

### 3.2 Resource Mobilization for Research (10)

#### 3.2.4 Links for Research Projects

<b>Name of the Project/ Endowments, Chairs</b>	<b>Name of the Principal Investigator/ Co Investigator</b>	<b>Name of the Funding agency</b>	<b>Link for the Projects</b>
Study on the Reclamation of Waste Land using Treated/Untreated Wastewater	Dr. S. Chandran	DST-SERB, Delhi	<a href="https://www.tce.edu/staff_profile/faculty/BECIVIL/scciv.html">https://www.tce.edu/staff_profile/faculty/BECIVIL/scciv.html</a>
Video Cognitive Services	Dr.B.Sathyabama	Honeywell, Madurai	<a href="https://www.tce.edu/staff_profile/faculty/BEECE/sbece.html">https://www.tce.edu/staff_profile/faculty/BEECE/sbece.html</a>
Video Cognitive Services	Dr.B.Yogameena	Honeywell, Madurai	<a href="https://www.tce.edu/staff_profile/faculty/BEECE/ymece.html">https://www.tce.edu/staff_profile/faculty/BEECE/ymece.html</a>
Design and development of a mixed signal test bench to the researcher under dynamic characteristics	Dr.K.Hariharan	AICTE	<a href="https://www.tce.edu/staff_profile/faculty/BEECE/khhece.html">https://www.tce.edu/staff_profile/faculty/BEECE/khhece.html</a>
Modeling and Simulation of High Electron Mobility Transistors(HEMTS) for High Frequency CMOS Applications	Dr.N.B.Balamurugan	AICTE (RPS)	<a href="https://www.tce.edu/staff_profile/faculty/BEECE/nbbece.html">https://www.tce.edu/staff_profile/faculty/BEECE/nbbece.html</a>
Analysis and Development of Design Data for RF MEMS Phase Shifters for Phased Arrays	Dr.S.Kanthamani	AICTE	<a href="https://www.tce.edu/staff_profile/faculty/BEECE/skmece.html">https://www.tce.edu/staff_profile/faculty/BEECE/skmece.html</a>
Video Cognitive Services	Dr.S.Md.Mansoor Roomi	Honeywell, Madurai	<a href="https://www.tce.edu/staff_profile/faculty/BEECE/smmrece.html">https://www.tce.edu/staff_profile/faculty/BEECE/smmrece.html</a>
Design of Neural Network Based New Demand Side Management System for Educational Institutions	Dr.S.Charles Raja	Science and Engineering research Board,DST	<a href="https://www.tce.edu/staff_profile/faculty/BEECE/screee.html">https://www.tce.edu/staff_profile/faculty/BEECE/screee.html</a>
Multifactor authentication for virtual private network	Dr.S.Muthuramalingam Mrs.C.V.Nisha Angline	AICTE - ISRO	<a href="https://www.tce.edu/staff_profile/faculty/BTECHIT/smrit.html">https://www.tce.edu/staff_profile/faculty/BTECHIT/smrit.html</a>

Virtual Reality based cognitive rehabilitation for autism children to improve their social behavior	Mrs.T.Manju Dr.D.Tamilselvi	DST	<a href="https://www.tce.edu/staff_profile/faculty/BTECHIT/tmit.html">https://www.tce.edu/staff_profile/faculty/BTECHIT/tmit.html</a>
TEQIP-III	Dr.M.Palaninatha Raja	National Project Implementation Unit	<a href="https://www.tce.edu/staff_profile/faculty/BEMECH/pnrmech.html">https://www.tce.edu/staff_profile/faculty/BEMECH/pnrmech.html</a>
Acoustic energy absorption in ferromagnetic shape memory alloys polymer composites	Dr. M. Mahendran	DST-WOS-A	<a href="https://www.tce.edu/staff_profile/faculty/MSCMS/mmphy.html">https://www.tce.edu/staff_profile/faculty/MSCMS/mmphy.html</a>
Porosity dependent structure and magnetic properties of polycrystalline ferromagnetic shape memory alloy foams	Dr. M. Mahendran	UGC-DAE-CSR Indore	<a href="https://www.tce.edu/staff_profile/faculty/MSCMS/mmphy.html">https://www.tce.edu/staff_profile/faculty/MSCMS/mmphy.html</a>
Performance study of integrated vapor compression refrigeration and bubble column humidifier operated with bio mass	Mr.Chandra	ISHRAE Student Project Grant- ISPG	
Design and Development of an Integrated Multiband Antenna for Interoperable Navigational Applications	Dr. S.Raju Dr.V.Abhai Kumar	RCI, Hyderabad	<a href="https://www.tce.edu/staff_profile/faculty/BEECE/srece.html">https://www.tce.edu/staff_profile/faculty/BEECE/srece.html</a>
Quasi- Z source cascaded multilevel inverter based Photo voltaic systems	Dr.P.S.Manoharan	UGC	<a href="https://www.tce.edu/staff_profile/faculty/BEEEEE/psmeee.html">https://www.tce.edu/staff_profile/faculty/BEEEEE/psmeee.html</a>
Development of micro channels based personal cooling system for fire fighter	Dr.G.Kumaraguruparan	Department of Science & technology, New Delhi	<a href="https://www.tce.edu/staff_profile/faculty/BEMECH/gkgmech.html">https://www.tce.edu/staff_profile/faculty/BEMECH/gkgmech.html</a>
Technical Education Quality Improvement Programme- (TEQIP-II)	Dr.M.Palaninatha Raja	National Project Implementation Unit	<a href="https://www.tce.edu/staff_profile/faculty/BEMECH/pnrmech.html">https://www.tce.edu/staff_profile/faculty/BEMECH/pnrmech.html</a>

Nano structured Ferromagnetic shape memory thin films for actuator applications	Dr. M. Mahendran	DST-SERB	<a href="http://www.serb.gov.in/emr-projects.php">http://www.serb.gov.in/emr-projects.php</a>
Magnetic and structural properties of Co and Fe substituted Ni-Mn-Sb using neutron diffraction and first principles calculations	Dr. M. Mahendran	UGC-DAE-CSR Mumbai	<a href="https://www.tce.edu/staff_profile/faculty/MSCMS/mmphy.html">https://www.tce.edu/staff_profile/faculty/MSCMS/mmphy.html</a>
Study on Utilisation of Vapour Compression refrigeration system waste heat for desalination humidification and dehumidification	Mr.Arulmani	ISHRAE Student Project Grant- ISPG	<a href="https://in.linkedin.com/in/arulmani-m-123b7882">https://in.linkedin.com/in/arulmani-m-123b7882</a>
Thermal performance evaluation of roofs in residential buildings in Madurai	DR.A.Madhumathi S.Subhashini	UGC	<a href="https://www.tce.edu/staff_profile/faculty/BARCH/ammarch.html">https://www.tce.edu/staff_profile/faculty/BARCH/ammarch.html</a>
A study on the construction of low cost hygienic Rural Toilets using Pre – Fabricated structure made up of waste plastics stone blocks(Plastone)	Dr.R.Vasudevan	Ministry of drinking water and sanitation	<a href="https://www.tce.edu/staff_profile/faculty/MSCAC/rvchem.html">https://www.tce.edu/staff_profile/faculty/MSCAC/rvchem.html</a>
Performance of Flyash Based Geopolymer Coated Aggregates – Bituminous Mixes Using Different Filler Materials	Dr.R.Velkennedy Dr.S.Nagan Mrs. D.Srividya	National Institute of Technology, Trichy.	<a href="https://www.tce.edu/staff_profile/faculty/BECIVIL/rvkci.html">https://www.tce.edu/staff_profile/faculty/BECIVIL/rvkci.html</a>
Design of Wband LNA in 130nm SiGe Process	Dr.V.Abhaikumar Dr.S.Rajaram	RCI, Hyderabad	<a href="https://www.tce.edu/staff_profile/faculty/BEECE/vakece.html">https://www.tce.edu/staff_profile/faculty/BEECE/vakece.html</a>
Investigation of Flow mal- distribution in silicon based micro channel Heat sinks.	Dr.G.Kumaraguruparan	University Grants commission , New Delhi	<a href="https://www.tce.edu/staff_profile/faculty/BEMECH/gkgmech.html">https://www.tce.edu/staff_profile/faculty/BEMECH/gkgmech.html</a>

Technical Education Quality Improvement Programme- (TEQIP-II)	Dr.M.Palaninatha Raja	National Project Implementation Unit	<a href="https://www.tce.edu/staff_profile/faculty/BEMECH/pnrmech.html">https://www.tce.edu/staff_profile/faculty/BEMECH/pnrmech.html</a>
Social Outreach Programme	Dr.S.Mercy Shalinie & Dr.K.Sundarakantham	FOSSEE-IITB	<a href="https://www.tce.edu/staff_profile/faculty/BECSE/smscse.html">https://www.tce.edu/staff_profile/faculty/BECSE/smscse.html</a>
An agent based cloud revenue model for woman empowerment in rural areas	Dr.S.Padmavathi	AICTE	<a href="https://www.tce.edu/staff_profile/faculty/BECSE/spmcse.html">https://www.tce.edu/staff_profile/faculty/BECSE/spmcse.html</a>
m-Eyecare	Dr.S.Mercy Shalinie & Dr.S.Raju	DIT	<a href="https://www.tce.edu/staff_profile/faculty/BECSE/smscse.html">https://www.tce.edu/staff_profile/faculty/BECSE/smscse.html</a>
Development and implementation of Signal processing algorithms for real time RADAR pulse parameters measurements	Dr. S.J. Thiruvengadam	DLRL	<a href="https://www.tce.edu/staff_profile/faculty/BEECE/sjtece.html">https://www.tce.edu/staff_profile/faculty/BEECE/sjtece.html</a>
Video Analytic Development System	Dr.B.Yogameena	DST, IISC Bangalore	<a href="https://www.tce.edu/staff_profile/faculty/BEECE/ymece.html">https://www.tce.edu/staff_profile/faculty/BEECE/ymece.html</a>
Development of nano composite for suppression of excess EMF radiation	Dr.V.Abhai Kumar Dr.Balaji	DST	<a href="https://www.tce.edu/staff_profile/faculty/BEECE/vakece.html">https://www.tce.edu/staff_profile/faculty/BEECE/vakece.html</a>
Aakash R&D Work	Dr.P.Karthikeyan	MHRD - IIT Bombay	<a href="https://www.tce.edu/staff_profile/faculty/BTECHIT/pkit.html">https://www.tce.edu/staff_profile/faculty/BTECHIT/pkit.html</a>
Performance Enhancement Investigation of Shell and Tube Heat exchanger for Thermal Energy Storage Applications	Dr.A.ValanArasu	AICTE, New Delhi	<a href="https://www.tce.edu/staff_profile/faculty/BEMECH/avamech.html">https://www.tce.edu/staff_profile/faculty/BEMECH/avamech.html</a>
Development of methodology/procedure for the measurement of C.G and Moment of Inertia of automotive engine and assembly	Dr.M.Palaninatharaja	UGC	<a href="https://www.tce.edu/staff_profile/faculty/BEMECH/pnrmech.html">https://www.tce.edu/staff_profile/faculty/BEMECH/pnrmech.html</a>

Establishment of Technology incubation centre at Thiagarajar college of Engineering	Dr.S.Muralidharan	Department of Science & technology, New Delhi	<a href="https://www.tce.edu/staff_profile/faculty/BEMECH/smmech.html">https://www.tce.edu/staff_profile/faculty/BEMECH/smmech.html</a>
Technical Education Quality Improvement Programme- (TEQIP-II)	Dr.M.Palaninatha Raja	National Project Implementation Unit	<a href="https://www.tce.edu/staff_profile/faculty/BEMECH/pnrmech.html">https://www.tce.edu/staff_profile/faculty/BEMECH/pnrmech.html</a>
Development of Encapsulated phosphor materials for phosphor converted white light emitting diodes (pcWLEDs) for energy saving lighting systems	Dr. M. Kottaisamy	UGC New Delhi	<a href="https://www.ugc.ac.in/pdfnews/6600642_Sciences.pdf">https://www.ugc.ac.in/pdfnews/6600642_Sciences.pdf</a>
Recovery of waste plastics from e-waste component and waste rubber from used tires	Dr. R. Vasudevan	DST	<a href="https://www.tce.edu/staff_profile/faculty/MSCAC/rvchem.html">https://www.tce.edu/staff_profile/faculty/MSCAC/rvchem.html</a>
Development of electrochemical machining process for Ti6Al4V diaphragms sponsored by CVRDE, Avadi	Dr.S.Balaji	CVRDE	<a href="https://www.tce.edu/staff_profile/faculty/MSCAC/sbchem.html">https://www.tce.edu/staff_profile/faculty/MSCAC/sbchem.html</a>
Development of LiFePO <sub>4</sub> /C, Li <sub>2</sub> FeSiO <sub>4</sub> /C Based Composite Positive Electrodes and Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Based Negative Electrode For High Power Energy storage Applications sponsored by DST, Delhi	Dr.S.Balaji	DST, Delhi	<a href="https://www.tce.edu/staff_profile/faculty/MSCAC/sbchem.html">https://www.tce.edu/staff_profile/faculty/MSCAC/sbchem.html</a>
Research study for the reuse of Wastewater(Industrial & Domestic) for irrigation in	Dr. K. Arunachalam Dr. S. Chandran Dr. T. Vel Rajan	WRO, PWD - IAMWARM	<a href="https://www.tce.edu/staff_profile/faculty/BECIVIL/kaciv.html">https://www.tce.edu/staff_profile/faculty/BECIVIL/kaciv.html</a>

Tirunelveli Corpn.			
Study on Influence of Industrial By – Products on Modified Reactive Powder Concrete (MRPC)	Dr.K. Arunachalam, Ms. M. Vigneshwari	UGC, New Delhi	<a href="https://www.tce.edu/staff_profile/faculty/BECIVIL/kaciv.html">https://www.tce.edu/staff_profile/faculty/BECIVIL/kaciv.html</a>
Environmental and Social Impact Assessment of TN-IAMWARM Project and Non Project areas for 9 sub basins	Dr.S.Chandran R.K.C. Jeykumar	PWD - TamilNadu	<a href="https://www.tce.edu/staff_profile/faculty/BECIVIL/scciv.html">https://www.tce.edu/staff_profile/faculty/BECIVIL/scciv.html</a>
Use of Agro Residual and Industrial Wastes in the Development of Ultra High Performance Concrete	Dr.K. Arunachalam, Dr. M. Kottaisamy	AICTE New Delhi	<a href="https://www.tce.edu/staff_profile/faculty/BECIVIL/kaciv.html">https://www.tce.edu/staff_profile/faculty/BECIVIL/kaciv.html</a>
Critical Component Identification And Verification For Real Time Complex Systems Using Artificial Bee Colony Based Approach	Dr.D.Jeya Mala	UGC	<a href="https://www.tce.edu/staff_profile/faculty/MCACSE/djmcse.html">https://www.tce.edu/staff_profile/faculty/MCACSE/djmcse.html</a>
Mobile based Cardiovascular disease diagnosis system for rural India	Dr.C.Deisy	AICTE	<a href="https://www.tce.edu/staff_profile/faculty/BECSE/cdcse.html">https://www.tce.edu/staff_profile/faculty/BECSE/cdcse.html</a>
Scheduling algorithm to minimize the WCET of safety critical applications on Multicore Processors	Dr.P.Chitra	UGC	<a href="https://www.ugc.ac.in/pdfnews/5998194_midterm-2013.pdf">https://www.ugc.ac.in/pdfnews/5998194_midterm-2013.pdf</a>
Deterministic Execution time analysis of Real time applications on Multicore Architectures	Dr.P.Chitra	AICTE	<a href="https://www.tce.edu/staff_profile/faculty/BECSE/pccse.html">https://www.tce.edu/staff_profile/faculty/BECSE/pccse.html</a>

Content Generation, Adaptation & distribution in M-Learning environment using mobile phone application	Dr.S.Mercy Shalinie & Dr.S.Raju	DIT	<a href="https://www.tce.edu/staff_profile/faculty/BECSE/smscse.html">https://www.tce.edu/staff_profile/faculty/BECSE/smscse.html</a>
Security Metrics for Business Information Systems using Business Analytics	Dr.T.Chandrakumar	UGC	<a href="https://www.tce.edu/staff_profile/faculty/MCACSE/tckcse.html">https://www.tce.edu/staff_profile/faculty/MCACSE/tckcse.html</a>
Synthesis of Dual band bandpass filter using particle swarm optimization techniques for wireless applications	Dr. A. Thenmozhi	UGC	<a href="https://www.ugc.ac.in/pdfnews/6600642_Sciences.pdf">https://www.ugc.ac.in/pdfnews/6600642_Sciences.pdf</a>
Victims identification in forensic odontology using dental images	Dr. A.Banumathi	UGC	<a href="https://www.ugc.ac.in/pdfnews/5998194_midterm-2013.pdf">https://www.ugc.ac.in/pdfnews/5998194_midterm-2013.pdf</a>
Development of miniaturized fractal antenna for multiband wireless applications	Dr. B Manimegalai	DRDO	<a href="https://www.tce.edu/staff_profile/faculty/BEECE/bmece.html">https://www.tce.edu/staff_profile/faculty/BEECE/bmece.html</a>
Intelligent surveillance system for Humanaction analysis	Dr. B. Yogameena	UGC	<a href="https://www.ugc.ac.in/pdfnews/6600642_Sciences.pdf">https://www.ugc.ac.in/pdfnews/6600642_Sciences.pdf</a>
Intelligent video surveillance system for crowd density estimation and human abnormal action analysis.	Dr. B. Yogameena	SERB	<a href="https://www.tce.edu/staff_profile/faculty/BEECE/ymece.html">https://www.tce.edu/staff_profile/faculty/BEECE/ymece.html</a>
Vibration control of piezoelectric actuated smart structure with changing temperature	Dr. L.R.Karlmarx	UGC	<a href="https://www.ugc.ac.in/pdfnews/6600642_Sciences.pdf">https://www.ugc.ac.in/pdfnews/6600642_Sciences.pdf</a>

Efficient channel navigation in internet protocol television (IPTV) using a novel frequency interleaved ordering scheme	Dr. MSK Manikandan	UGC	<a href="https://www.ugc.ac.in/pdfnews/6600642_Sciences.pdf">https://www.ugc.ac.in/pdfnews/6600642_Sciences.pdf</a>
Performance analysis of mobile AD-Hoc Network security	Dr. MSK Manikandan	AICTE (RPS)	<a href="https://www.tce.edu/staff_profile/faculty/BEECE/mskmece.html">https://www.tce.edu/staff_profile/faculty/BEECE/mskmece.html</a>
Modeling and simulation of Multi-gate Nanowire transistors for low power CMOS applications	Dr. N.B. Balamurugan	AICTE (RPS)	<a href="https://www.tce.edu/staff_profile/faculty/BEECE/nbbece.html">https://www.tce.edu/staff_profile/faculty/BEECE/nbbece.html</a>
Nano transmission line analysis for interconnect applications	Dr. S. Kanthamani	UGC	<a href="https://www.ugc.ac.in/pdfnews/6600642_Sciences.pdf">https://www.ugc.ac.in/pdfnews/6600642_Sciences.pdf</a>
Design and development of conformal antenna array for avionics applications	Dr.B. Manimegalai	DRDO	<a href="https://www.tce.edu/staff_profile/faculty/BEECE/bmece.html">https://www.tce.edu/staff_profile/faculty/BEECE/bmece.html</a>
GSM based ECG Tele-alert system	Dr.R.Sukanesh	UGC	<a href="https://www.tce.edu/staff_profile/faculty/BEECE/rshece.html">https://www.tce.edu/staff_profile/faculty/BEECE/rshece.html</a>
Design & development of capacitive RF MEMS shunt switch	Dr.S.Kanthamani	SERB	<a href="https://www.tce.edu/staff_profile/faculty/BEECE/skmece.html">https://www.tce.edu/staff_profile/faculty/BEECE/skmece.html</a>
Design and development of 1GHz-6Ghz ultra wide band Vivaldi antenna for airborne applications	Dr.S.Raju	DARE, Defence R&D lab Bangaore	<a href="https://www.tce.edu/staff_profile/faculty/BEECE/srece.html">https://www.tce.edu/staff_profile/faculty/BEECE/srece.html</a>
Design and development of a conformal wrap Around antenna for Navigation application	Dr.S.Raju	RCI, Hyderabad	<a href="https://www.tce.edu/staff_profile/faculty/BEECE/srece.html">https://www.tce.edu/staff_profile/faculty/BEECE/srece.html</a>

Varactor Based RFMEMS Phase Shifter for Ku Band Applications	Dr.S.Raju Dr.S.Kanthamani	Aeronautical Development Agency, Bangalore	<a href="https://www.tce.edu/staff_profile/faculty/BEECE/srece.html">https://www.tce.edu/staff_profile/faculty/BEECE/srece.html</a>
Synthesis & characterization of magneto dielectric substrate for microwave antenna applications	Dr.V.Abhaikumar Dr.S.Raju and Dr.S.Balaji	DRDO	<a href="https://www.tce.edu/staff_profile/faculty/BEECE/vakece.html">https://www.tce.edu/staff_profile/faculty/BEECE/vakece.html</a>
Investigation on Photometric Characteristics of LED and OLEDs using Integrating Sphere	Dr.P.S.Manoharan	AICTE	<a href="https://www.tce.edu/staff_profile/faculty/BEECE/psmee.html">https://www.tce.edu/staff_profile/faculty/BEECE/psmee.html</a>
Achieving Energy Efficiency in Three Phase Induction Motors: Non-destructive Winding Quality Assurance Approach	Dr.V.Prakash	UGC	<a href="https://www.tce.edu/staff_profile/faculty/BEECE/vpeee.html">https://www.tce.edu/staff_profile/faculty/BEECE/vpeee.html</a>
Design and Development of Stego Intrusion Detection System (StegoIDS) for Image Covers using Multi-core Environment	Dr.S.Geetha	AICTE - RPS	<a href="https://www.tce.edu/staff_profile/faculty/BTECHIT/sgit.html">https://www.tce.edu/staff_profile/faculty/BTECHIT/sgit.html</a>
Enterprise mobility lab	Dr.S.Muthuramalingam	Motorola Solutions Foundation	<a href="https://www.tce.edu/staff_profile/faculty/BTECHIT/smrit.html">https://www.tce.edu/staff_profile/faculty/BTECHIT/smrit.html</a>
Semi Graph Structure in DNA Computing	Dr.S.Jeya Bharathi	UGC	<a href="https://www.ugc.ac.in/pdfnews/6600642_Sciences.pdf">https://www.ugc.ac.in/pdfnews/6600642_Sciences.pdf</a>
Parameter Estimation for Parallel Communication Context Free Graph Grammar	Dr.S.Jeya Bharathi	AICTE	<a href="https://www.tce.edu/staff_profile/faculty/MSCAM/sjbmat.html">https://www.tce.edu/staff_profile/faculty/MSCAM/sjbmat.html</a>
Non Destructive Testing (NDT) of Composite Materials using texture and morphology based Scanned Electron Microscope (SEM)	Dr.S.Karthikeyan	UGC	<a href="https://www.ugc.ac.in/pdfnews/5998194_midterm-2013.pdf">https://www.ugc.ac.in/pdfnews/5998194_midterm-2013.pdf</a>

image Analysis			
Technical Education Quality Improvement Programme- (TEQIP-II)	Dr.M.Palaninatha Raja	National Project Implementation Unit	<a href="https://www.tce.edu/staff_profile/faculty/BEMECH/pnrmech.html">https://www.tce.edu/staff_profile/faculty/BEMECH/pnrmech.html</a>
Electro Machining of Titanium Alloys	Dr.M.Palaninatharaja	CVRDE, Avadi, Chennai	<a href="https://www.tce.edu/staff_profile/faculty/BEMECH/pnrmech.html">https://www.tce.edu/staff_profile/faculty/BEMECH/pnrmech.html</a>