

**Institute Research Seed Grants (RSG) Projects (2014-2015)
Sponsored by MHRD**

CIVIL ENGINEERING DEPARTMENT

S. No.	Name of the faculty	Title of the project	Fund Amount, Rs. lakhs
1	Dr. T.P. Tezeswi	Multi Scale Modeling Materials and Structures Subjected to Extreme Loading Conditions.	5.00
2	P. Venkateswara Rao	Design, Development and Prototype Production of Ceramic Pot Filters for Water Treatment	4.00
3	Dr. M.V.N Siva Kumar	Sensitivity of Seismic Vulnerability Assessment of Reinforced Concrete Structures using Fragility Curves	5.00
4	Dr. Arpan Mehra	Speed and Acceleration Behaviour of Vehicles on Highways	5.00
5	Dr. S. Shankar	Performance Evaluation of Granular treated Materials	5.00
6	Rakesh J. Palli	Constitutive Modeling of the Static and Cyclic Behaviour of Fine Grained Soil	5.00
7	G. Kalyan kumar	Seismic Hazard Analysis of Warangal City	5.00

ELECTRICAL ENGINEERING DEPARTMENT

S. No.	Name of the faculty	Title of the project	Fund Amount, Rs. lakhs
1	Dr. T. Vinay Kumar	Direct Torque Control of Five -Phase Induction Motor Drive	4.32
2	Dr. G. Siva Kumar	Load Compensation by DSTATCOM in Distribution System	4.42
3	Dr. P. Chandrasekhar	Intelligent Control of DC Micro grid	5.00

**Institute Research Seed Grants (RSG) Projects (2014-2015)
Sponsored by MHRD**

MECHANICAL ENGINEERING DEPARTMENT

S. No.	Name of the faculty	Title of the project	Fund Amount, Rs. lakhs
1	Dr. S. Kanmani Subbu	Experimental Investigator on Electric Discharge Deposition	4.00
2	Dr. D. Jaya Krishna	Investigation of corrosion on metals with phase change materials for a 30 - 100°C temperature range solar thermal heat storage applications	3.00
3	Dr. Syed Ismail	Experimental and Numerical Investigations of Lubricated Sliding Contact with Different Texture Shapes	5.00
4	Dr. Chandra mohan V.P	Estimating Initial Moisture Content of Moist Object	2.70
5	Dr. P. Vamshi Krishna	Design and Implementation of Vibration Assisted Turning Process	5.00
6	Dr. B. Karthik	Experimental Investigation for High Transfer Enhancement in Small Form Factor Devices	5.00
7	Dr. Subhankar Sen	Development of a two-dimensional finite-element solver for incompressible flow and heat transfer	2.50

METALLURGICAL AND MATERIALS ENGINEERING DEPARTMENT

S. No.	Name of the faculty	Title of the project	Fund Amount, Rs. lakhs
1	Dr. Ajoy Kumar Pandey	Development of Alumina-Zirconia-Titania Bioceramics	4.00
2	Dr. Bonta Srinivasa Rao	Development of ZrB ₂ -SiC-Si ₃ N ₄ Ceramic Composites for high Temperature Applications	5.00
3	Dr. Brahma Raju Golla	Development of High Strength Mg-Base nanocomposite with LPSO phase using Powder Metallurgy and Plasma Sintering	5.00
4	Dr. Arockia Kumar	Asymmetric Cryolloing Shape Memory Alloys	4.50

**Institute Research Seed Grants (RSG) Projects (2014-2015)
Sponsored by MHRD**

CHEMICAL ENGINEERING DEPARTMENT

S. No.	Name of the faculty	Title of the project	Fund Amount, Rs. lakhs
1	Dr. V. Ramsagar	Short term Scheduling of batch plants with strong capacity and time limitations	3.00
2	Dr. A. Seshagiri Rao	Dynamical and enhanced control of activated sludge process for waste water	4.50
3	Dr. Murali Mohan Seepana	Studies on Electrodes for Redox flow Battery	3.80
4	Dr. Vidyasagar Shilapuram	Synthesis and Application of hallow fiber memberanes	5.00
5	Dr. G. Uday Bhaskar Babu	Dynamic simulation of Vapour Recompressed batch Distillation to Minimize Energy	3.70
6	Dr. P.V. Suresh	Theoretical and Experimental Studies on flow field designs for PEM fuel cells	5.00

BIOTECHNOLOGY DEPARTMENT

S. No.	Name of the faculty	Title of the project	Fund Amount, Rs. lakhs
1	Mr. Prakash Saudagar	Identification of Noval Drug Candidates for Leishmaniasis: Studies on Redox Enzymes of the Pathogen	2.60
2	Dr. Urmila Saxena	Antibody Based Biosensors for Cancer Diagnosis	2.60
3	Ms. V. Kohila	Redesigning of Fas Receptor for Potential Cancer Therapeutic Application	4.50
4	Dr. Asim Bikas Das	Signing Network of Transcriptional Regulation in Cancer and Identification of Potential Target for Therapy	2.76
5	Mr. B. Rama Raju	Fermentable Sugars Production from Pretreated Corncobs by using Microbial Fermentation	5.00
6	Amitava Bandhu	Characterization of sigma factors of M. tuberculosis	3.35

**Institute Research Seed Grants (RSG) Projects (2014-2015)
Sponsored by MHRD**

PHYSICS DEPARTMENT

S. No.	Name of the faculty	Title of the project	Fund Amount, Rs. lakhs
1	Dr. V. Jayalakshmi	Investigation of Ordered Liquid Crystal Surface with non-Zero genus	5.00
2	Dr. Kusum Kumari	Studies in Alternate Hole Transport Layer (HTL) Materials for Organic Photovoltaic Devices	2.86
3	Dr. D. Paul Joseph	Establishment of Basic Facilities for Preparing Nanocrystalline Thin Films of Optically Transparent Conductors for Dye-Sensitized Solar cell applications	3.00

CHEMISTRY DEPARTMENT

S. No.	Name of the faculty	Title of the project	Fund Amount, Rs. lakhs
1	Dr. B. Srinivas	Synthesis, Crystal structure analysis and Biological evaluation of 4-(Pyrazolo-[1,5- <i>d</i>]-tetrazolyl)-2azetidinone derivatives	2.00
2	Dr. K. Hari Prasad	Application of <i>N</i> -Heterocyclic Carbenes in the Synthesis of Bioactive Compounds	3.00

HUMANTIES DEPARTMENT

S. No.	Name of the faculty	Title of the project	Fund Amount, Rs. lakhs
1	Dr. Madhavi Kesari	A pragmatic Approach to Analyse Common English Language Errors in Classroom Communicate of Engineering Teachers -An Empirical Study	2.00