

## Faculty Information

Sl. No.	Information																											
1.	Name: Designation Contact address: Phone Number: E-mail ID:	<b>Dr. Rajanna S.</b> <b>Professor,</b> <b>Department of E&amp;E Engineering, MCE</b> <b>8791340700</b> <b>sr@mcehassan.ac.in</b> <b>srajannamce@gmail.com</b>																										
2.	Qualification:	<b>B.E., M.Tech., Ph.D. (IIT, Roorkee)</b>																										
3.	Date of Joining:	<b>11.08.2008</b>																										
4.	Position held:	<b>Present designation: PROFESSOR</b> <ul style="list-style-type: none"> <li>• Professor (since 2020)</li> <li>• Associate Professor (since 2011)</li> <li>• Assistant Professor (since 2008)</li> </ul>																										
5.	<b>Ongoing Research guidance:</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Registrati on</th> <th style="text-align: center;">Name of the candidate with USN.</th> <th style="text-align: center;">Title of the Ph.D. topics</th> <th style="text-align: center;">Remarks</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2018</td> <td style="text-align: center;">Dhavala R. K 4MC18PEE01</td> <td style="text-align: center;">Development of Optimal renewable energy model for the chosen Remote Area</td> <td style="text-align: center;">Pre-Ph.D. Comprehensive viva -voce is completed</td> </tr> <tr> <td style="text-align: center;">2018</td> <td style="text-align: center;">Manjunath 4MC18PEE02</td> <td style="text-align: center;">Performance Enhancement of solar Photovoltaic Array using Effective shade dispersion Technique under partial shading Conditions</td> <td style="text-align: center;">Ph. D Awarded</td> </tr> <tr> <td style="text-align: center;">2019</td> <td style="text-align: center;">Varaprasad N. L 4MC19PEE04</td> <td style="text-align: center;">Development of Integrated Solar-Wind based Charging station for Plug-In hybrid electric vehicles.</td> <td style="text-align: center;">Course work under progress</td> </tr> <tr> <td style="text-align: center;">2019</td> <td style="text-align: center;">Shruthi K.H 4MC19PEE03</td> <td style="text-align: center;">Optimal design of grid connected FET based Inverter</td> <td style="text-align: center;">Course work completed, Comprehensive viva under progress</td> </tr> <tr> <td style="text-align: center;">2020</td> <td style="text-align: center;">Bharath Y. K 4MC20PEE02</td> <td style="text-align: center;">Renewable based standalone electrical vehicle charging station</td> <td style="text-align: center;">Provisional Registration</td> </tr> </tbody> </table>			Registrati on	Name of the candidate with USN.	Title of the Ph.D. topics	Remarks	2018	Dhavala R. K 4MC18PEE01	Development of Optimal renewable energy model for the chosen Remote Area	Pre-Ph.D. Comprehensive viva -voce is completed	2018	Manjunath 4MC18PEE02	Performance Enhancement of solar Photovoltaic Array using Effective shade dispersion Technique under partial shading Conditions	Ph. D Awarded	2019	Varaprasad N. L 4MC19PEE04	Development of Integrated Solar-Wind based Charging station for Plug-In hybrid electric vehicles.	Course work under progress	2019	Shruthi K.H 4MC19PEE03	Optimal design of grid connected FET based Inverter	Course work completed, Comprehensive viva under progress	2020	Bharath Y. K 4MC20PEE02	Renewable based standalone electrical vehicle charging station	Provisional Registration
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		2020	G.R. Sowmya 4MC20PEE03	Standalone based Integrated hybrid renewable energy system for electrification	Provisional Registration
6.	<b>As Invited resource person</b>	<b>As Invited resource person on topics of interest:</b> <ol style="list-style-type: none"> <li>1. Invited for delivering a technical talk on <b>Emerging Trends in solar Energy Conversion Systems on October 2017</b>, delivered at <b>Jawaharlal Nehru National College of Engineering</b>.</li> <li>2. Invited for delivering a technical talk for the AICTE sponsored two-week FDP on <b>Recent developments in renewable energy sources and its applications</b> conducted from 13th to 25 November 2017 at <b>Ghousia College of Engg, Ramanagar</b>.</li> <li>3. Invited for delivering an expert talk for AICTE-ISTE sponsored induction programme on <b>Lets trends in renewable energy technologies</b> on 07-06-2018. Organized at <b>BMS college of Engineering, Bangalore</b>.</li> <li>4. Invited for delivering an expert talk for <b>TEQIP-II</b> sponsored one week FDP programme on <b>Latest developments in Renewable Energy sources</b> on 07-06-2018. Sponsored by AICTE organized by department of automobile engineering, <b>MCE, Hassan</b>.</li> <li>5. Invited for delivering a technical talk for two-week FDP on <b>“Research Perspectives on solar and wind energy systems”</b>, during Jan 15-27, 2018, Sponsored by AICTE organized by department of E&amp;E Engg at Rajiv Gandhi Institute of Technology <b>Kottayam, Kerala</b>.</li> <li>6. Invited for delivering an expert talk for <b>TEQIP-III</b> sponsored one week FDP programme on <b>Latest developments in Renewable Energy sources</b> on 07-06-2018. Sponsored by AICTE organized by department of automobile engineering, <b>MCE, Hassan</b>.</li> <li>7. Invited for delivering technical talk on <b>“Research opportunities in power electronics and power system engineering”</b> Organized by Dept. of EEE, MVJCE in association with IETE, Bangalore Chapter from 1-5 March 2021.</li> </ol>			
7.	Research Interest:	<ul style="list-style-type: none"> <li>➤ Development of hybrid /integrated renewable energy system for a remote area/ standalone applications/ grid connected system.</li> <li>➤ Optimal design of grid connected FET based inverter.</li> <li>➤ Development of integrated solar wind-based charging station for plug-in hybrid electric vehicles</li> <li>➤ Performance investigation of photovoltaic systems, effect of partial shading.</li> <li>➤ Optimal sizing and siting of distributed generation.</li> </ul>			


8.	Citations	<table border="1"> <tr> <td></td> <td></td> <td></td> <td></td> <td>Cited</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td><b>528</b></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td><b>7</b></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td><b>6</b></td> </tr> </table>								Cited					<b>528</b>					<b>7</b>					<b>6</b>
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9	Workshops/ FDP/ STTP Conducted and Attended	<p><b>Workshops Conducted</b></p> <ul style="list-style-type: none"> <li>➤ One-week short term training programme on "Recent developments in renewable energy sources and conversion systems for on/off grid applications" held from 9th-14th December 2019 Sponsored by AICTE at department of E&amp;E Engg, MCE, Hassan.</li> <li>➤ One-week Interdisciplinary FDP program on "Recent Trends in Solar &amp; Wind energy system for on/Off grid applications" held from 9th-13th July 2018 Sponsored by TEQIP-II at department of E&amp;E Engg, MCE, Hassan.</li> <li>➤ Two-day workshop on " Recent Trends in Solar Energy Applications " during 27 &amp;28 March 2017 Sponsored by TEQIP-II at department of E&amp;E Engg, MCE, Hassan.</li> </ul>

### Workshops Attended

- Two-week ISTE STTP on "**Electric power system**", conducted by Indian Institute of Technology, Kharagpur from 12th June ,2017 to 15th July 2017.This workshop was under the National Mission on Education through ICT(MHRD) in association with EEE, SJCE, Mysore
- Two-week FDP on "**Research Perspectives on solar and wind energy systems**", during Jan 15-27, 2018, Sponsored by AICTE organized by department of E&E Engg at Rajiv Gandhi Institute of Technology Kottayam, Kerala.
- One week FDP on "**Challenges in Non-Conventional Energy sources** " during April 9 -13, 2018 Sponsored by TEQIP-III at department of Automobile Engg, MCE, Hassan.
- One week workshop on "**Smart Grid and Internet of things**" during June 18-22, 2018, Sponsored by TEQIP-III organized by department of E&E Engg, NIE, Mysore.
- One week FDP on "**MEMS & MOEMS**" during April 30th of April to -4th of May 2018 Sponsored by TEQIP-III at department of E&C Engg, MCE, Hassan.
- Five days Training programme on "**Computation and Real Time analysis of Systems using MATLAB & XILING**" during 16-20 July 2018 Sponsored by TEQIP-III at department of E&E Engg, MCE, Hassan.
- Two-day workshop on "**MATLAB & Simulink Application in Engg**" held during 18th -19th March 2017 Sponsored by TEQIP-II organized by department of E&E Engg, MCE, Hassan.
- Three-day FDP on "**Digital Control System**" held from 23rd to 25th March 2017 Sponsored by TEQIP-II organized by department of E&E Engg, MCE, Hassan
- One day workshop on "**New Model Curriculum for First year Syllabus**" on June 05, 2018, Sponsored by TEQIP-1.3 conducted at department of E&E Engg, SCEM, Mangalore organized by VTU, Belgavi.
- One day workshop on "**New Model Curriculum for PG course**" on June 06, 2018, Sponsored by TEQIP-1.3 conducted at department of E&E Engg, SCEM, Mangalore organized by VTU, Belgaum.

		<ul style="list-style-type: none"> <li>➤ Two-day workshop on "<b>Recent trends in Solar Energy Applications</b>" held from 27<sup>th</sup> to 28<sup>th</sup> March 2017. Sponsored by TEQIP-II organized by department of E&amp;E Engg, MCE, Hassan.</li> <li>➤ One day workshop on "<b>Professional &amp; Academic quality in engineering courses (PAQ)</b>" held on 23 ,2018 under TEQIP III organized by department of E&amp;E Engg, MCE, Hassan.</li> <li>➤ One week workshop on "Microgrid opportunity: Renewable Energy Resources and buildings" (Online) from June 16-20, 2020, sponsored by TEQIP III organised by Department of Electrical Engineering, Dayalbagh Educational Institute Dayalbagh, Agra, India.</li> <li>➤ One-week STTP program on "creating smart and green society through Advance Technology of green energy (Online) "during 10th -15th December ,2020 sponsored by AICTE at Malnad College of Engineering, Hassan.</li> <li>➤ Two-week workshop on "Digital Transformation in Teaching Learning Process" (Online) from April 6th to April 22nd, 2020, sponsored by TEQIP III organised by IIT, Bombay.</li> <li>➤ Two day "<b>Awareness workshop - NIRF INDIA RANKINGS - 2021 for Higher Educational Institutions</b>" held on-line on 18th &amp; 19th January 2021 by Institute for Academic Excellence in collaboration with Collegiate Education &amp; Technical Education Department, Govt. of Telangana.</li> <li>➤ One day workshop on "Energy Conservation &amp; Energy Efficiency held on 25-03-2021 at Hassan sponsored by Bureau of Energy Efficiency, Govt, of India.</li> <li>➤ Two-day online workshop "<b>Transformation through NAAC Accreditation Process, A National Level Workshop for Higher Educational Institutions</b>" held on 21st &amp; 22nd June 2021 conducted by "Institute for Academic Excellence, Hyderabad" in collaboration with "Collegiate Education &amp; Technical Education Department, Telangana State.</li> </ul>
10	Achievements	<ol style="list-style-type: none"> <li><b>1. Participated as an Invited speaker/Resource person in 10 Workshops/FDP.</b></li> <li><b>2. Convener for Rotaract Club.</b></li> <li><b>3. PG Coordinator.</b></li> <li><b>4. Research guidance leading to Ph.D./M.Sc. (Engg.) by Research degree</b></li> <li><b>5. NBA coordinator (Since March 2021).</b></li> <li><b>6. Academic Council member (Since 2019)</b></li> </ol>

11	Memberships	<ol style="list-style-type: none"><li>1. <b>FIE:</b> Fellow (Life term) of <b>I</b>nstitution of <b>E</b>ngineers (India) (M-146764-0)</li><li>2. <b>MISTE:</b> Member (Life term) of <b>I</b>ndian <b>S</b>ociety for <b>T</b>echnical <b>E</b>ducation (L M 43434)</li></ol>
12	Photo	 A portrait photograph of a man with dark hair, wearing a light blue dress shirt and a red necktie. He is looking directly at the camera with a neutral expression. The photo is centered within the cell.