


<b>Name:</b> CHERALA USHASRI																																														
<b>Qualification:</b> <ul style="list-style-type: none"> <li>M.Tech(Ph.D.)</li> </ul>																																														
<b>Experience:</b> 10 YEARS																																														
<b>Area of Interest:</b> Power quality improvement in micro grid connected PV system																																														
<b>Subjects Taught:</b> Power Electronics, Power systems-II, Power semiconductor systems, Electrical machines-II, Electrical machines-III, Electrical circuits-I, Basic electrical engineering, Utilization of electrical engineering, power electronic converters-I.																																														
<b>Research Publications:</b> <ul style="list-style-type: none"> <li>➤ AilySanthosh,Ch.Ushasri- “Input current ripple reduction using modified sepic converter as preregulator” 6<sup>th</sup> international conference on science , technology and management , India international center, New Delhi ISBN : 978-93-86171-16-0.</li> <li>➤ T.Praveen Kumar, CH. Ushasri-“Leakage current elimination in transformer less photovoltaic grid-tied inverters with neutral point clamped full-bridge topologies ”international journal of professional engineering studies Volume V/Issue 2/ Aug 2015.</li> </ul>																																														
<b>Grants:</b>																																														
<b>Projects guided:</b>																																														
<b>UG projects</b>																																														
<table border="1"> <thead> <tr> <th>Title</th> <th>Student Name</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td rowspan="4">An improved power quality high frequency soft switched variable speed DC drive with 3-phase inputs</td> <td>P.Saimitra</td> <td>08641A0208</td> </tr> <tr> <td>A.Ajay</td> <td>08641A0231</td> </tr> <tr> <td>N.Sathishkumar</td> <td>08641A0238</td> </tr> <tr> <td>B.Jyothi</td> <td>09645A0207</td> </tr> <tr> <td rowspan="4">Inductor average current mode control for single phase power factor correction Buck boost converter</td> <td>K.Kalpna</td> <td>09641A0276</td> </tr> <tr> <td>B.sadhana</td> <td>09641A0265</td> </tr> <tr> <td>K.harish</td> <td>09641A0268</td> </tr> <tr> <td>S.Jeevanbabu</td> <td>09641A0275</td> </tr> <tr> <td rowspan="4">Unified constant frequency integration control of active power filter steadystate and dynamic</td> <td>N.Vyshnavi</td> <td>09641A0220</td> </tr> <tr> <td>V.Keerthika</td> <td>09641A0215</td> </tr> <tr> <td>M.Aparna</td> <td>09641A0232</td> </tr> <tr> <td>V.Rajender</td> <td>09641A0206</td> </tr> <tr> <td rowspan="5">Flexible DSTATCOM performance as a flexible distributed generation in mitigation faults.</td> <td><b>K.Bindu</b></td> <td>10641A0213</td> </tr> <tr> <td>K.Harshasree</td> <td>10641A0221</td> </tr> <tr> <td>K.Laxmiprasad</td> <td>10641A0231</td> </tr> <tr> <td>P.Rajesh</td> <td>10641A0209</td> </tr> <tr> <td>V.Sravan</td> <td>10641A0202</td> </tr> <tr> <td>An Improved Buck PFC</td> <td>B.Dilipkumar</td> <td>12UK1A0256</td> </tr> </tbody> </table>	Title	Student Name	Year	An improved power quality high frequency soft switched variable speed DC drive with 3-phase inputs	P.Saimitra	08641A0208	A.Ajay	08641A0231	N.Sathishkumar	08641A0238	B.Jyothi	09645A0207	Inductor average current mode control for single phase power factor correction Buck boost converter	K.Kalpna	09641A0276	B.sadhana	09641A0265	K.harish	09641A0268	S.Jeevanbabu	09641A0275	Unified constant frequency integration control of active power filter steadystate and dynamic	N.Vyshnavi	09641A0220	V.Keerthika	09641A0215	M.Aparna	09641A0232	V.Rajender	09641A0206	Flexible DSTATCOM performance as a flexible distributed generation in mitigation faults.	<b>K.Bindu</b>	10641A0213	K.Harshasree	10641A0221	K.Laxmiprasad	10641A0231	P.Rajesh	10641A0209	V.Sravan	10641A0202	An Improved Buck PFC	B.Dilipkumar	12UK1A0256		
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converter with high power factor	A.Abhilash S.Anusha Ch. Deepika B.Nithin	12UK1A0244 12UK1A0260 12UK1A0223 12UK1A0231
Power quality Improvement of single phase Grid connected PWM inverter using fuzzy with Hysterisis current controller.	B.Ravikumar K.Praveenkumar B.Bhavani Reddy Md.Abdul Rahman khan A.raju	11645A0211 10641A0254 10641A0211 10641A0202 10645A0204
Control of reduced rating dynamic voltage restorer with battery energy storage system	S.Muralikrishna G.Ravikumar S.Supriya O.Deepthi L.ushaswini	11UK1A0248 11UK1A0227 11UK1A0241 11UK1A0260 11UK1A0222
Modified and nonlinear control of a fuel cell supercapacitor hybrid energy storage system for electric vehicles	Shireesha.T K.Rakesh P.Bhanuprasd B.Devi k.Prashanth	11UK1A0262 11UK1A0279 11UK1A0277 11UK1A0264 11UK1A0291
Reducing fault current and over voltage distribution system with distributed generation units through an active type SFCL	D.Haripriya O.Sravan B.Ravi M.karunaker	11641A02C2 11641A02D2 11641A02G5 11641A02H5
A unified control strategy for three phase inverter in distributed generation.	Md.Khajafaisalmoinuddin k.Ushasri M.Pruthviraj SK.Azeez L.Anurupkumar	11641A0225  11641A0221 11641A0205 11641A0209 11641A0247

### PG projects

Title	Student Name	Year
A family of neutral point clamped full bridge topologies for transformerless photovoltaic grid inverter	T.Praveenkumar	2013-2015
Induction motor drive system using pushpull converter and three phase SPWM inverterfed from solarphoto voltaic panel	B.Priyanka	2013-2015
Input current ripple reduction	Aliy Santhosh	2014-2016

using modified SEPIC converter as preregulator		
An enhanced voltage sag compensation scheme for dynamic voltage restorer	G.Rathansingh	<b>2014-2016</b>
New interleaved current fed resonant converter with significantly reduced high current side output filter for EV and HEV applications	R.Srilatha	<b>2014-2016</b>
<b>Workshops/Seminars/FDP's Attended:</b> <ol style="list-style-type: none"> <li>1. One day entrepreneurship awareness drive</li> <li>2. National level workshop on "Power quality improvement and its mitigation techniques" organized by NIT wgl</li> <li>3. Work shop on conceptual design for industrial distribution and substation</li> <li>4. National level workshop on "Role of women in technical education" organized by NIT wgl</li> <li>5. Attended workshop on women empowerment.</li> </ol>		
<b>Conferences Attended:(preferably International)</b>		
<b>Achievements:</b> <ol style="list-style-type: none"> <li>1. Member of women cell</li> <li>2. Member of women protection cell</li> </ol>		