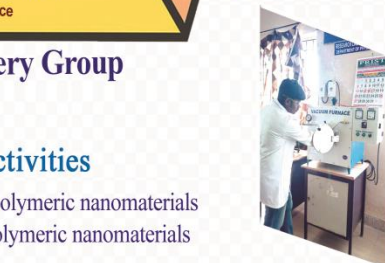




### On-going Research Activities

- Fabrication of the functional materials based on polymeric nanomaterials
- Development of energy storage materials from polymeric nanomaterials
- Structure determination of bioactive compounds
- Characterization of bioactive compounds from plant and marine source
- Ex situ conservation of endangered plants
- Molecular marker development
- Identification of novel drugs from marine source
- Molecular modeling and drug designing
- Renewable energy and environment
- Solid waste and waste water management
- Water resources and management
- Computational chemistry



## Research Faculty

Research Faculty	Field of Research
<b>Administration</b>	
Dr. S. Mohan Raj, Director, CRD	Metabolic Engineering
Dr. Ashutosh Das, Director, CEE	Waste Water Treatment and Modeling
<b>Biochemistry</b>	
Dr. S. Ilavenil	Clinical Biochemistry and Phytomedicine
Dr. A. Bakrudeen Ali Ahmed	Biochemistry
<b>Microbiology</b>	
Dr. S. Ramesh	Marine Molecular Microbiology
Dr. K. Sundar	Food Microbiology
Dr. C. Anushia	Toxicology, Biotechnology and Microbiology
Dr. A. Shajahan	Biomaterials, Biotechnology, Microbiology
<b>Biotechnology</b>	
Dr. Arjun Pandian	Plant Biotechnology and Natural Product Research
Dr. R. Arunkumar	Cancer Biology and Tumor Oncology
Dr. M. Vijay	Toxicology, Cancer Biology
Dr. S. Jonesh	Industrial Biotechnology
Dr. T. Pratheep	Biotechnology
Dr. G. Venkat Kumar	Biotechnology
Dr. R. V. Shalini	Biotechnology
<b>Physics and Material Science</b>	
Dr. M. Sivanantham	Soft Condensed Matter
Dr. S. Subashchandrabose	Functional Magnetic Materials and Computational Calculations
Dr. Ramesh Pandian	Crystallography and Biophysics / Structural Biology
Dr. L. Chinnappa	Thin films
Dr. Sutapa Ghosh	Material Science
Dr. M. Rajaboopathi	Bulk and Nanocrystals for Optical Applications
<b>Chemistry</b>	
Dr. P. Parthiban	Organic / Medicinal Chemistry
Dr. J. S. Nirmal Ram	Crystal Engineering
Dr. D. Senthilnathan	Theoretical Chemistry
Dr. J. Thulasidhasan	Medicinal Chemistry
Dr. G. Sathishkannan	Organic and Biomolecular Chemistry
<b>Pharmacy</b>	
Dr. Kailasam Koumaravelu	Pharmacogenetics
Dr. Ranezab Anish Kumar	Diabetes Research
Dr. S. Sathishkumar	Kidney Diseases
Dr. S. Santhakumari	Bacterial Cell to cell communication system
<b>Computer Sciences and Engineering</b>	
Dr. S. Nithyanantham	Image Processing
Dr. K. Saravanan	Data Mining
Dr. R. Maruthi	Algorithm Development and Image Processing
<b>Environmental Engineering</b>	
Dr. R. Sivasamandy	Remote Sensing and GIS
Dr. K. Manoharan	Environmental Biotechnology
Dr. P. Paramaguru	Environment, Development and Sustainability
<b>Mechanical Engineering</b>	
Dr. TTM. Kannan	Manufacturing Technology
<b>Electrical and Electronics Engineering</b>	
Dr. P. Avirajamanjula	Power Electronics
Dr. S. Ezhilarasan	Microgrid- Renewable Energy
<b>Electronics and Communication Engineering</b>	
Dr. N. Parvatham	VLSI Design
<b>Agriculture</b>	
Dr. B. Chandrasekaran	Dry Land Agriculture, Cropping & Farming Systems



## Achievements

Total number of publications	1897
Publications in Scopus-indexed international peer-reviewed journals	902
H-index	27
Highest impact factor	13.6
Publications in books & book chapters	31
In-house annual journal	01
Sanctioned extramural research projects	15
Patents	35
Projects under review	14
Sanctioned in-house research projects	23
International conferences/seminar/workshops/symposium conducted	06
National conferences/seminar/workshops/symposium conducted	77
Ph.D. degree awarded	191
Research collaborations (national, international and industry)	46

### Extramural Research Projects

Extramural projects sanctioned

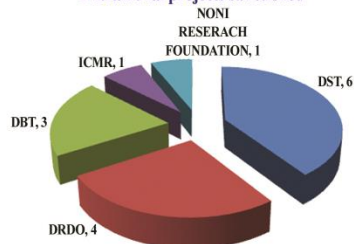


Fig. 1. Projects sanctioned

Extramural projects under review

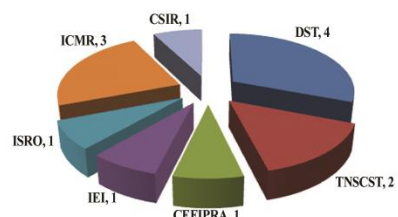


Fig. 3. Projects under review

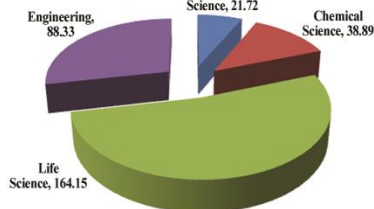


Fig. 2. Funding received - Department-wise (Amount in Lakh)

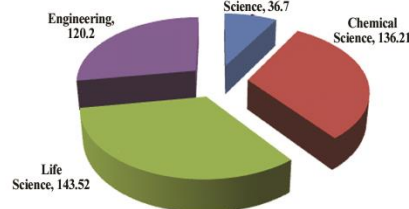


Fig. 4. Projects under review - Department-wise (Amount in Lakh)

### Consultancy Services

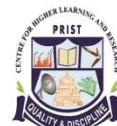
- \* Design and validation of Sewage Treatment Plants & Effluent Treatment Plants
- \* Product and process development for industries
- \* Farming system and management for agriculturists/farmers
- \* Solid waste and waste water management to industries
- \* Business support in aromatic and medicinal plants cultivation and marketing
- \* Production of bulk and fine chemicals, biomaterials and energy related products
- \* Analytical support for students, researchers, industrial and technical professionals
- \* Training programs for students and research scholars on innovative projects
- \* Pollution monitoring and control (wastewater and solid waste)

### For more information

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94425 02076



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Centre for Research  
and Development

Information  
Brochure



### About Us

- \* The centre is approved by Department for Scientific & Industrial Research, Government of India (F. No. 11/489/2008-TU V)
- \* The centre is housed in an independent, multi-storied building with state-of-the-art equipment and infrastructure to help achieve its mission
- \* The centre has dedicated laboratories for Chemical and Biomolecular Engineering, Environmental Engineering, Industrial Biotechnology, Molecular Microbiology, Analytical and Organic Chemistry, Physical Sciences, Plant Tissue Culture, Animal Biotechnology, Nanotechnology, Pharmacology, and Pharmaceuticals
- \* The centre has 40 scientists from five different research groups in science and engineering, namely (i) Functional Materials (ii) Chemical Biology (iii) Analysis and Modeling (iv) Microbial Biotechnology and (v) Drug Discovery & Development
- \* Majority of the scientists have been acting as visiting faculties in several universities across the globe
- \* The consultancy wing primarily focus on various energy, material, environment and sustainable issues