


Name of the Faculty	Mr.S Rathna kumar		
Designation	Asst professor		
Date of Joining	01-09-2015		
E - Mail	Ratnakumar.eee@jbiet.edu.in		
Educational Qualifications	Name of the Degree	Institute	Class
PG	M. Tech -POWER ELECTRONICS	S.R ENGINEERING COLLEGE	First
UG	B.TECH-EEE	NARAYANA ENGINEERING COLLEGE	First
Work Experience			
Teaching	14 Years		
Research	2 Years		
Industry	-NA-		
Responsibilities held at the central level in college	<ul style="list-style-type: none"> • Transport in charge ,JNTUH,AICTE • Alumni-book printing work in central work 		
Responsibilities held at the departmental level in college	<ul style="list-style-type: none"> • JNTUH CO-ordinator • Placement in charge • NBA C-5,NAAC C-3 CO-Coordinator 		
Courses Handled at UG Level	<ul style="list-style-type: none"> • POWERSYSTEMS -1,POWERSYSTEMS –II • ELECTRICAL MACHINES -1,II,III • RES,NNFL • BEEELAB • UEE • POWER ELECTRONICS 		
Courses Handled at PG Level	<ul style="list-style-type: none"> • RES 		
Area of Research/Patents	<ul style="list-style-type: none"> • A Novel Construction Of Voltage Behavior Portrait for Renewable Energy Applications • System and Method For Electrical Energy Conservation 		
Research Guidance for M. Tech/ Ph. D Students	<ul style="list-style-type: none"> • . 		
Books/ Book Chapters Published	<ul style="list-style-type: none"> • Smart Energy Meter Monitoring & Billing using IOT. 		

	<p>PSO-MPPT Based PV</p> <p>Charging Station to Control Hybrid Boost Converter for Charging PHEV.</p> <ul style="list-style-type: none"> • 	
<p>Prominent Research Publications in Journals</p>	<p>International Journal of Engineering Research and Applications(IJERA)</p>	<p>“A SEVEN LEVEL CASCADED MULTILEVEL INVERTER BASED DYNAMIC VOLTAGE RESTORER”</p>
	<p>International Journal of Engineering Research and Applications(IJERA)</p>	<p>“DESIGN AND SIMULATION OF MULTILEVEL INVERTER BASED D-STATCOM USING P-Q THEORY”</p>
	<p>International Journal of Engineering Research and Applications(IJERA)</p>	<p>“GRID INTERCONNECTION OF WIND ENERGY SYSTEM WITH POWERQUALITY IMPROVEMENT CAPABILITIES USING FUZZY LOGIC CONTROLLER”</p>
	<p>International Journal of ELECTRICAL AND ELECTRONICS ENGINEERING(IJEEE)</p>	<p>“DESIGN AND SIMULATION OF DC INVERTER TO OPERATE AS POWER QUALITY COMPENSATOR”</p>
	<p>International journal of Engineering and Science Research</p>	<p>“A CASCADED H-BRIDGE AND NOVAL MULTILEVEL INVERTER TOPOLOGY FOR INDUCTION MOTOR DRIVES”</p>
	<p>International journal of Engineering Research and Applications (IJERA)</p>	<p>“RENEWABLE ENERGY SOURCES FOR GRID INTERCONNECTIONS AT THE DISTRIBUTION LEVEL WITH POWER QUALITY IMPROVEMENT”</p>
	<p>International journal of electrical and electronics engineering</p>	<p>“solar photo voltaic cell by using incremental conductance method with MPPT Algorithm”</p>
	<p>IJCASONLINE JOURNAL</p>	<p>Renewable Power Hybrid Distributed Generation for Rural Area: perspective</p>
<p>Online video lecture</p>	<ul style="list-style-type: none"> • https://www.youtube.com/watch?v=EODpaXNmaRU 	
<p>Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops (Attended)</p>	<ul style="list-style-type: none"> • Seminar on patent drafting and filling report • Guest Lecture on “Best Practices in Operation and Maintenance of Solar Power Plants” by Department of EEE, JBIET, Hyderabad 	
<p>Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops (Organized)</p>	<ul style="list-style-type: none"> • Workshop on “ANALYSIS AND DESIGNING OF ELECTRIC VEHICLE 	