Project** Titled:- Design, Development and Analysis of DC/DC converter Schemes using new types of efficient switching devices and magnetic materials for Improved maximum Power Extraction system from Solar PV Generation Systems , **Grant Amount 2.40 Lac.**

### **Dr. Surender Reddy:**



**Dr. Surender Reddy** received the Ph.D. degree in electrical engineering from Indian Institute of Technology, New Delhi, India, in 2013. He was a Postdoctoral Researcher at Howard University, Washington, DC, USA, from 2013 to 2014. He is currently working as an Associate Professor in the Department of Railroad and Electrical Engineering, Woosong University, Daejeon, Republic of Korea. He published 100+ international journal papers, and 20+ international conference papers.

His current research interests include power system restructuring issues, ancillary service pricing, real and reactive power pricing, congestion management, and market clearing, including renewable energy sources, demand response, smart grid development with integration of wind and solar photovoltaic energy sources, battery storage and electric vehicles, artificial intelligence applications in power systems, and power system analysis and optimization. He received Distinguished Researcher Award from Woosong University Educational Foundation, Republic of Korea in 2016, and POSOCO Power System Award (PPSA), India in 2013. He is a Member of IEEE and IEEE Power and Energy Society.

### **Dr. Phaneendra Babu Bobba:**



**Dr. Phaneendra** holds a Ph. D. from Indian Institute of Technology (IIT) Delhi India. He is presently working as a Professor in the Department of EEE at GRIET, Hyderabad, India. Prior to joining GRIET he worked as Assistant Professor in Shiv Nadar University. Dr. Phaneendra has published 35 publications in National and International Journals and Conferences. He is working as lead technical consultant to Asthra Projects and Master Pcb Pvt. Ltd. He is working on consultancy projects worth of 58 lakhs.

**Research Interests:** Electric Vehicles, Hybrid electric vehicles and Plug-in hybrid electric vehicles. • Hybrid Energy storage systems (Battery and Supercapacitor combination) • Power management systems in Electric vehicles. • Electric Drives, Power Electronics, DSP based control of Drives • Dynamic Wireless charging in supercapacitor based EVs. • Design of Wireless power transfer systems for Mobile and Medical Applications. • V2G and G2V communication / Smart Grid.

### Dr. Kalpana Ramesh Babu:



**Dr. R Kalpana** received B.Tech degree in Electrical and Electronics Engineering from Madras University, Chennai, Tamilnadu, India, in 1998, M.E. degree from Anna University, Chennai, Tamilnadu India, in 2000, and Ph. D degree from Indian Institute of Technology Delhi, India, in 2012. She is currently working as Assistant Professor at Department of Electrical Engineering, National Institute of Technology, Surathkal, India. She is a senior IEEE Member since 2018. She has publications in more than 20 in IEEE Journals and 50 National/International Conferences and filed 3 Indian patents. Her fields of interest are improved power quality converters, Renewable energy systems and Battery management systems.

### Dr. Sandeep Madishetti :



**Dr. Sandeep Madishetti** Received the PhD degree from IIT Delhi, in 2015, the M.Tech. degree in Power Electronics and Electrical Drives from S.V.NIT, Surat, in 2009, and the B.Tech. degree in Electrical and Electronics Engineering from Anurag Engineering College, Kodad, in 2007. After his completion of doctoral studies, he worked for two years at Rolls Royce @ Nanyang Technical University Corporate Lab, Singapore, as a Research Fellow. He is currently working as Research Scientist with Experimental Power Grid Center (EPGC), Singapore since 2017. Earlier EPGC was a Research Institute under A\*STAR, Singapore. In September 2019 EPGC merged with Energy Research Institute @ Nanyang Technological University (ERIAN).

His research interests include power electronics, electrical drives, power quality, more electric aircraft, distributed energy generation, renewable energy intermittency, smart grid, wide-bandgap devices, high power density converters, embedded control systems. He received POSOCO Power System Award (PPSA) 2015. His PhD thesis work stood top ten in Doctorial Category.

DATE: 01-06-2020  
TIME: 2.20 – 2.30pm

SESSION: I

TITLE: Inaugural

- Principal, Professor K. Ashoka Reddy has given a speech about the role of FDPs to improve technical skills and knowledge.

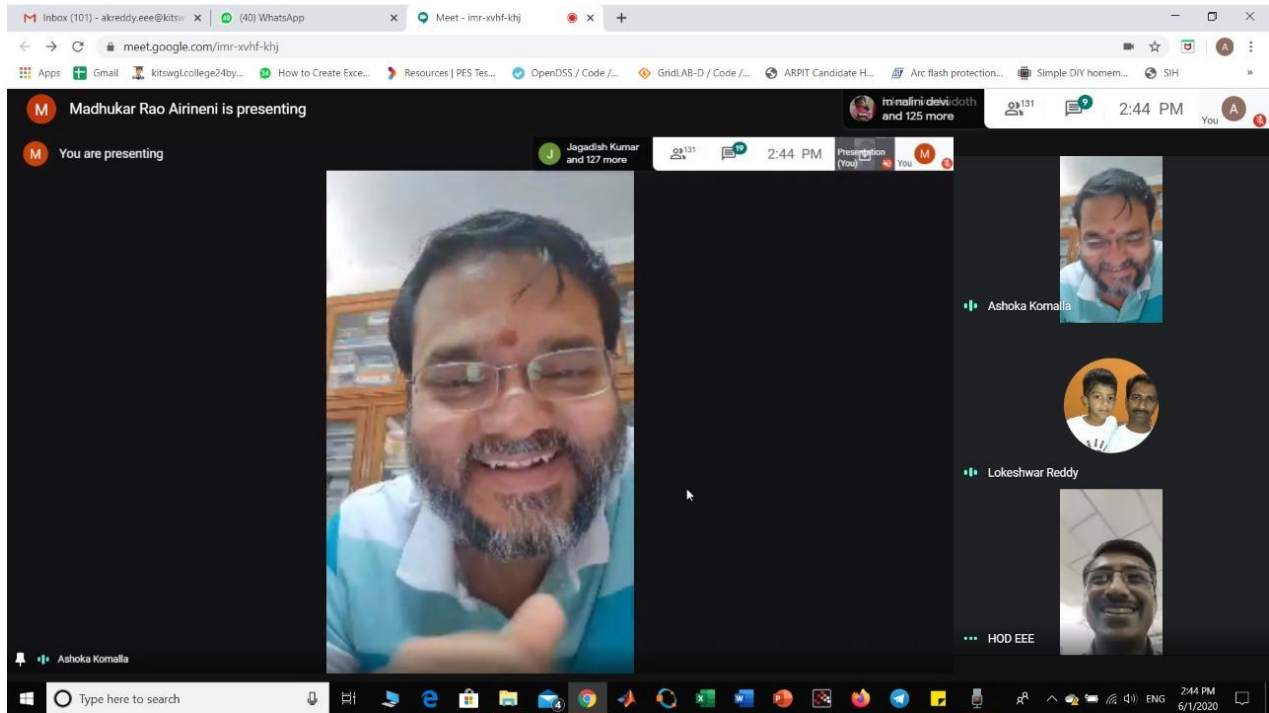


Photo I: Prof. K. Ashoka Reddy, while speaking in the inaugural

DATE: 01-06-2020

TIME: 2.30 – 3.30pm

SESSION: 1

TITLE: EV Retrofitting

RESOURCE PERSON: Dr. Mithun Bhaskar, *Head, Model Based Product Engg, Tata Elxsi, Trivandrum*

REPORT: In this session Dr. Mithun Bhaskar delivered the following points in his lecture.

- Vehicle supervisory control, Battery management, mathematical modeling and system modeling.
- Discussed Challenges in retrofitting
- Specifications of Electric vehicle
- Mechanical design and packaging and also vehicle dynamics.
- In Electrical design component selection, compatibility and controllability.
- Safety constraints such as battery cooling, motor cooling and emergency cutoff.
- Importance of Model based System Engineering
- Description of Vehicle to Everything (V2X) concept.

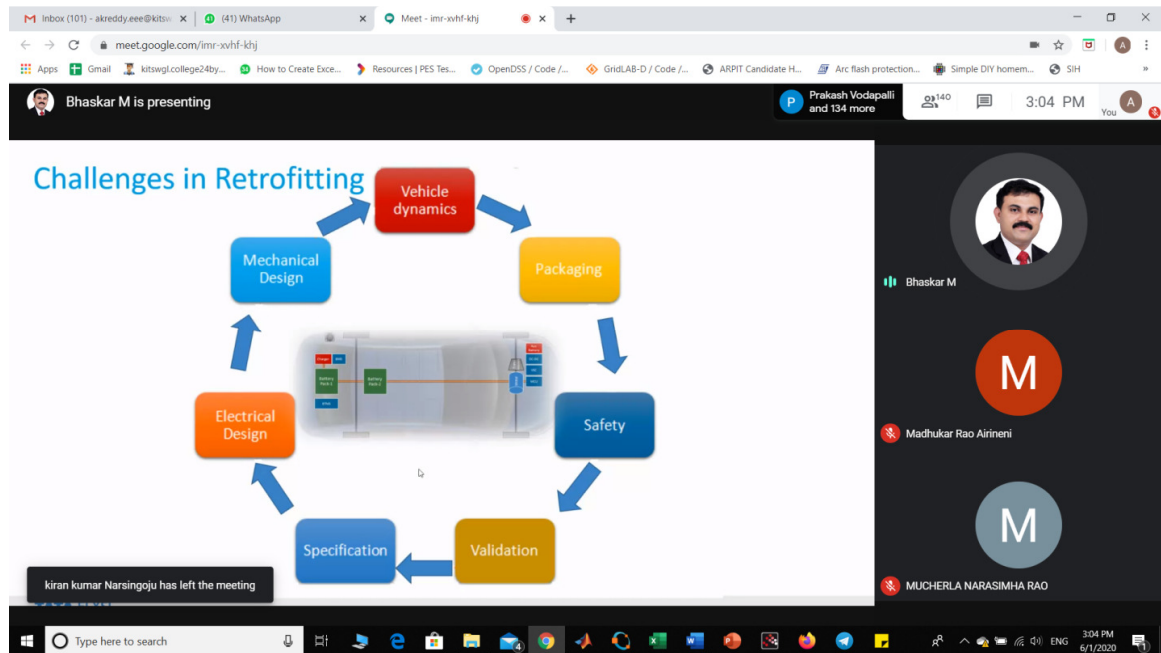




Photo 1: Dr. Mithun Bhaskar, while delivering the Lecture

lets get into EV first..

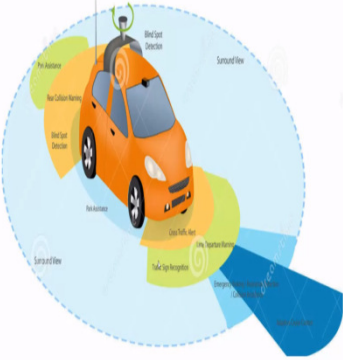
Lets focus on:

- Vehicle Supervisory Control
- Battery Management
- Motor Control
- Hybrid System Validation and Calibration
- Mathematical modelling
- System Modelling

3:03 PM

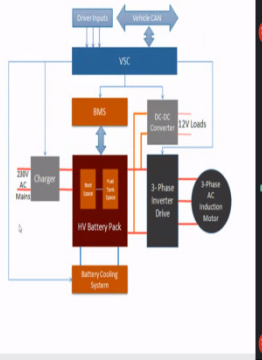
xEV + Autonomous Enabler: Sensors



3:03 PM

Electrical Design

- Component selection
- Minimal impact to user controls
- Compatibility and controllability
- Safety
  - Battery cooling
  - Motor cooling
  - Emergency cut-off
  - De-rating of performance
  - Protective covers
  - Supervisory control
  - FMEA and FIsa analyses



3:17 PM

High Performance Compute Platform

320 Trillion Operations Per Second ≈ 150 MacBook Pro

- Highly parallel computing
- Multi core heterogeneous architecture - CPUs, GPUs and FPGAs
- Less power consumption (<10W)
- Development framework support
- Functional safety compliance
- Portability



3:19 PM

Dr. Mithun Bhaskar session screen shots

DATE: 01-06-2020  
TIME: 3.30 – 4.30pm

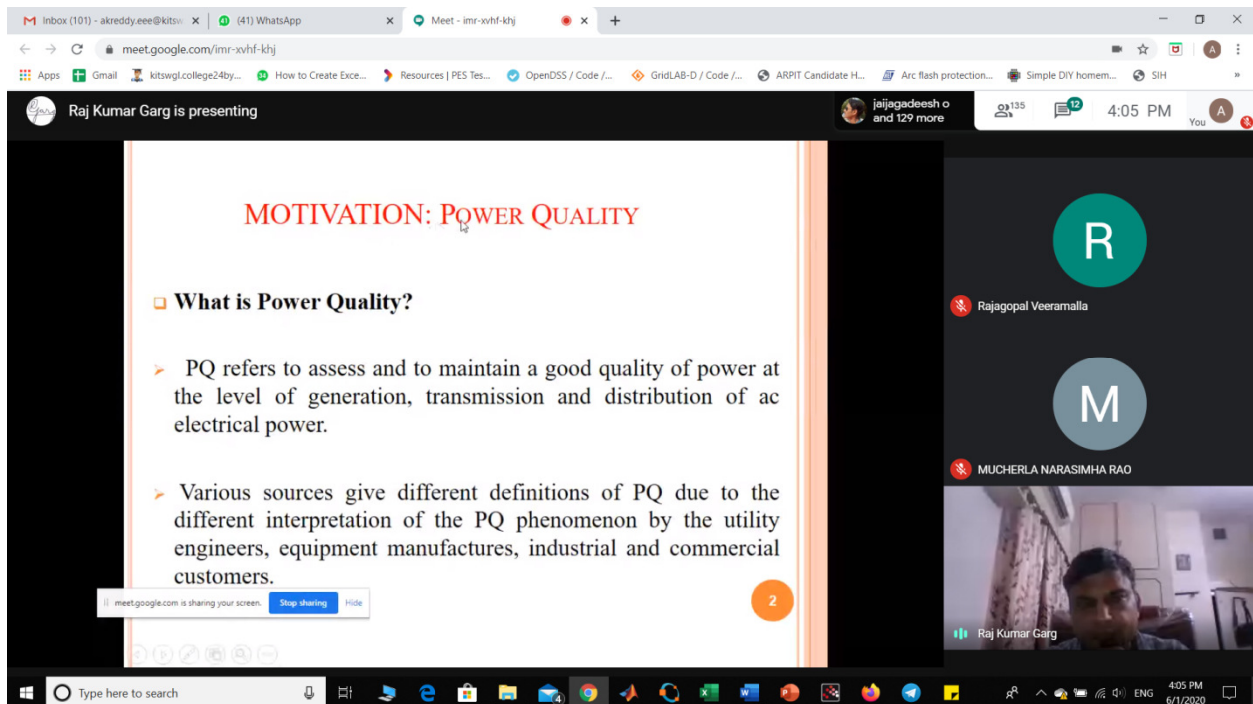
## SESSION: 2

**TITLE:** Recognition of Power Quality Disturbances

**RESOURCE PERSON:** Dr. Raj Kumar Garg, Associate Professor, Sant Longowal Institute of Engineering & Technology, Punjab

**REPORT:** In this session Dr. Raj Kumar Garg delivered the following points in his lecture.

- Definition of power quality and the significance of power quality
- Discussion on various power quality disturbances
- Classification of power quality disturbances
- What is the necessity of detecting power quality disturbances?
- Discussed power quality monitoring phenomena.
- Detailed discussion on stock well transformation.
- Purpose of S transform to analyze the sag, swell and harmonic disturbances.
- Flow chart for PQ disturbances classification.



**Photo 2:** Dr. Raj Kumar Garg, while delivering the Lecture

## POWER QUALITY DISTURBANCES

Disturbance category	Waveform	Effects	Possible causes
<b>1. Transient</b>			
Impulsive		Loss of data, possible damage, system halts	Lightning, ESD, switching impulses, utility fault clearing
Oscillatory		Loss of data, possible damage	Switching of inductive/capacitive loads
<b>2. Interruptions</b>			
Interruption		Loss of data possible, damage shutdown	Switching, utility faults, circuit breaker tripping, component failures
<b>3. Sag / undervoltage</b>			
Sag		System halts, loss of data, shutdown	Startup loads, faults
Undervoltage		System halts, loss of data, shutdown	Utility faults, load changes
<b>4. Swell / overvoltage</b>			
Swell		Noisance tripping, equipment damage/reduced life	Load changes, utility faults
Overvoltage		Equipment damage/reduced life	Load changes, utility faults

## PQ DISTURBANCES CLASSIFICATION [IEEE 1159 STANDARD]

Categories	Typical voltage magnitude	Typical spectral content	Typical duration
<b>1. Short duration variations</b>			
<b>1.1 Temporary</b>			
1.1.1 Sag	0.1-0.9 pu		3 s-1 min
1.1.2 Interruption	< 0.1 pu		3 s-1 min
1.1.3 Swell	1.1-1.2 pu		3 s-1 min
<b>1.2 Instantaneous</b>			
1.2.1 Swell	1.1-1.8 pu		0.5-30 cycles
1.2.2 Sag	0.1-0.9 pu		0.5-30 cycles
<b>1.3 Momentary</b>			
1.3.1 Sag	0.1-0.9 pu		30 cycles-3 s
1.3.2 Interruption	< 0.1 pu		0.5 cycles-3 s
1.3.3 Swell	1.1-1.4 pu		30 cycles-3 s

## POWER QUALITY MONITORING

- The whole chain from the measurement of analog voltages and currents in the power system to the statistical indices resulting from the post processing is referred to as power quality monitoring.
- The whole chain from the measurement of analog voltages and currents in the power system to the statistical indices resulting from the post processing is referred to as power quality monitoring.

## RESULT OF S-TRANSFORM FOR SWELL DISTURBANCE

Fig. (a) Voltage swell (b) Maximum amplitude versus time contour (c) Amplitude versus frequency (normalized) contour

Dr. Raj Kumar Garg session screen shots

SESSION: 3

TITLE: Dynamic Voltage Restorer, Distribution Static Compensator with Battery Charging

RESOURCE PERSON: Dr. Sabha Raj Arya, Associate Professor, SVNIT Surat

REPORT: In this session Dr. Sabha Raj Arya delivered the following points in his lecture.

- Description of three phase three wire and three phase four wire DSTATCOM
- How to select DC bus capacitor and voltage
- Explanation of designing ripple filter
- Adaptive neural network based control algorithm in three phase four wire system.
- Hard ware implementation of DSTATCOM has been demonstrated.
- Different topologies and methods of operation of DVR have been discussed.
- Simulation results of DVR with different PLLs have been analyzed.
- Experimental setup of DVR with three phase VSC based topology has been demonstrated.

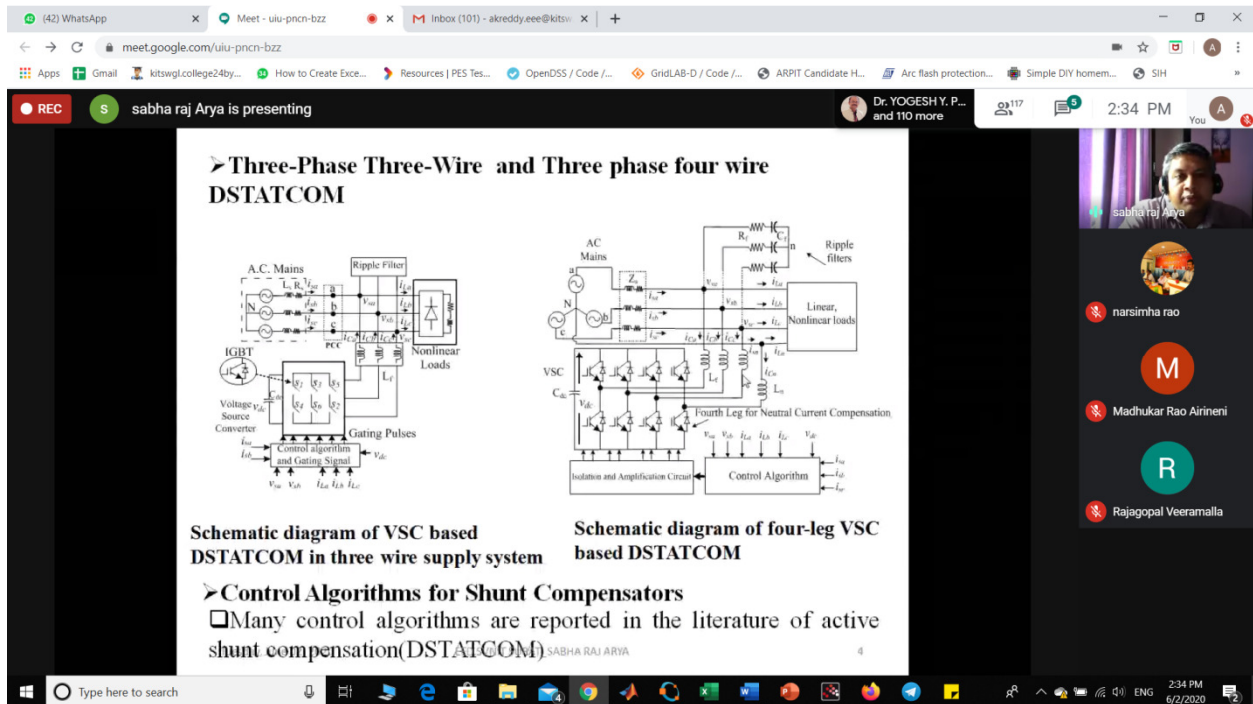


Photo 3: Dr. Sabha Raj Arya, while delivering the Lecture



Meeting: sabha raj Arya is presenting

### DSTATCOM

The application of shunt active filters in the distribution system which is used for mitigation of current related power quality problems.

- Function of DSTATCOM
  - Reactive power compensation,
  - Harmonic Suppression,
  - Load balancing
  - Neutral current compensation
- Mode of operation
  - Power Factor Correction
  - Zero Voltage Regulation

Configurations of Three-Phase DSTATCOMs

Configurations of Three-Phase DSTATCOMs

2:30 PM

Meeting: sabha raj Arya is presenting

### Design of DSTATCOM

#### Selection of VSC

Selection of VSC rating in three-phase three-wire system depends upon the compensation requirement such as reactive power, harmonics and load balancing.

For a considered load of 35kVA (0.8 lagging), the rating of the VSC for the reactive power compensation harmonics elimination is found to be 25 kVA (approximate 15% higher than the reactive power from rated value).

2:36 PM

Meeting: sabha raj Arya is presenting

2:49 PM

Meeting: sabha raj Arya is presenting

Fig. 6. Waveforms and harmonic spectra of (a) PCC voltage of phase 'a' (b) supply current of phase 'a' in PFC mode (c) load current of phase 'a' in PFC mode

3:05 PM

Dr. Sabha Raj Arya session screen shots

SESSION: 4

**TITLE:** Control and Synchronization of Grid Connected Multi-functional Distributed Generation System

**RESOURCE PERSON:** Dr. Rajasekhar Reddy, Assistant Professor, SVNIT Surat

**REPORT:** In this session Dr. Rajasekhar Reddy delivered the following points in his lecture.

- DG system with shunt and series compensation capabilities.
- Schematic diagram of single phase DG has been explained.
- Multiple ANC based filters structure has been discussed.
- Concept of compensating currents and estimation of compensating forces has been discussed.
- Hard ware implementation of DG inverter system has been demonstrated.
- Concept of multiple DG system s has been explained with reference to the schematic diagram.
- Discussion on multiple DG inverters with Ancillary services.
- Overall control diagram of single phase SPV- UAPF system has been discussed.

The screenshot shows a Google Meet window with a presentation slide. The slide title is "Low Voltage Ride Through Currents". The text on the slide describes the control algorithm during low voltage conditions, mentioning reactive current injection and active power reduction. It includes three mathematical equations labeled (16), (17), and (18), and a note about the quadrature phase template. The meeting interface shows the presenter as Raja Sekhar and a list of participants on the right.

**Low Voltage Ride Through Currents**

During low voltage condition, the control algorithm injects reactive current to aid grid recovery and reduces the active the active power generation to accommodate the LVRT current. Further, the control algorithm sets the compensating currents to zero. The magnitude of reactive current ( $I_Q^*$ ) to be injected by the inverters is computed based on the PCC voltage magnitude and according to grid codes.

$$I_Q^* = \begin{cases} 0, & \text{if } V_m \geq 0.9. \\ \frac{9}{4} \times (0.9 - V_m) \times \sqrt{2} I_r, & \text{if } 0.5 < V_m < 0.9. \\ 0.9 \times \sqrt{2} I_r, & \text{if } V_m \leq 0.5. \end{cases} \quad (16)$$

where  $V_m$  is PCC voltage in p.u. and  $I_r$  is inverter rated current.

$$I_{P_{lim}} = \sqrt{(\sqrt{2} I_r)^2 - I_Q^2}. \quad (17)$$
$$I_P^*(k) = \begin{cases} I_P^*(k), & \text{if } I_{P_{lim}}(k) \geq I_P^*(k). \\ I_{P_{lim}}(k), & \text{if } I_{P_{lim}}(k) < I_P^*(k). \end{cases} \quad (18)$$
$$i_{Q1}^* = -I_{Q1}^* \times \cos \omega_1 t \quad i_{Q2}^* = -I_{Q2}^* \times \cos \omega_1 t \quad (19)$$

where  $\cos \omega_1 t$  is the quadrature phase template of the fundamental PCC voltage.

**Photo 4:** Dr. Rajasekhar Reddy, while delivering the Lecture

System Configuration

Figure 1: Schematic of single-phase DG system.

Extraction of Harmonic and Reactive Currents

- Fig. 3 depicts the block diagram of adaptive noise cancellation (ANC) filter where it is used to extract the fundamental component of load current. The ANC filter has two inputs, namely phase angle ( $\theta$ ) and  $i_l$ . To obtain the  $\theta$  of fundamental PCC voltage ( $v_{pccf}$ ), a single-phase PLL is used and the output of PLL is applied to the ANC filter as shown in Fig. 3.

Figure 3: Block diagram of ANC filter.

- The currents  $i_{lf(p)}$  and  $i_{lf(q)}$  are obtained by multiplying  $W_{pf}$  and  $W_{qf}$  with  $\cos \theta$  and  $\sin \theta$ , respectively. Therefore, the weights  $W_{pf}$  and  $W_{qf}$  in the ANC filter represent the amplitudes of  $i_{lf(p)}$  and  $i_{lf(q)}$ , respectively.

Estimation of Compensating factors

Figure 6: Flow chart for estimating compensating factors.

Hardware Implementation

Figure 7: Experimental setup of grid-tied DG inverter system

Dr. Rajasekhar Reddy session screen shots

DATE: 03-06-2020  
TIME: 2.30 – 3.30pm

## SESSION: 5

**TITLE:** Signal processing application for fault location in a transmission and distribution network

**RESOURCE PERSON:** Dr. Papia Ray, Associate Professor, Veer Surendra Sai University of Technology, Odisha

**REPORT:** In this session Dr. Papia Ray delivered the following points in his lecture.

- Concept of Impedance measurement based method and travelling wave phenomenon base method.
- Usage of AI based methods for fault classification and location.
- Fault location identification on transmission and distribution line.
- Schematic diagram of entire protection scheme for fault classification and identification.
- Fault analysis procedure with Wavelet transforms has been discussed.
- Concept of Forward feature selection method has been discussed.
- Fundamentals of Genetic Algorithm (GA) and its usage for feature selection has been discussed.
- Fault location in a series compensated transmission line has been discussed.

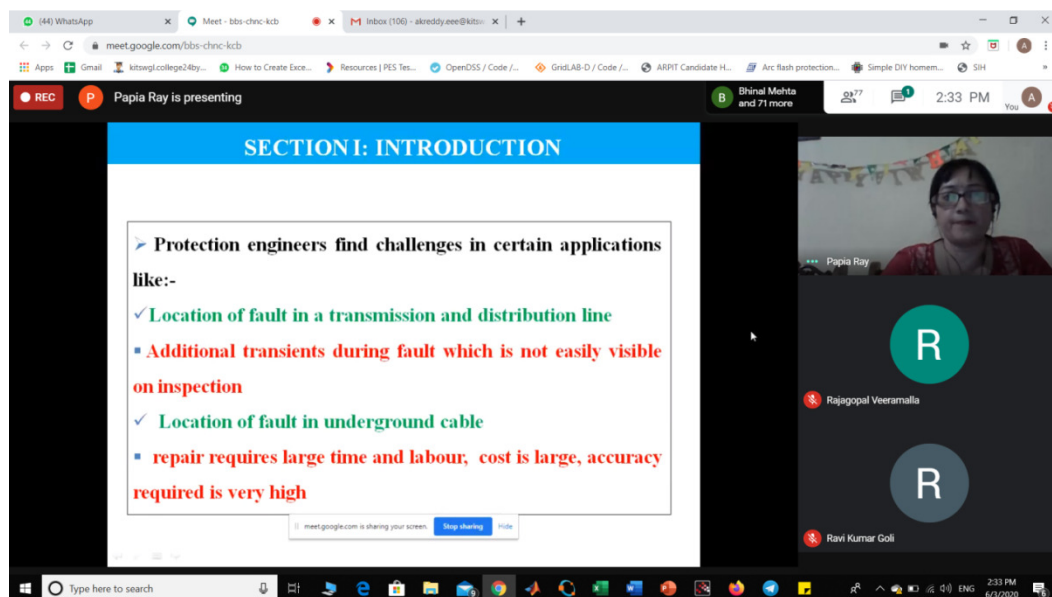


Photo 5: Dr. Papia Ray, while delivering the Lecture

SECTION I: INTRODUCTION

IMPORTANCE OF THE WORK IN THE PRESENT SCENARIO

- Fault must be located properly, otherwise the whole line has to be inspected by the maintenance crew to find the exact location of the fault.
- Proper location identifies the part of the transmission line that has been faulted and the patrolling vehicle of the transmission O&M agency can reach the spot at which the fault has occurred and take up repair/ correction activities without wasting any further time.
- Tripping of lines in an important transmission corridor can lead to reduced levels of power from one part of the country to the other (from a power-surplus area to a power starved area) and if important transmission lines trip, hunting of system, collapse of part or whole of the grid is also possible. So healthiness of lines and reduced outage of lines is very important and this is where fault locator plays a very important role.
- Proper rectification, evaluation of control strategies

SECTION - I

TECHNIQUES FOR TRANSMISSION LINE

- Impedance measurement based method
- Travelling wave phenomenon based method
- Artificial Intelligence (AI) based method/Statistical based approaches

For quite a few years, AI based methods are being used for fault classification and location.

- Three major AI based techniques have been widely used in the power industry
  - Expert system technique
  - Artificial neural network (ANN) based technique/SVM based method/Signal processing technique based method
  - Fuzzy logic system

SECTION I: HYBRID AI BASED METHOD

ENTIRE PROTECTION SCHEME FOR FAULT CLASSIFICATION & LOCATION

SECTION I: HYBRID AI BASED METHOD

FLOWCHART FOR PROPOSED FAULT LOCATION METHOD

Dr. Papia Ray session screen shots

## SESSION: 6

**TITLE:** Some Concepts in Advanced Control Systems

**RESOURCE PERSON:** Dr. S.N.Sharma, Professor, SVNIT Surat , Gujarat

**REPORT:** In this session Dr. S.N.Sharma delivered the following points in his lecture.

- First order problem description based on the differential equation.
- First problem in the Hamiltonian Jacobi Bellman equation.
- The constraints of State, Control and the performance measure are achieved using the bounds or inequalities.
- Four problems in the Hamiltonian Jacobi Bellman equation.
- The first step in using Hamiltonian Jacobi Bellman equation is to determine the admissible control.
- The control signal inequality implies the state constraint as well as performance measure inequality.
- Concept of Energy inequality has been discussed.

The screenshot shows a Google Meet window with a presentation slide. The slide title is "Four Problems in the Hamiltonian-Jacobi-Bellman Equation". The content includes:

- A little attention shows that the given problem has
 
$$\dot{x}_t = x_t + u_t, h(t_f, x_{t_f}) = \frac{1}{4} x^2(t_f), g(t, x_t, u_t) = \frac{1}{4} u^2(t).$$
- Consider the structure of the performance measure in the evolution form is
 
$$J(t, x_t, u(\tau))_{t_0 \leq \tau \leq t_f} = h(t_f, x_{t_f}) + \int_{t_0}^{t_f} g(\tau, x_\tau, u_\tau) d\tau.$$
- As after embedding the optimal control signal, we have the optimal performance measure
 
$$J^*(t, x_t) = h(t_f, x_{t_f}) + \int_{t_0}^{t_f} g(\tau, x_\tau, u^*(\tau)) d\tau.$$
- Now the Hamilton-Jacobi-Bellman equation for the specific form is a consequence of the general setting.
 
$$0 = J_t^*(t, x_t) + a(t, x_t, u_t) \quad (1)$$

The slide also shows a list of participants: Dr. S.N. Sharma(P-EED) SVNIT, Rajagopal Veeramalla, and Ravi Kumar Goli. The time is 4:03 PM on 6/3/2020.

**Photo 6:** Dr. S.N.Sharma, while delivering the Lecture

Dr. S.N. Sharma(P-EED) SVNIT is presenting

## First problem in the Hamiltonian-Jacobi-Bellman Equation

1. A first-order system is described by the differential equation  $\dot{x}_t = x_t + u_t$ , where  $x_t$  and  $u_t$  the state and control signal respectively. It is described to find the control that minimizes the performance measure

$$J = \frac{1}{4}x^2(T) + \int_0^T \frac{1}{4}u^2(t)dt.$$

**Solution:**

- Here the problem is the optimal control that does not account for the constraints on the state, control and performance measure.
- The constraints on the state, control and the performance measure are achieved using the bounds or inequalities.

Dr. S.N. Sharma(P-EED) SVNIT is presenting

## Four Problems in the Hamiltonian-Jacobi-Bellman Equation

and  $\frac{\partial}{\partial u_t}(g(t, x_t, u(t)) + J_x^*(t, x_t, u_t)) = \frac{\partial}{\partial u_t} g(t, x_t, u(t)) + J_x^*(t, x_t) \frac{\partial}{\partial u_t} a(t, x_t, u_t)$

- After embedding  $\dot{x}_t = x_t + u_t, h(t, x_t) = \frac{1}{4}x^2(t), g(t, x_t, u_t) = \frac{1}{4}u^2(t)$ .
- in the above equation, we get  $\frac{u(t)}{2} + J_x^*(t, x_t) = 0$ .
- Alternatively  $u^*(t) = -2J_x^*(t, x_t)$ . (2)
- After combining equation (2) and the input argument of the min function of equation (1) and considering the specific system of the given performance, we

Dr. S.N. Sharma(P-EED) SVNIT is presenting

## Four Problems in the Hamiltonian-Jacobi-Bellman Equation

And

$$\min_{u(t)} \left( -\frac{1}{4}u^2(t) + J_x^*(t, x_t)(x_t + u_t) \right) = \frac{1}{4}u^2(t) + J_x^*(t, x_t)(x_t + u_t^*) = -J_x^{*2}(t, x_t) + J_x^*(t, x_t)x_t$$

(3)

- From equations (1) and (3), the Hamilton-Jacobi Bellman equation for the specific case boils down to  $0 = J_t^*(t, x_t) - J_x^{*2}(t, x_t) + J_x^*(t, x_t)x_t$ .
- And the final value of the optimal performance measure is  $J^*(t_f, x_{t_f}) = h(t_f, x_{t_f}) + \int_{t_f}^{t_f} g(\tau, x_\tau, u_\tau^*)d\tau$ .

Dr. S.N. Sharma(P-EED) SVNIT is presenting

## Four Problems in the Hamiltonian-Jacobi-Bellman Equation

4.

- Consider the system  $\dot{x}_t = a(x(t), u(t), t)$  which is to be controlled to minimize some performance measure. The admissible state and control values are bounded and in addition, the control must satisfy the total energy constraint  $\int_{t_0}^{t_f} u^2(t)dt \leq M$ .

M is a specified number. Can this problem be solved by applying the dynamic programming.

**Solution:-**

- Since the problem is optimal control, as well as invokes restrictions on the control signal.

Dr. S.N. Sharma session screen shots

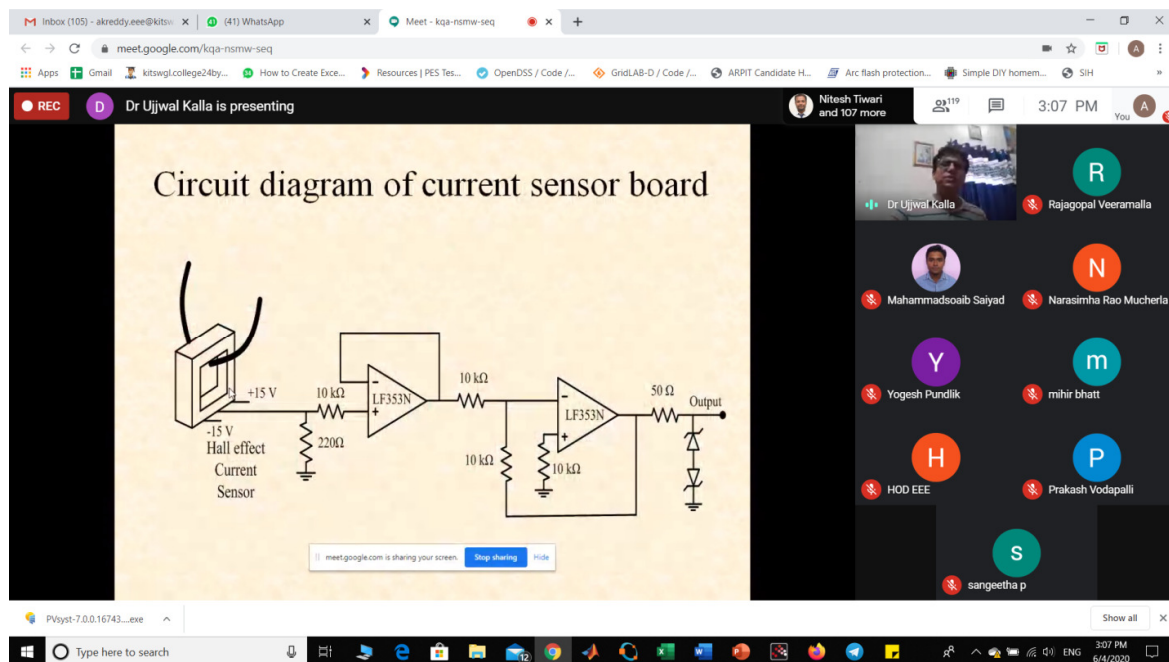
## SESSION: 7

**TITLE:** Design and Implementation of 1-phase Micro Grid using Wind, Solar and Small Hydro

**RESOURCE PERSON:** Dr. Ujwal Kalla, Associate Professor, MANIT Bhopal

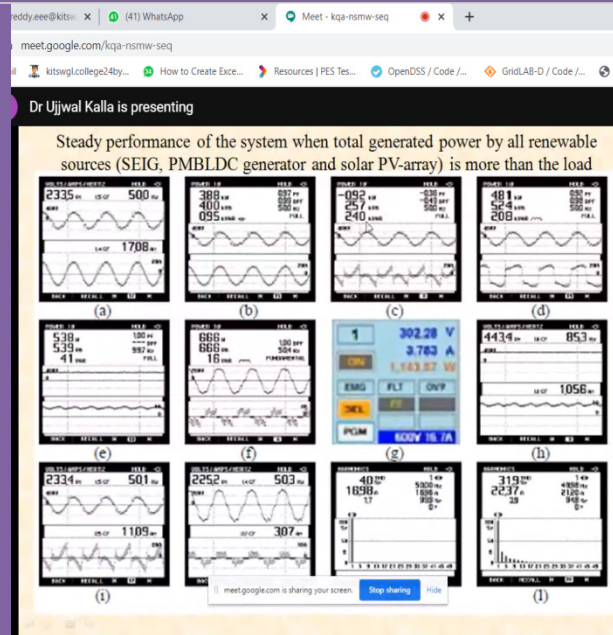
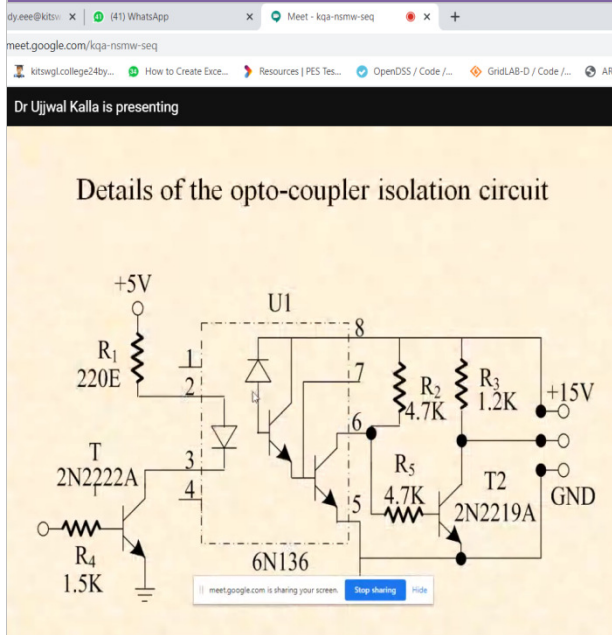
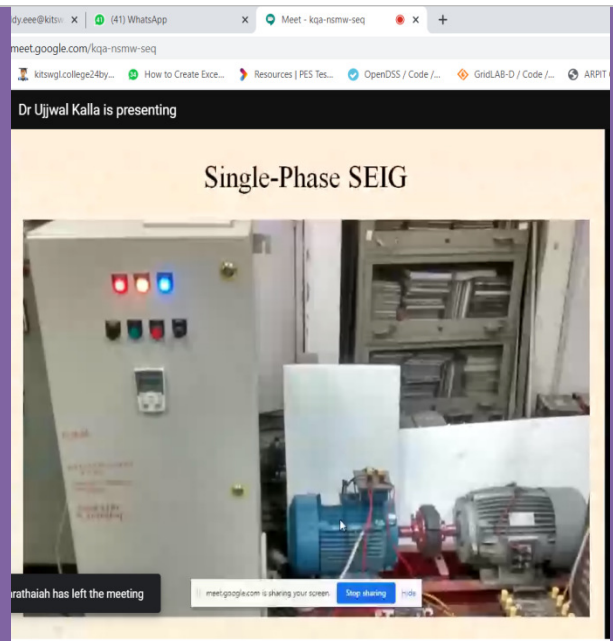
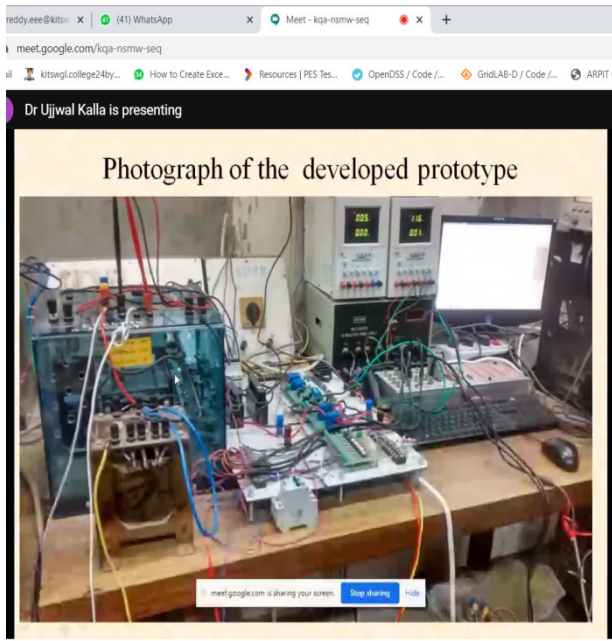
**REPORT:** In this session Dr. Ujwal Kalla delivered the following points in his lecture.

- Fundamental concepts of Microgrid discussed.
- Hard ware implementation of developed prototype has been explained.
- Concept of non linear load consisting of a bridge rectifier, resistive load bank and inductive load bank has been explained.
- Circuit diagram description of current circuit board and voltage sensor board has been discussed.
- Block diagram of Adaptive Sliding Mode Control (ASMC) based algorithm of VSC-BESS Microgrid system description.
- Dynamic performance of the SEIG output voltage, output current, PV array output current and battery current.
- Explained how SEIG based stand alone Microgrid integrates renewable energy sources.



**Photo 7:** Dr. Ujwal Kalla, while delivering the Lecture





Dr. Ujwal Kalla session screenshots

DATE: 04-06-2020  
TIME: 3.30 – 4.30pm

SESSION: 8

**TITLE:** Power System Optimization including Renewable Energy Sources

**RESOURCE PERSON:** Dr. Surender Reddy, Associate Professor, Woosong University, South Korea

**REPORT:** In this session Dr. Surender Reddy delivered the following points in his lecture.

- Fundamental concepts of optimal power flow have been discussed.
- The impact of wind power uncertainty in the OPF problem has been explained.
- Energy & Spinning reserves cost minimization as one of the objectives.
- System risk level minimization as another objective.
- Probability density function and load forecast uncertainty model.
- Equality and inequality constraints for optimization problems.
- Concept of total cost minimization with uncertainty in wind generation.
- Case studies on IEEE 30 bus system for considering models are explained.

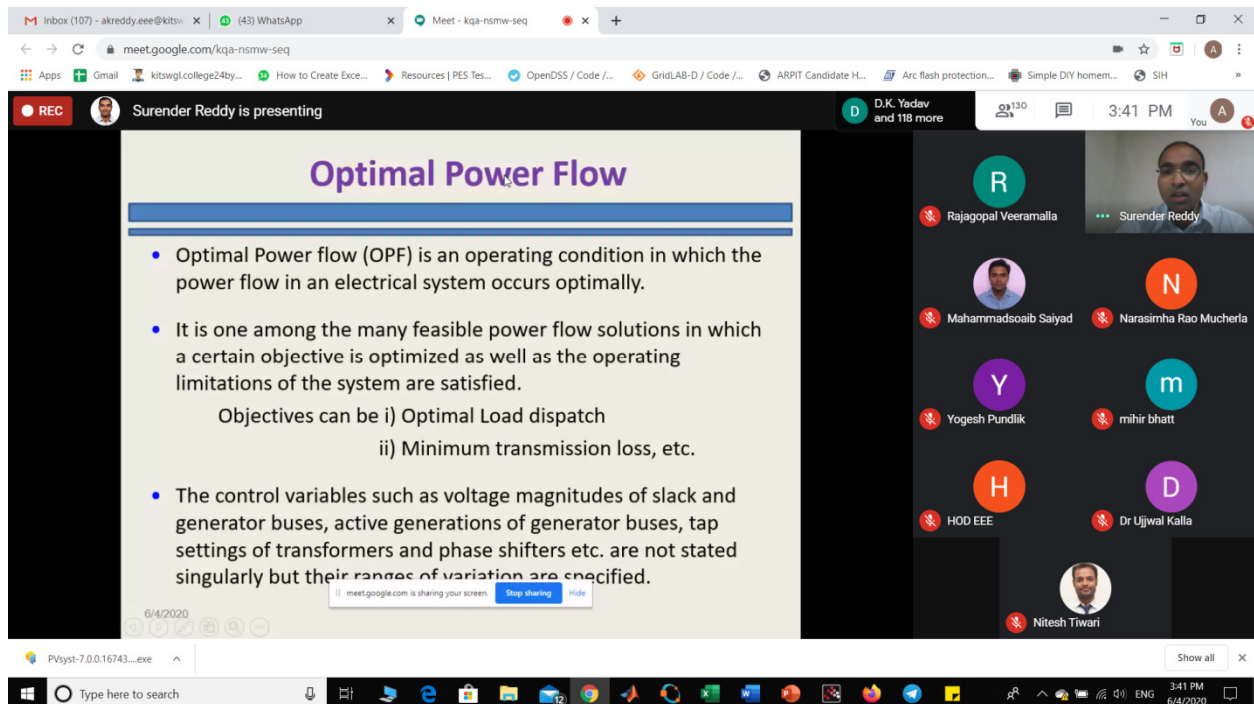


Photo 8: Dr. Surender Reddy, while delivering the Lecture

Surender Reddy is presenting

## Optimal Power Flow

Mathematically,

Minimize  $J(x,u,p)$   
 Subject to  $g(x,u,p)=0 \quad \dots 1$   
 $h(x,u) \leq 0 \quad \dots 2$

$x^T = [\delta, V]$

$u^T = [V_{G_1} \dots V_{G_{NG}}, P_{G_1} \dots P_{G_{NG}}, T_1 \dots T_{NT}, Q_{C_1} \dots Q_{C_{NC}}]$

'p' is specified variable

Equation (1) is set of Load flow equations

Equation (2) meet.google.com is sharing your screen. [Stop sharing](#) [Hide](#)

Surender Reddy is presenting

## Market Clearing Considering Uncertainties

- Wind & load forecast uncertainties require additional reserves to be procured and if required deployed, in real time. This involves both procurement costs as well as activation costs.
- Traditionally, the SR requirement has been based on protection against the loss of the largest online generator.
- Deterministic approaches does not consider the uncertainties in wind power and load forecasts.
- But, these uncertainties must be taken into account while determining the requirements for spinning reserve.

6/4/2020

3...exe

re to search

Surender Reddy is presenting

## Load forecast uncertainty model

- The future system load is uncertain at any given time.
- Normal PDF is used to model load distribution.
- The PDF of the normal distribution for uncertain load 'l' is

$$f_l(l) = \frac{1}{\sigma\sqrt{2\pi}} \exp\left[-\left(\frac{l-\mu}{2\sigma^2}\right)^2\right]$$

6/4/2020

3...exe

re to search

Surender Reddy is presenting

## Constraints for ESRMC

- Total SR requirement has been based on protecting the system against outage of the largest online generator, reserve requirement due to wind generation and load uncertainties.

$$TSR_{req} = P_{G_{largest}} + \sum_{j=1}^{Nw} (P_{wj} - P_{wj,av}) + \sum_{k=1}^{NL} (P_{Dk} - P_{Dk,av})$$

- In **Model 1**, total SRs are provided by online thermal generators

$$\sum_{i=1}^{NG} P_{SRi} = TSR_{req}$$

- In **Model 2**, total SRs are provided by online thermal generators and demand-side reserves

$$\sum_{i=1}^{NG} P_{SRi} + \sum_{k=1}^{NL} P_{shd,k} = TSR_{req}$$

6/4/2020

43...exe

re to search

Dr. Surender Reddy session screen shots

SESSION: 9

TITLE: Wireless Charging of EVs

RESOURCE PERSON: Dr. Phaneendra Babu Bobba, Professor, GRIET Hyderabad

REPORT: In this session Dr. Phaneendra Babu Bobba delivered the following points in his lecture.

- Main features of WPS system have been explained.
- Comparison between conductive and inductive charging has shown.
- Concept of static wireless charging of Electric Vehicles (EVs).
- Concept of dynamic wireless charging of Electric Vehicles (EVs).
- Standards and specifications for wired and wireless powered EVs.
- Basic schematics of different WPT techniques.
- Need for compensation topologies and different compensation topologies have been discussed.
- Designing of wireless charging systems has been described.

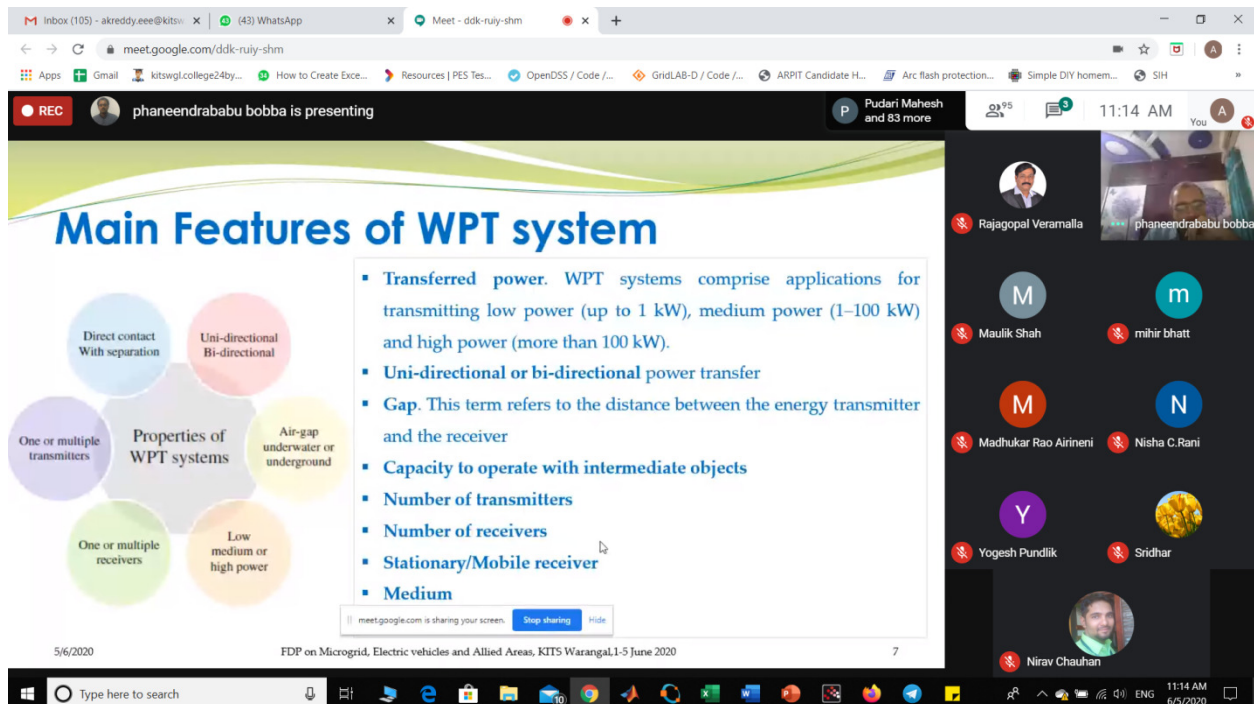


Photo 9: Dr. Phaneendra Babu Bobba, while delivering the Lecture

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phaneendrababu bobba is presenting

## Introduction

Examples of modern movable things that need seamless electric power

A general classification of power transfer in terms of mobility, distance, and means of powering.

5/6/2020 FDP on Microgrid, Electric vehicles and Allied Areas, KITS Warangal, 1-5 June 2020 5

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phaneendrababu bobba is presenting

## Factors effecting WPTs

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phaneendrababu bobba is presenting

## Static wireless charging of EVs

SWC Representation

SWC schematic along with DC-DC efficiency

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phaneendrababu bobba is presenting

## Dynamic wireless charging of EVs

Basic representation of a single loop track

Basic representation of segmented transmitter tracks

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Dr. Phaneendra Babu session screen shots

## SESSION: 10

**TITLE:** Battery Management System for EVs

**RESOURCE PERSON:** Dr. Kalpana Ramesh Babu, Assistant Professor, NIT Surathkal

**REPORT:** In this session Dr. Kalpana Ramesh Babu delivered the following points in his lecture.

- Significance and challenges to Lithium batteries have been explained.
- Lithium ion cells configuration in series and parallel combination.
- Charging and discharging of Lithium ion batteries.
- Batteries definition interns of voltage and Capacity.
- Definition and Essence of Battery Management System.
- Concept of battery equivalent circuit modeling.
- Battery State estimation and State Of Charge (SOC)
- DC resistance based SOH estimation technique explanation.

**Battery Equivalent circuit Modeling**

Resistive battery model or steady state model

Dynamic Thevenin Model

✓With this type of model, the step changes in the voltage captured are represented with the internal ohmic resistance ( $R_s$ )

✓The exponential decay of the voltage response is captured with the RC branches.

05-06-2020  
Suprabha Padiyar U., Research scholar, Reg. No.: 197517, EEE  
Department, NITK, Surathkal

REC K Kalpana Ramesh is presenting

Mr. C.Radha Ch... and 103 more

3:03 PM

bhavesh patel raj nomula

Madhukar Rao Airineni Subhash Bochu

Maulik Shah Kalpana Ramesh

Yogesh Pundlik Mahammadsoab Saity

Thiruvonasundari Uraisamy

3:03 PM 6/5/2020

**Photo 10:** Dr. Kalpana Ramesh Babu, while delivering the Lecture

Battery Storage System

Parameters	Lithium -Ion	Lead Acid
Light on Weight	typically weigh one-third less	Weighs more
Heavy on Power	50% more energy	Less energy
Highly Efficient	super-low resistance and 95% efficiency	80-85%
Ultra Long Life	batteries cycle 5,000 times or more	Lead-acid batteries typically deliver only 300-500 cycle
Usable energy	80%	50%
Voltage per cell	3.6V	2V
Cost	More	less
Maintenance Requirements	Basic annual Maintenance	Regular Maintenance every 3 months

A lot of people are here. The people list shows them all. [View all](#)

LITHIUM Battery Challenges

- ✓ **Expensive to manufacture** - about 50 % higher in cost than lead acid batteries.
- ✓ **Protection required** - Requires protection circuit to maintain voltage and current within safe
- ✓ **Sensitivity to high temperature** - Overheating or overcharging causes the cells or packs of this battery to degrade faster.
- ✓ **Subject to aging effect** - even if not in use - storage in a cool place at 40% charge.
- ✓ **Transportation restrictions** - shipment of larger quantities may be subject to regulatory control. This restriction does not apply to personal carry-on batteries.

Raja Sekhar has left the meeting

Basics of Battery

Li-Ion cells in series connection

- Portable equipment needing higher voltages use battery packs with two or more cells connected in series.
- Each Cell of 3400mAh;  $3400\text{mAh} = 3.4\text{Ah}$
- A battery pack with four 3.6V Li-ion cells in series, also known as 4S, to produce 14.4V nominal
- In comparison, a six-cell lead acid string with 2V/cell will generate 12V, and four alkaline with 1.5V/cell will give 6V.

05-06-2020 Department of electrical and electronics, NITK, Surathkal 14

How a lithium-ion battery charges and discharges ?

- Lithium-ion uses a cathode (positive electrode), an anode (negative electrode) and electrolyte as conductor.
- The cathode is metal oxide and the anode consists of porous carbon.
- When the cell charges and discharges, ions shuttle between cathode and anode.
- During discharge, the ions flow from the anode to the cathode through the electrolyte and separator; charge reverses the direction and the ions flow from the cathode to the anode.

05-06-2020 Department of electrical and electronics, NITK, Surathkal 18

Dr. Kalpana Ramesh Babu session screen shots

DATE: 05-06-2020  
TIME: 3.30 – 4.30

SESSION: 11

**TITLE:** Advanced Power Electronics Applications in Aerospace, EV and Renewable Energy

**RESOURCE PERSON:** Dr. Sandeep Madishetti, Research Scientist, EPGC, ERI@NTU, Singapore

**REPORT:** In this session Dr. Sandeep Madishetti delivered the following points in his lecture.

- EPGC core capabilities explained with the help of a schematic diagram.
- Aircraft electrification market and description of various Aircrafts.
- The concept of electric power in Aircraft and power system architecture in Aircraft.
- Explained various research areas in Aircraft Power system.
- Different types of Electric Vehicles.
- Concept of BEV architecture with schematic diagram.
- SiC and GaN power components for BEV and PHEV.
- Explanation on high power density and high efficient converters.

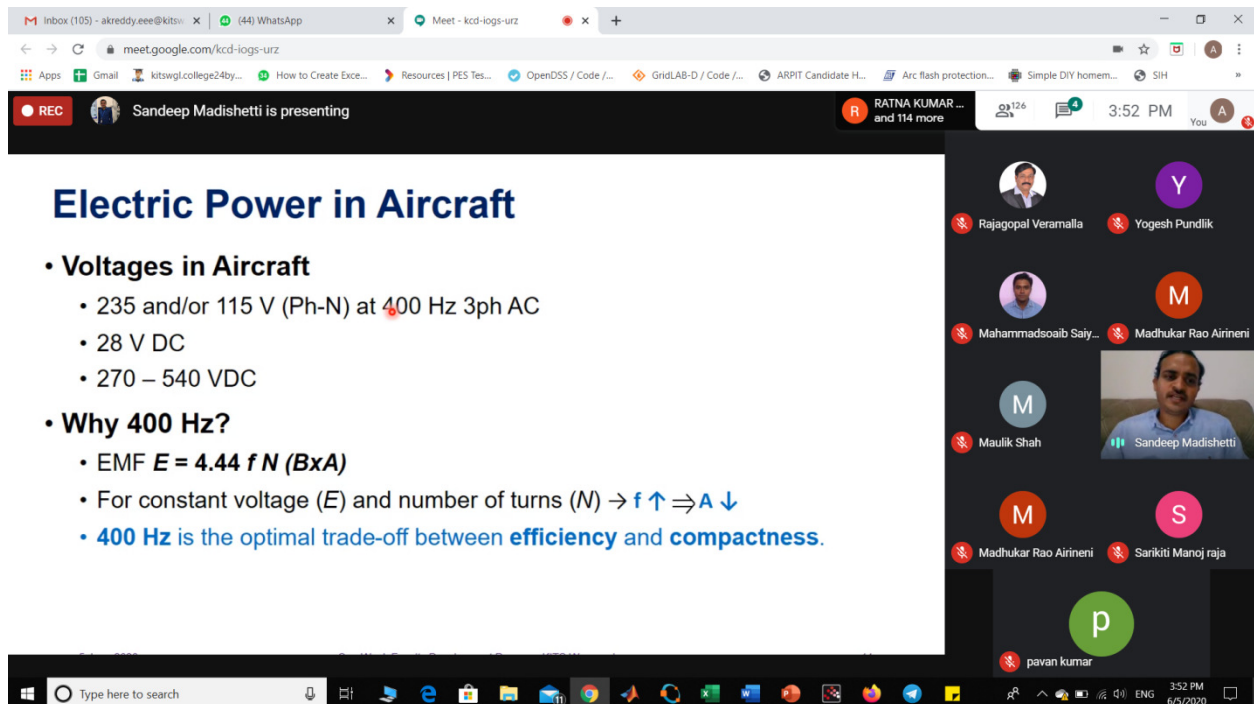


Photo 11: Dr. Sandeep Madishetti, while delivering the Lecture



### EPGC Core Capabilities

**2014**  
**Thermal Grid/ CHP**  
 - Electrical-thermal grid  
 - Thermal energy storage

**2011**  
**1MW Experimental Grid**  
 - Real Time Simulator  
 - Simulation of large electrical networks - HIL testing

**2013**  
**Real Time Simulator**  
 - Simulation of large electrical networks - HIL testing

**2015**  
**IBEEMS Testbed**  
 - Green Building solutions

**2017**  
**500kW Motor Testbed**  
 - Flexible platform for testing of motors/ generators/ converters/ inverters/ transformers/ electrical drives

**200kW ESS Testing Platform**  
 - Testing for various ESS technologies, inverters and controllers

### Current More Electric Aircrafts

**Boeing 787**

**AIRBUS A380**

**F-35 FIGHTER JET**

pavan kumar has left the meeting

### Aircraft Power System Architecture

**Aircraft Engine** → **Syn Generator** → 235 V (Ph-N), 350-800 Hz, 3-Ph AC

Outputs:

- ±270 V DC
- 28 V DC
- 115 V AC (Ph-N), 400 Hz, 3-Ph AC
- 235 V (Ph-N), 350-800 Hz, 3-Ph AC CVVF

Various **Power Electronic** converters (DC-DC, DC-AC, AC-DC) are used from generation to the in-flight entertainments.

### GaN based AC-DC Converter for Aircraft

- AES PS2500 Switch Mode Power Supply
  - Input: 96-130 VAC/360 Hz – 800 Hz,
  - Output: 28 VDC, 42 A (1200W)
  - PF: 0.98,
  - Efficiency: **91.5%** (11.5% more than the Si equivalent)
  - Weight: 4kg
  - Used in CS-25 airplane manufacturers (e.g., Airbus A318-A321, A330, A340, A380 and Boeing B767, B787 VIP aircraft)

Dr. Sandeep Madishetti session screen shots

DATE: 05-06-2020  
TIME: 4.30 - 4.45pm

## SESSION: II

**TITLE:** Valedictory

- Principal, Professor K. Ashoka Reddy has congratulated all the participants, Coordinators and convener for successful completion of FDP.



Prof. K. Ashoka Reddy, while speaking in the Valedictory

**ISTE Sponsored One Week Faculty Development Program (Online) on  
Micro Grid, Electric Vehicles and Allied Areas  
1st- 5th June 2020  
Organized by  
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING  
List of Participants**

Email Address	NAME OF THE PARTICIPANT IN BLOCK LETTERS	Designation of the Participant	Name of the Institute / Organization	Whatsapp Mobile number	Certificate Number
202chandar@gmail.com	BHANUCHANDAR	Research Scholar	NIT Warangal	9652447125	KITSW/EEED/FDP /MGEVAA20/P001
abhiantham@gmail.com	ABISHEKERREDDY ANTHAM	Assistant Professor	Kamala institute of technology and science	9951887772	KITSW/EEED/FDP /MGEVAA20/P002
amr.eee@kitsw.ac.in	Dr.A.Madhukar Rao	Assistant Professor	KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL	9963902827	KITSW/EEED/FDP /MGEVAA20/P003
anshvarshney@gmail.com	ANSHUL VARSHNEY	Research Scholar	IIT Delhi	9711489895	KITSW/EEED/FDP /MGEVAA20/P004
aravinddprec@gmail.com	ARAVINDA SWAMY KONDA	Assistant Professor	MRCET, UGC AUTONOMOUS SECENDRABAD	7382715484	KITSW/EEED/FDP /MGEVAA20/P005
archana.pothuganti@gmail.com	ARCHANA POTHUGANTI	Assistant Professor	Vaagdevi College Of Engineering Bolikunta Warangal	7981664742	KITSW/EEED/FDP /MGEVAA20/P006
arulkumarme@gmail.com	ARULKUMAR.P	Associate Professor	Balaji Institute of Technology and Science, Warangal	9842654673	KITSW/EEED/FDP /MGEVAA20/P007
devivighneshwari@gmail.com	B.DEVI VIGHNESHWARI	Associate Professor	The Oxford College of Engg	9342129484	KITSW/EEED/FDP /MGEVAA20/P008
subashbochu@gmail.com	B.SUBHASH	Associate Professor	CITS (T.S.)	9866576101	KITSW/EEED/FDP /MGEVAA20/P009
goldeneagle.raj87@gmail.com	BURRA BALA RAJU	HEAD OF SECTION / EEE	V M R POLYTECHNIC : RAMPUR :: WARANGAL	9849270631	KITSW/EEED/FDP /MGEVAA20/P010
cv.eee@kitsw.ac.in	CHALLA VENKATESH	Professor	Kakatiya Institute of Technology and Science, Warangal	9440031922	KITSW/EEED/FDP /MGEVAA20/P011
sunilkumar.ch@bvrithyderabad.edu.in	CHAVA SUNIL KUMAR	Professor	BVRIT HYDERABAD College of Engineering for Women	9440545949	KITSW/EEED/FDP /MGEVAA20/P012
pavan24eee@gmail.com	CHAVALI PAVAN KUMAR	Assistant Professor	Sree Vahini Institute of Science & Technology Tiruvuru	9440870802	KITSW/EEED/FDP /MGEVAA20/P013
cheralu.333@gmail.com	CHERALU BAKKA	Assistant Professor	Kamala Institute of Technology&Science, Singapur, Huzurabad.	9849185158	KITSW/EEED/FDP /MGEVAA20/P014
gutha26@gmail.com	Dr G NAVEEN KUMAR	Associate Professor	Andhra Loyola Institute of Engineering and Technology	7981178039	KITSW/EEED/FDP /MGEVAA20/P015
goli.raviprakash@gmail.com	Dr G RAVI KUMAR	Professor	Bapatla Engineering College	9492466110	KITSW/EEED/FDP /MGEVAA20/P016
gsn.anusree@gmail.com	Dr GOTURU SREENIVASAN	Professor	Srinivasa Ramanujan Institute of Technology, Anantapur, AP	9440760073	KITSW/EEED/FDP /MGEVAA20/P017
lsrlingineni@yahoo.co.in	Dr L SHANMUKHA RAO	Professor	KALLAM HARANADHAREDDY INSTITUTE OF TECHNOLOGY, GUNTUR, ANDHRA PRADESH	9440372593	KITSW/EEED/FDP /MGEVAA20/P018

mssivagamasundari@gmail.com	Dr M S SIVAGAMA SUNDARI	Assistant Professor	Amrita College of Engineering and Technology, Nagercoil	6383966254	KITSW/EEED/FDP /MGEVAA20/P019
gr.eee@kitsw.ac.in	Dr RAJENDAR GOGU	Associate Professor	KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE WARANGAL	9849570620	KITSW/EEED/FDP /MGEVAA20/P020
ramdeshmukh@gmail.com	Dr Ram Deshmukh	Professor	SR Engineering College	9704955020	KITSW/EEED/FDP /MGEVAA20/P021
bairuvijaykumar@gmail.com	Dr. B. VIJAY KUMAR	Associate Professor	KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE WARANGAL	9963310059	KITSW/EEED/FDP /MGEVAA20/P022
bhinal.pdpu@gmail.com	Dr. BHINALKUMAR BAKULBHAI MEHTA	Assistant Professor	Pandit Deendayal Petroleum University	9427045058	KITSW/EEED/FDP /MGEVAA20/P023
reddy.lokeshwar@gmail.com	Dr. CH. LOKESHWAR REDDY	Professor	CVR COLLEGE OF ENGINEERING	9701114325	KITSW/EEED/FDP /MGEVAA20/P024
dkyadav@rtu.ac.in	Dr. DINESH KUMAR YADAV	Associate Professor	Rajasthan Technical University Kota	9414453513	KITSW/EEED/FDP /MGEVAA20/P025
sekhararao_eee@mvsrec.edu.in	Dr. E.V.C.SEKHARA RAO	Associate Professor	Maturi Venkata Subba Rao (MVSR) Engineering College. Hyderabad	9290448153	KITSW/EEED/FDP /MGEVAA20/P026
venumadhavjee@cvsr.ac.in	Dr. GOPALA VENU MADHAV	Professor	ANURAG GROUP OF INSTITUTIONS VENKATAPUR GHATKESAR	9848749953	KITSW/EEED/FDP /MGEVAA20/P027
kintalisuneeta@gmail.com	Dr. K SUNEETA	Associate Professor	JB Institute of Engineering and Technology	9398549836	KITSW/EEED/FDP /MGEVAA20/P028
rayudukaturi@gmail.com	Dr. KATURI RAYUDU	Professor	BVRIT -NARSAPUR	9959599839	KITSW/EEED/FDP /MGEVAA20/P029
ajaykumar@aliet.ac.in	Dr. M. AJAY KUMAR	Associate Professor	Andhra Loyola Institute of Engineering and Technology, Vijayawada	9491827298	KITSW/EEED/FDP /MGEVAA20/P030
sridhar@iare.ac.in	Dr. PATTHI SRIDHAR	Professor	Institute of Aeronautical Engineering, Hyderabad	8886023000	KITSW/EEED/FDP /MGEVAA20/P031
ujjaval58@rediffmail.com	Dr. Ujjaval Patel	Assistant Professor	Adani Institute of Infrastructure Engineering	9879879746	KITSW/EEED/FDP /MGEVAA20/P032
vrg.eee@kitsw.ac.in	Dr. V.RAJAGOPAL	Professor	KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE WARANGAL	9392114063	KITSW/EEED/FDP /MGEVAA20/P033
sudheavv@gmail.com	Dr. VEERA VENKATA SUDHAKAR ANGATHA	Associate Professor	S R Engineering College, Warangal	9000708123	KITSW/EEED/FDP /MGEVAA20/P034
rajendrababu77@gmail.com	Dr. Y. RAJENDRA BABU	Professor	PSCMRCET, Vijayawada (A. P)	9290509415	KITSW/EEED/FDP /MGEVAA20/P035
sailajacvss@gmail.com	Dr.Ch.V.S.S.Sailaja	Associate Professor	Vasavi College of Engineering, (T.S.)	8121981253	KITSW/EEED/FDP /MGEVAA20/P036
gnrgudipudi@gmail.com	Dr.G.NAGESWARA RAO	Professor	Lakireddy Bali Reddy College of Engineering	9247876900	KITSW/EEED/FDP /MGEVAA20/P037
ninjarap@gitam.edu	Dr.I E SANYASI NAIDU	Associate Professor	GITAM Institute of Technology, Visakhapatnam	9.1944E+11	KITSW/EEED/FDP /MGEVAA20/P038
kathirvelee@srec.ac.in	Dr.Kathirvel Chinnasamy	Associate Professor	Sri Ramakrishna Engineering College	9994903511	KITSW/EEED/FDP /MGEVAA20/P039
kappagantulasubbu@gmail.com	Dr.KBVS SUBRAHMANYAM	Associate Professor	S R ENGINEERING COLLEGE, WARANGAL	9949746279	KITSW/EEED/FDP /MGEVAA20/P040

mjeesan07@gmail.com	Dr.M.JEGADEESAN	Associate Professor	K.L.N.COLLEGE OF ENGINEERING	9003776136	KITSW/EEED/FDP /MGEVAA20/P041
sarulakumar.bvts@bvcgroup.in	Dr.S.ARULKUMAR	Professor	BVCITS AMALAPURAM	9962360136	KITSW/EEED/FDP /MGEVAA20/P042
kumaranjay@gmail.com	Dr.Sanjay Kumar	Associate Professor	Centurion University of Technology and Management,Odisha,India	9559226232	KITSW/EEED/FDP /MGEVAA20/P043
nireekshana_t@vnrvtjiet.in	Dr.Turaka Nireekshana	Associate Professor	VNR Vignana Jyothi Institute of Engineering and Technology	9703013127	KITSW/EEED/FDP /MGEVAA20/P044
sv.padmavathi@gmail.com	Dr.VENKATA PADMAVATHI S	Assistant Professor	GITAM School of Technology, GITAM Deemed to be University,Hyderabad campus	9948016232	KITSW/EEED/FDP /MGEVAA20/P045
venufacts20m@gmail.com	Dr.VENUGOPAL DUGYALA	Associate Professor	KITS, Singapuram,(T.S)	9989418188	KITSW/EEED/FDP /MGEVAA20/P046
yogesh4037@rediffmail.com	Dr.YOGESH YASHWANT PUNDLIK	Professor	KAMALA INSTITUTE OF TECHNOLOGY AND SCIENCE, SINGAPUR-505468	9701167259	KITSW/EEED/FDP /MGEVAA20/P047
durgamrajababu@gmail.com	DURGAM RAJABABU	Associate Professor	S R Engineering College	9949501190	KITSW/EEED/FDP /MGEVAA20/P048
gs.eee@kitsw.ac.in	G SUDHEER KUMAR	Associate Professor	KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE WARANGAL	9923951236	KITSW/EEED/FDP /MGEVAA20/P049
rajalaxmi3@gmail.com	GUJJIGA RAJALAXMI	Assistant Professor	Tirumala Engineering College,Keesara,Bogaram,RR dist	6303314208	KITSW/EEED/FDP /MGEVAA20/P050
muralimallika@gmail.com	J Easwara Muralidhar	Associate Professor	Muffakhamjah College of Engineering and Technology	9866277830	KITSW/EEED/FDP /MGEVAA20/P051
jaijagadeesho@gmail.com	JAI JAGADEESH O	Assistant Professor	Proudhadevaraya Institute of Technology Hosapete	7813808537	KITSW/EEED/FDP /MGEVAA20/P052
njktry78@gmail.com	JAYAKUMAR . N	Associate Professor	The Oxford College of Engineering ,Bangalore	8050837275	KITSW/EEED/FDP /MGEVAA20/P053
jkumbhare04@gmail.com	JYOTI KUMBHARE	Assistant Professor	Yeshwantrao Chavan College of Engineering Nagpur (YCCE NAGPUR)	9850759324	KITSW/EEED/FDP /MGEVAA20/P054
katta040@gmail.com	K SRINIVASA RAO	Assistant Professor	Bharat institute of engineering and technology	9989181305	KITSW/EEED/FDP /MGEVAA20/P055
sadanandam4u@gmail.com	KADASI SADANANDAM	Assistant Professor	JNTUH COLLEGE OF ENGINEERING MANTHANI	8801470305	KITSW/EEED/FDP /MGEVAA20/P056
maheshkanneboina21@gmail.com	KANNEBOINA MAHESH	Assistant Professor	TKR college of engineering and technology	9912765583	KITSW/EEED/FDP /MGEVAA20/P057
srinivaskaratlapelli@gmail.com	KARATLAPELLY SRINIVAS	Assistant Professor	Warangal institute of technology and science	9866636472	KITSW/EEED/FDP /MGEVAA20/P058
karthi2eee@gmail.com	KARTHIKEYAN V	Assistant Professor	ADHIYAMAAN COLLEGE OF ENGINEERING	8300088814	KITSW/EEED/FDP /MGEVAA20/P059
nishanthkatam@gmail.com	Katam Nishanth	Research Scholar	IISc Bangalore	9441843624	KITSW/EEED/FDP /MGEVAA20/P060
akreddy.eee@kitsw.ac.in	KATANGURI AJITH	Assistant Professor	Kakatiya Institute of Technology and Science Warangal	9573327223	KITSW/EEED/FDP /MGEVAA20/P061
gouda402@rymec.in	LINGANAGOUDA R	Assistant Professor	RYM Engineering college Ballari	9844580222	KITSW/EEED/FDP /MGEVAA20/P062
mnalinidevi_eee@mgit.ac.in	M NALINI DEVI	Assistant Professor	Mahatma Gandhi Institute of Technology, Hyderabad, Telangana	9908011263	KITSW/EEED/FDP /MGEVAA20/P063

surendar206@gmail.com	M SURENDAR	Assistant Professor	UCET&W, KAKATIYA UNIVERSITY, WARANGAL	9701574896	KITSW/EEED/FDP /MGEVAA20/P064
san.eee@kitsw.ac.in	M. SANTHOSH	Assistant Professor	KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE WARANGAL	8008886804	KITSW/EEED/FDP /MGEVAA20/P065
msp.eee@kitsw.ac.in	M.SPANDANA	Assistant Professor	KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE WARANGAL	9618081288	KITSW/EEED/FDP /MGEVAA20/P066
snehal.malvi@sal.edu.in	Malvi Snehalkumar Vadilal	Assistant Professor	Sal Institute of Technology and Engineering Research	9722781468	KITSW/EEED/FDP /MGEVAA20/P067
maulikniki@gmail.com	MAULIK J. Shah	Assistant Professor	CSPIT, CHARUSAT	9978441457	KITSW/EEED/FDP /MGEVAA20/P068
imranmohammad5555@gmail.com	MD IMRAN	Assistant Professor	VAAGESWARI COLLEGE OF ENGINEERING	9490581093	KITSW/EEED/FDP /MGEVAA20/P069
jawahar.a@pec.edu	Mr A JAWAHAR	Research Scholar	Pondicherry Engineering College	7702743855	KITSW/EEED/FDP /MGEVAA20/P070
boyinaguruseshu015@gmail.com	Mr BOYINA GURUSESHU	Assistant Professor	PRAKASAM ENGINEERING COLLEGE KANDUKUR	9573776499	KITSW/EEED/FDP /MGEVAA20/P071
srisailamgnitc@gmail.com	Mr CH SRISAILAM	Assistant Professor	GURU NANAK INSTITUTION TECHNICAL CAMPUS	9949747806	KITSW/EEED/FDP /MGEVAA20/P072
srvaneesra@gmail.com	Mr PALARAPU SRAVAN KUMAR	Assistant Professor	Bharat Institute Of Engineering And Technology , Ibrahimptnam	9666645035	KITSW/EEED/FDP /MGEVAA20/P073
suresh.aldhandi@gmail.com	Mr. A. SURESH	Assistant Professor	Chaitanya Institute of Technology and Science	9912783105	KITSW/EEED/FDP /MGEVAA20/P074
avr17482@gmail.com	Mr. ALLU VENKATA RAVI KUMAR	Assistant Professor	DVR & Dr.HS MIC College of Technology	9032988733	KITSW/EEED/FDP /MGEVAA20/P075
parsumeetme@gmail.com	Mr. B. PARASURAM	Associate Professor	Bheema Institute of technology & sciences, ADONI	9052119956	KITSW/EEED/FDP /MGEVAA20/P076
bhaveshele99@gmail.com	Mr. BHAVESH SHANKARBHAI PATEL	Assistant Professor	GIDC DEGREE ENGINEERING COLLEGE ABRAMA,NAVSARI	9033331505	KITSW/EEED/FDP /MGEVAA20/P077
dina4karan@gmail.com	Mr. C DINAKARAN	Assistant Professor	Audisankara College of Engineering & Technology, Gudur	9701605825	KITSW/EEED/FDP /MGEVAA20/P078
dinakaransank@gmail.com	Mr. C DINAKARAN	Assistant Professor	Audisankara College of Engineering & Technology, Gudur	9701605825	KITSW/EEED/FDP /MGEVAA20/P079
crsp143@gmail.com	Mr. CHINMAYA RANJAN PRADHAN	Assistant Professor	NM INSTITUTE OF ENGINEERING & TECHNOLOGY, BHUBANESWAR	9439365218	KITSW/EEED/FDP /MGEVAA20/P080
ashok7200@gmail.com	Mr. G. ASHOK KUMAR	Assistant Professor	Trinity College of Engineering and Technology, Peddapalli	9553143133	KITSW/EEED/FDP /MGEVAA20/P081
rajashekar.iruvanti@gmail.com	Mr. IRUVANTI RAJASHEKAR	Assistant Professor	MALLA REDDY COLLEGE OF ENGINEERING AND TECHNOLOGY	8125291903	KITSW/EEED/FDP /MGEVAA20/P082
jagdishdholwani@gmail.com	MR. JAGDISH PITAMBAR DHOLWANI	Research Scholar	NIT Silchar Assam	8856866809	KITSW/EEED/FDP /MGEVAA20/P083
dhanraj12k@gmail.com	Mr. K. DHANRAJ	Assistant Professor	Talla Padmavathi College of Engineering	9866155661	KITSW/EEED/FDP /MGEVAA20/P084
skjntum@gmail.com	Mr. KUMAR SALIGANTI	Assistant Professor	JNTUH COLLEGE OF ENGINEERING MANTHANI	9441110118	KITSW/EEED/FDP /MGEVAA20/P085
mihirbhatt.ee@charusat.ac.in	Mr. M. BHATT	Assistant Professor	CSPIT, Changa	9913277673	KITSW/EEED/FDP /MGEVAA20/P086

mnr.eee@kitsw.ac.in	Mr. M.NARASIMHA RAO	Associate Professor	KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE WARANGAL	9440788094	KITSW/EEED/FDP /MGEVAA20/P087
mahammadsoibsaiyad.ee@charusat.ac.in	Mr. MAHAMMADSOAI B M. SAIYAD	Assistant Professor	CSPIT, CHARUSAT, CHANGA	8485916188	KITSW/EEED/FDP /MGEVAA20/P088
mahi.kodela@gmail.com	Mr. MAHENDER KODELA	Assistant Professor	Vaagdevi college of engineering, warangal	9963198685	KITSW/EEED/FDP /MGEVAA20/P089
mahesh.obannavar@pdit.ac.in	Mr. MAHESH OBANNAVAR	Engineer	Proudhadevaraya Institute of Technology Hospet	8904243365	KITSW/EEED/FDP /MGEVAA20/P090
msk.eee@kitsw.ac.in	Mr. MAVURAPU SRINIVAS	Assistant Professor	Kakatiya Institute of Technology & Science, warangal, (Telangana)	9640133930	KITSW/EEED/FDP /MGEVAA20/P091
ngangadhara19@gmail.com	Mr. N.GANGADHAR	Associate Professor	BIT INSTITUTE OF TECHNOLOGY - HINDUPUR	9866265416	KITSW/EEED/FDP /MGEVAA20/P092
kiran.eee28@gmail.com	Mr. NARSINGOJU KIRANKUMAR	Assistant Professor	VAAGESWARI COLLEGE OF ENGINEERING, KARIMNAGAR	9959793748	KITSW/EEED/FDP /MGEVAA20/P093
patnanasai@gmail.com	Mr. P. SAI SRINIVAS	Assistant Professor	MVGR College of Engineering	9440274834	KITSW/EEED/FDP /MGEVAA20/P094
eca.pradeep@gmail.com	Mr. PRADEEP RAMAGIRI	Assistant Professor	Malla Reddy College of Engineering & Technology (A), Maisammaguda	9676623494	KITSW/EEED/FDP /MGEVAA20/P095
pratikmochi.ee@charusat.ac.in	Mr. PRATIK MOCHI	Assistant Professor	C.S. Patel Institute of Technology, CHARUSAT	9974916313	KITSW/EEED/FDP /MGEVAA20/P096
prem.n.verma@goel.edu.in	Mr. PREM NARAYAN VERMA	Assistant Professor	Goel Institute of Technology & Management, Lucknow (Uttar Pradesh)	9454320143	KITSW/EEED/FDP /MGEVAA20/P097
rsksjcetsathish@gmail.com	Mr. RAJA SATHISH KUMAR	Assistant Professor	Keshav Memorial Institute Of Technology Hyderabad	9553271895	KITSW/EEED/FDP /MGEVAA20/P098
satish.ramaji@gmail.com	Mr. SATISH KUMAR RAMOJI	Research Scholar	National Institute of Technology, Silchar, Assam	9959352279	KITSW/EEED/FDP /MGEVAA20/P099
ksv.eee@kitsw.ac.in	Mr. SRINIVAS KOTTAKONDA	Assistant Professor	Kakatiya Institute of Technology & Science Warangal (KITSW)	9398099230	KITSW/EEED/FDP /MGEVAA20/P100
iamshahbazuddin@gmail.com	Mr. Syed Shahbazuddin	Assistant Professor	Vaagdevi Engineering College, Warangal	8886663203	KITSW/EEED/FDP /MGEVAA20/P101
shajihroyal@gmail.com	Mr. SYED SHAJIH UDDIN AHMED	Assistant Professor	ISL Engineering College	9849427663	KITSW/EEED/FDP /MGEVAA20/P102
tiru.allam225@gmail.com	Mr. THIRUPATHI ALLAM	Assistant Professor	Kamala Institute of Technology and Science, Huzurabad	9032763884	KITSW/EEED/FDP /MGEVAA20/P103
santha243@gmail.com	Mr. U SHANTHA KUMAR	Assistant Professor	RYMEC, Bellary	9986224671	KITSW/EEED/FDP /MGEVAA20/P104
ylucky2008@gmail.com	Mr. Y. HAZARATHAIAH	Assistant Professor	G PULLAIAH COLLEGE OF ENGINEERING AND TECHNOLOGY	8331903057	KITSW/EEED/FDP /MGEVAA20/P105
santhosh.yeruvaka@gmail.com	Mr. YERUVAKA SANTHOSH	Assistant Professor	JNTUH COLLEGE OF ENGINEERING MANTHANI	9573848820	KITSW/EEED/FDP /MGEVAA20/P106
shivakumar.avula@gmail.com	Mr.A.SHIVA KUMAR	Assistant Professor	Kommuri Pratap Reddy Institute of Technology, Hyderabad,(TS)	9542090009	KITSW/EEED/FDP /MGEVAA20/P107
jagadeesh908@gmail.com	Mr.B.JAGADISH KUMAR	Associate Professor	Kakatiya Institute of Technology and Science, Warangal	9440514324	KITSW/EEED/FDP /MGEVAA20/P108
subrahman9am@gmail.com	Mr.B.SUBRAHMAN YAM	Assistant Professor	Swarandhra College of Engineering and Technology	9000681169	KITSW/EEED/FDP /MGEVAA20/P109
kalyanchallapalli@gmail.com	Mr.Ch.NAGA SAI KALYAN	Assistant Professor	VVIT Guntur	8885811784	KITSW/EEED/FDP /MGEVAA20/P110

chvinaykumar_eee@mgi t.ac.in	Mr.CH.VINAY KUMAR	Assistant Professor	MAHATMA GANDHI INSTITUTE OF TECHNOLOGY	9492755749	KITSW/EEED/FDP /MGEVAA20/P111
crcharan@jntuh.ac.in	Mr.CHANDRAGIRI RADHACHARAN	Assistant Professor	JNTUH College of Engineering Jagtial,Nachupally,Jagtial,T.S.	9701352066	KITSW/EEED/FDP /MGEVAA20/P112
dharmeshdabhi.lee@char usat.ac.in	Mr.DHARMESH DABHI	Assistant Professor	Chandubhai S Patel Institute of Technology ,Changa	9574018801	KITSW/EEED/FDP /MGEVAA20/P113
amar1434@gmail.com	Mr.G.AMARENDAR	Assistant Professor	Vaagdevi College of engineering	8121981214	KITSW/EEED/FDP /MGEVAA20/P114
khadarbasha233@gmail. com	Mr.KHADARBASHA SHAIK	Assistant Professor	AM Reddy memorial college of engineering and technology	6302463127	KITSW/EEED/FDP /MGEVAA20/P115
matla.raju33@gmail.com	Mr.M.Raju	Assistant Professor	Kamala Institute of Technology and Science,Singapur,Huzurabad	9701652518	KITSW/EEED/FDP /MGEVAA20/P116
praveen.prajwal@gmail. com	Mr.MATTEDA PRAVEEN KUMAR	Associate Professor	SCCE. KARIMNAGAR.T.S	9849214268	KITSW/EEED/FDP /MGEVAA20/P117
saleem238@gmail.com	Mr.MOHAMMAD SALEEM	Associate Professor	AURORA'S ENGINEERING COLLEGE	9966298527	KITSW/EEED/FDP /MGEVAA20/P118
niravachauhan@gmail.c om	Mr.NIRAVKUMAR A CHAUHAN	Assistant Professor	Sardar Vallabhnbhai Patel Institute of Technology,SVIT-Vasad	9428658638	KITSW/EEED/FDP /MGEVAA20/P119
prakashshanbog@gmail. com	Mr.Prakasha	Assistant Professor	Proudhadevara Institute of Technology	9880443121	KITSW/EEED/FDP /MGEVAA20/P120
gopikrishna82@gmail.co m	Mr.R.GOPI KRISHNA	Assistant Professor	Rajiv Gandhi College of Engineering and Technology, Puducherry	9786082552	KITSW/EEED/FDP /MGEVAA20/P121
srinivasmandela2112@g mail.com	Mr.SRINIVAS MANDELA	Assistant Professor	Dr.Lankapalli Bullayya College of Engineering for Women, Visakhapatnam, (A.P)	7416524429	KITSW/EEED/FDP /MGEVAA20/P122
smmmudassir@yahoo.c o.in	Mr.Syed Mujtaba Mahdi Mudassir	Assistant Professor	Deccan College of Engineering and Technology	9949222067	KITSW/EEED/FDP /MGEVAA20/P123
ramakrishna.thatipamul a@gmail.com	Mr.THATIPAMULA RAMAKRISHNA	Assistant Professor	Kamala Institute of Technology & science	9963866896	KITSW/EEED/FDP /MGEVAA20/P124
sreenivast.lee@hitam.or g	Mr.TUMMAPUDI SRINIVASULU	Associate Professor	HITAM	9848574409	KITSW/EEED/FDP /MGEVAA20/P125
uday4318@gmail.com	Mr.UDAY KUMAR NEERATI	Assistant Professor	VASAVI COLLEGE OF ENGINEERING (A), HYDERABAD	9701172500	KITSW/EEED/FDP /MGEVAA20/P126
nishashamin@gmail.co m	Mrs NISHA C RANI	Associate Professor	TOCE, Bangalore	9449635342	KITSW/EEED/FDP /MGEVAA20/P127
shalini815@yahoo.com	Mrs V. BABYSHALINI	Assistant Professor	JNTUH college of engineering, jagityal	9949000488	KITSW/EEED/FDP /MGEVAA20/P128
amritha.k@bvrithyderabad. edu.in	Mrs. AMRITHA. K	Associate Professor	BVRIT Hyderabad College of Engineering for Women	9885511580	KITSW/EEED/FDP /MGEVAA20/P129
shreedeepa227@gmail.c om	Mrs. M.R.SREELAKSHMI	Assistant Professor	CMR ENGINEERING COLLEGE	9014418072	KITSW/EEED/FDP /MGEVAA20/P130
rajeshwari.nomula22@g mail.com	Mrs. NOMULA RAJESHWARI	Contract Lecturer	GPT CHERIAL	9866179998	KITSW/EEED/FDP /MGEVAA20/P131
sucharithathakkalappally @gmail.com	Mrs. P. SUCHARITHA	Assistant Professor	Sumathi Reddy Institute Of Technology For Women, warangal, (T.S.)	96262953	KITSW/EEED/FDP /MGEVAA20/P132
chada.prathyusha@gmai l.com	Mrs.CHADA PRATHYUSHA	Assistant Professor	KAMALA INSTITUTE OF TECHNOLOGY AND SCIENCE	9949194629	KITSW/EEED/FDP /MGEVAA20/P133











devikamothukuri@gmail.com	Mrs.M.DEVIKA RANI	Assistant Professor	PRASAD V POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY,VIJAYAWADA	9000218909	KITSW/EEED/FDP /MGEVAA20/P134
rudrojumounika@gmail.com	Mrs.R.MOUNIKA	Assistant Professor	Vaagdevi College of engineering	8801959078	KITSW/EEED/FDP /MGEVAA20/P135
vidhyab.rymec@gmail.com	Mrs.Vidhya B	Assistant Professor	Proudhadevaraya Institute of Technology	8050722762	KITSW/EEED/FDP /MGEVAA20/P136
gayathria2420@gmail.com	Ms D.GAYATHRI	Assistant Professor	IFET COLLEGE OF ENGINEERING	9003756482	KITSW/EEED/FDP /MGEVAA20/P137
damu.vasavi@gmail.com	Ms. DAMU VASAVI	Assistant Professor	Raghu Engineering College, Visakhapatnam	7702544506	KITSW/EEED/FDP /MGEVAA20/P138
poojithak.eee@hitam.org	Ms. KANAKAMEDALA POOJITHA	Assistant Professor	HYDERABAD INSTITUTE OF TECHNOLOGY AND MANAGEMENT	7731064169	KITSW/EEED/FDP /MGEVAA20/P139
soumya.p2019@vitstudent.ac.in	Ms. P. SOUMYA	Research Scholar	Vellore Institute of Technology, Vellore	9949435065	KITSW/EEED/FDP /MGEVAA20/P140
bpallavi@stanley.edu.in	Ms.B .Pallavi	Assistant Professor	Stanley College of Engineering and Technology for Women	8985822317	KITSW/EEED/FDP /MGEVAA20/P141
bathulareshma@gmail.com	Ms.B.Reshma	Assistant Professor	KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE - WARANGAL	7673955016	KITSW/EEED/FDP /MGEVAA20/P142
poojanandhikonda@gmail.com	Ms.N.POOJA	Assistant Professor	CJITS	8522835711	KITSW/EEED/FDP /MGEVAA20/P143
nvumaeer@gmail.com	Ms.N.V.UMA MAHESWARI	Assistant Professor	GCE,Bodinayakkanur	9786002634	KITSW/EEED/FDP /MGEVAA20/P144
suprithavemula.263@gmail.com	MS.SUPRITHA VEMULA	Assistant Professor	Kamala institute of technology and science	9492839345	KITSW/EEED/FDP /MGEVAA20/P145
pnreddy.eee@kitsw.ac.in	NAGARJUNA REDDY POREDDY	Assistant Professor	KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE - WARANGAL	9908926407	KITSW/EEED/FDP /MGEVAA20/P146
nainijansi217@gmail.com	NAINI JHANSI	Assistant Professor	Kamala institute of technology and science	9704921339	KITSW/EEED/FDP /MGEVAA20/P147
learn.nish@gmail.com	NISHITH SHAHU	Assistant Professor	Neotech Faculty of Diploma Engineering, Vadodara	9.19428E+11	KITSW/EEED/FDP /MGEVAA20/P148
niteshr1990@gmail.com	NITESH TIWARI	Research Scholar	Madan Mohan Malaviya University of Technology Gorakhpur	9458704552	KITSW/EEED/FDP /MGEVAA20/P149
hemakesavulu7@gmail.com	O.HEMAKESAVULU	Associate Professor	Annamacharya Institute of Technology & Sciences,Rajampet	6304547966	KITSW/EEED/FDP /MGEVAA20/P150
mohanojje237@gmail.com	OJJE MOHAN	Assistant Professor	CJITS, JANGAON	9849358305	KITSW/EEED/FDP /MGEVAA20/P151
niranjan.merits@gmail.com	P sai niranjan Kumar	Assistant Professor	G Narayanamma Inst of tech and science	8074560979	KITSW/EEED/FDP /MGEVAA20/P152
psp4india16@gmail.com	P. S. PATIL	Assistant Professor	Yeshwantrao Chavan College of Engineering	8788514759	KITSW/EEED/FDP /MGEVAA20/P153
sangeetha813@gmail.com	P. SANGEETHA	Assistant Professor	JNTUH College of Engineering Jagtial	9704538004	KITSW/EEED/FDP /MGEVAA20/P154
ppurushotham1098@gmail.com	P.PURUSHOTHAM	Student	Mother Theresa institute of engeneering and technology	9347021566	KITSW/EEED/FDP /MGEVAA20/P155
pavanckumar0081947@gmail.com	PAVAN KUMAR C	Assistant Professor	KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE WARANGAL	9652801085	KITSW/EEED/FDP /MGEVAA20/P156

Poonam.yadav@goel.edu.in	POONAM YADAV	Assistant Professor	Goel Institute Of Technology and Management Lucknow	8218618701	KITSW/EEED/FDP /MGEVAA20/P157
prakash289@gmail.com	PRAKASH VODAPALLI	Assistant Professor	KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE - WARANGAL	9618781479	KITSW/EEED/FDP /MGEVAA20/P158
pm.eee@kitsw.ac.in	PUDARI MAHESH	Assistant Professor	KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE - WARANGAL	8328281025	KITSW/EEED/FDP /MGEVAA20/P159
Yannareddy.p@gmail.com	PUTCHAKAYALA YANNA REDDY	Assistant Professor	Swarnandra College of Engineering and technology, Narsapur, AP	9866285492	KITSW/EEED/FDP /MGEVAA20/P160
gry.eee@kitsw.ac.in	RAKESH YADAV GORRE	Assistant Professor	KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE - WARANGAL	9052061103	KITSW/EEED/FDP /MGEVAA20/P161
ramulu.eee@nmrec.edu.in	RAMULU KUMMARIPALLY	Assistant Professor	Nalla Malla Reddy Engineering College, Divyanagar	9908215236	KITSW/EEED/FDP /MGEVAA20/P162
rashmirekha828@gmail.com	RASHMI REKHA BEHERA	Research Scholar	Centurion University of technology and management, Odisha	9997502999	KITSW/EEED/FDP /MGEVAA20/P163
srk232@gmail.com	RATNA KUMAR SINGAVARAPU	Assistant Professor	KMIT Hyderabad, (T.S.)	8142208261	KITSW/EEED/FDP /MGEVAA20/P164
ravi.majji072@gmail.com	RAVI KUMAR MAJJI	Research Scholar	National Institute of Technology Silchar	9494946075	KITSW/EEED/FDP /MGEVAA20/P165
anjiraj214@gmail.com	S RAMANJANEYULU KORADA	Associate Professor	NADIMPALLI SATYANARAYANA RAJU INSTITUTE OF TECHNOLOGY (NSRIT)	9494575199	KITSW/EEED/FDP /MGEVAA20/P166
ssudharani_eee@mgit.ac.in	S.SUDHARANI	Assistant Professor	Mahatma Gandhi Institute Of Technology	9490520889	KITSW/EEED/FDP /MGEVAA20/P167
sadi_p901@yahoo.co.in	SADANANDAM PERUMANDLA	Associate Professor	Vaagdevi College of Engineering	9948283769	KITSW/EEED/FDP /MGEVAA20/P168
mail2sadasiv@gmail.com	SADASIVA BEHERA	Research Scholar	NIT Silchar	9853673629	KITSW/EEED/FDP /MGEVAA20/P169
santhosh.santu201@gmail.com	SANTHOSH KUMAR KATKURI	Assistant Professor	Gudlavalleru Engineering College	9490238940	KITSW/EEED/FDP /MGEVAA20/P170
eeehod.sritw@gmail.com	SHASHI KUMAR REDDY RAVULA	Assistant Professor	SRITW, WARANGAL	9030080201	KITSW/EEED/FDP /MGEVAA20/P171
mshrikruti@gmail.com	SHRIKRUTI S MANAGOLI	Assistant Professor	Basav Engineering School of Technology, Zalki	6360881144	KITSW/EEED/FDP /MGEVAA20/P172
sravanthi314@gmail.com	SRAVANTHY GADDAMEEDHI	Assistant Professor	SNIST	9100225542	KITSW/EEED/FDP /MGEVAA20/P173
vs.eee@kitsw.ac.in	SRINIVAS VEMULA	Assistant Professor	KITS Warangal, (T.S.)	8008265026	KITSW/EEED/FDP /MGEVAA20/P174
srinivasarao_j@vnrvjiet.in	SRINIVASA RAO JALLURI	Associate Professor	VNR VJMET	9866849787	KITSW/EEED/FDP /MGEVAA20/P175
suma.kucet@gmail.com	SUMALATHA KALAKOTLA	Assistant Professor	UNIVERSITY COLLEGE OF ENGINEERING, KAKATIYA UNIVERSITY	9966521708	KITSW/EEED/FDP /MGEVAA20/P176
gsk.eee@kitsw.ac.in	SUNIL KUMAR GUNDA	Assistant Professor	Kakatiya Institute of Technology & Science, Warangal	9618931612	KITSW/EEED/FDP /MGEVAA20/P177
praveen3564@gmail.com	T PRAVEEN KUMAR	Assistant Professor	KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE WARANGAL	9.1999E+11	KITSW/EEED/FDP /MGEVAA20/P178

chaturvedula_eee@acoe.edu.in	U P KUMAR CHATURVEDULA	Associate Professor	ADITYA COLLEGE OF ENGINEERING	7702119117	KITSW/EEED/FDP /MGEVAA20/P179
phanendrababu_eee@cb it.ac.in	VENKATAPHANEN DRABABU N	Assistant Professor	Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana	8096909995	KITSW/EEED/FDP /MGEVAA20/P180
grn.eee@kitsw.ac.in	Dr G. Rajender Naik	Associate Professor	Kakatiya Institute of Technology & Science Warangal	9866351508	KITSW/EEED/FDP /MGEVAA20/P182
vr.eee@kitsw.ac.in	VEERLAPATI RAMAIAH	Professor	Kakatiya Institute of Technology & Science Warangal	9700585856	KITSW/EEED/FDP /MGEVAA20/P183
arsbarc@gmail.com	Dr Rajasekhar Ananthoju	Assistant Professor	Kakatiya Institute of Technology & Science Warangal	8374932678	KITSW/EEED/FDP /MGEVAA20/P184
drc.eee@kitsw.ac.in	Dr.D.Rakesh Chandra	Assistant Professor	Kakatiya Institute of Technology & Science Warangal	9492442236	KITSW/EEED/FDP /MGEVAA20/P185
chinmaydeshpande123 @gmail.com	CHINMAY VIVEK DESHPANDE	Assistant Professor	Zeal Education Society's, Zeal College of Engineering and Research, Narhe, Pune	8956687627	KITSW/EEED/FDP /MGEVAA20/P186
venkat7785@gmail.com	RAJANI VENKATA KRISHNA	Associate Professor	LORDS INSTITUTE OF ENGINEERING AND TECHNOLOGY	9052058520	KITSW/EEED/FDP /MGEVAA20/P187
venumadhaveee@cvsr.a c.in	Dr. GOPALA VENU MADHAV	Professor	ANURAG GROUP OF INSTITUTIONS VENKATAPUR GHATKESAR	9848749953	KITSW/EEED/FDP /MGEVAA20/P188
vieweedept@gmail.co m	Mrs.SEELAM.SUJAT HA DEVI	Assistant Professor	Avanthi Institute of Engg and Technology	9848822862	KITSW/EEED/FDP /MGEVAA20/P189
vishwaprakash0078@g mail.com	Mr. VISWAPRAKASH BABU	Associate Professor	JYOTHISHMATHI INSTITUTE OF TECHNOLOGY AND SCIENCE	9866125320	KITSW/EEED/FDP /MGEVAA20/P190
skdwivedi@eed.svnit.ac. in	Shailendra Kumar	Assistant Professor	SVNIT Surat	9716379527	KITSW/EEED/FDP /MGEVAA20/P191
shruthimaku@gmail.co m	M.V.Shruthi	Assistant Professor	Stanley College of Engineering and Technology for Women	9951018521	KITSW/EEED/FDP /MGEVAA20/P192
drkjits@gmail.com	D Rajani Kumar	Associate Professor	Jayamukhi Institute of Technological Sciences	9949781784	KITSW/EEED/FDP /MGEVAA20/P193
ylnrao_eee@mvsrec.edu. in	Y.LAXMI NARASIMHA RAO	Assistant Professor	M.V.S.R Engineering College	9666232440	KITSW/EEED/FDP /MGEVAA20/P194
yms.eee@kitsw.ac.in	Dr.Y.MANJUSREE	Assistant Professor	KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE - WARANGAL	9866218295	KITSW/EEED/FDP /MGEVAA20/P195

## SAMPLE CERTIFICATE OF PARTICIPANT AND RESOURCE PERSON

	<b>KAKATIYA INSTITUTE OF TECHNOLOGY &amp; SCIENCE</b> WARANGAL- 506 015 (An AUTONOMOUS Institute Under Kakatiya University, Warangal) <b>DEPARTMENT OF ELECTRICAL &amp; ELECTRONICS ENGINEERING</b>	
<b><i>PARTICIPATION CERTIFICATE</i></b>		
<b>No:</b> KITSW/EEED/FDP/MGEVAA20/P001		
This is to certify that <u><b>A.BHANUCHANDAR</b></u> working as <u>Research Scholar</u> in <u>NIT Warangal</u> has actively participated in ISTE sponsored one week online faculty development program on <b>“MICRO GRID, ELECTRIC VEHICLES AND ALLIED AREAS (MGEVAA-20)”</b> organized by Department of Electrical & Electronics Engineering held during <b>1<sup>st</sup> to 5<sup>th</sup> June, 2020.</b>		
 Prof. V. Rajagopal Coordinator, MGEVAA-20 Professor, EEED, KITSW.	 Prof. C. Venkatesh Convener, MGEVAA-20 Professor & HoD, EEED, KITSW.	 Prof. K. Ashoka Reddy Principal, KITSW.

	<b>KAKATIYA INSTITUTE OF TECHNOLOGY &amp; SCIENCE</b> WARANGAL- 506 015 (An AUTONOMOUS Institute Under Kakatiya University, Warangal) <b>DEPARTMENT OF ELECTRICAL &amp; ELECTRONICS ENGINEERING</b>	
<b><i>CERTIFICATE OF APPRECIATION</i></b>		
<b>No:</b> KITSW/EEED/FDP/MGEVAA20/RP01		
This is to certify that <u><b>Dr. M. MITHUN BHASKAR</b></u> working as <u>Head, Model Based Design</u> in <u>TATA ELXSI</u> has delivered a lecture on <u><b>xEV Autonomy, Retrofitting and MBD</b></u> in ISTE sponsored one week online faculty development program on <b>“MICRO GRID, ELECTRIC VEHICLES AND ALLIED AREAS (MGEVAA-20)”</b> organized by Department of Electrical & Electronics Engineering held during <b>1<sup>st</sup> to 5<sup>th</sup> June, 2020.</b>		
 Prof. V. Rajagopal Coordinator, MGEVAA-20 Professor, EEED, KITSW.	 Prof. C. Venkatesh Convener, MGEVAA-20 Professor & HoD, EEED, KITSW.	 Prof. K. Ashoka Reddy Principal, KITSW.

## Sample Feedback Form

KITSW\_EEED\_MGEVAA\_FDP\_Day-5(Afternoon  
Session)\_Feedback form

Email ID: \*

nishanthkatam@gmail.com

Full Name of the Participant (Required as per certificate) \*

Katam Nishanth

Designation \*

- Professor
- Associate Professor
- Assistant Professor
- Research Scholar
- Others

Name of the Department \*

Electrical Engineering

Name of Organisation / Institute: \*

IISc Bangalore

Place of work \*

Bangalore

State \*

Karnataka

Mobile Number \*

9441843624

How would you rate the Session-1? (Dr. Kalpana Ramesh Babu -Battery management System for EVs) \*

	1	2	3	4	5	
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Excellent

How would you rate the Session-2? (Dr. Sandeep Madishetti -Advanced Power Electronics Applications in Aerospace, EV and Renewable Energy) \*

	1	2	3	4	5	
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Excellent

Any suggestions you would like to give:

\_\_\_\_\_

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