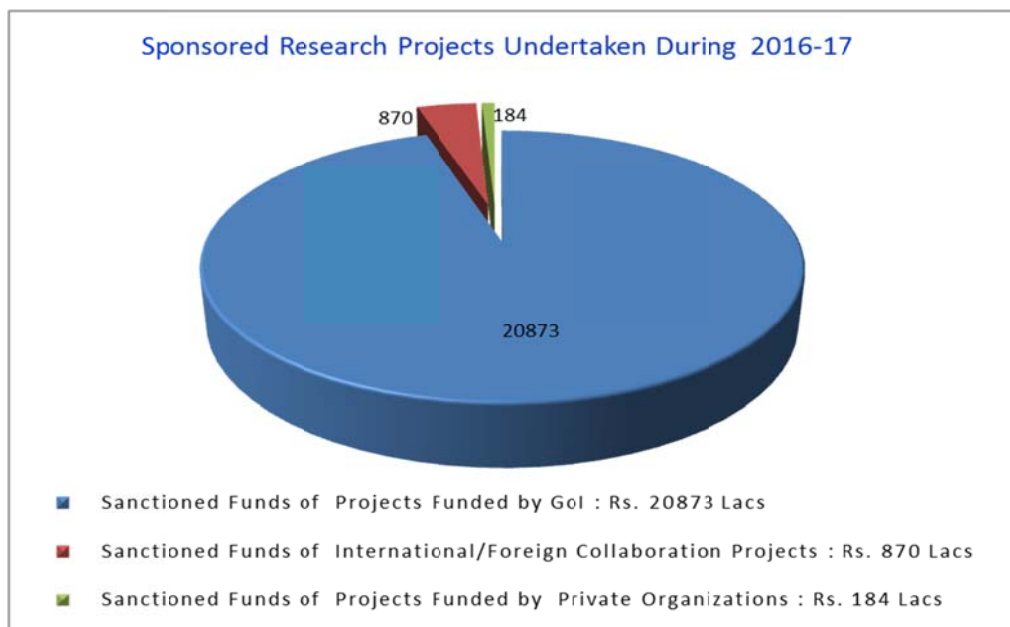
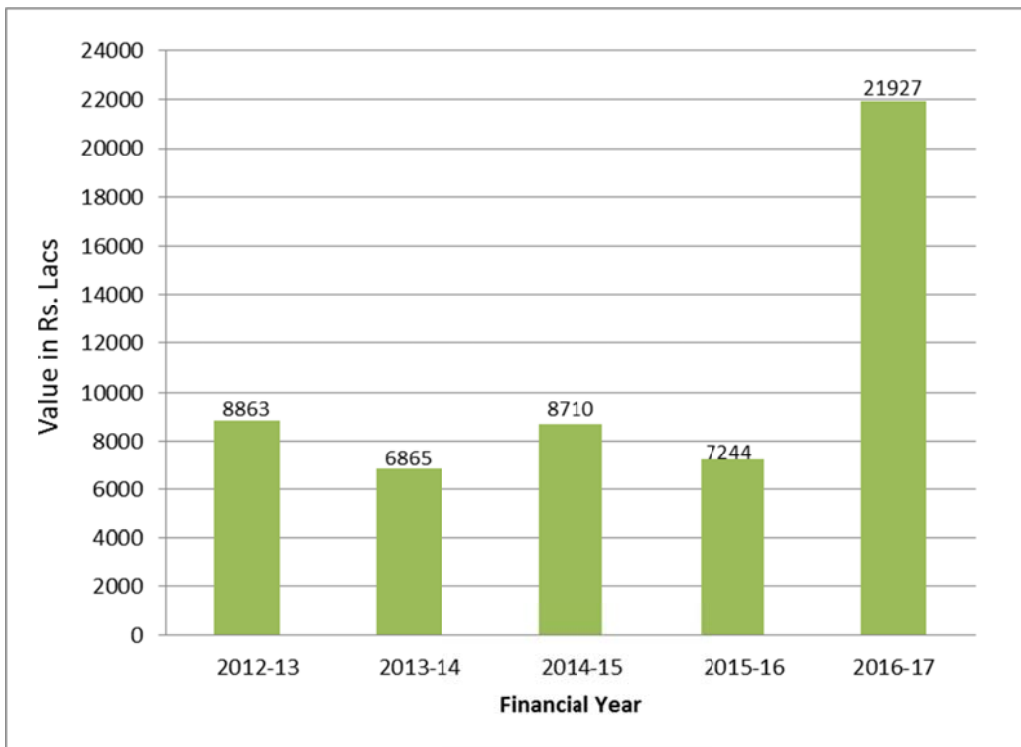


## Sponsored Research Projects Undertaken

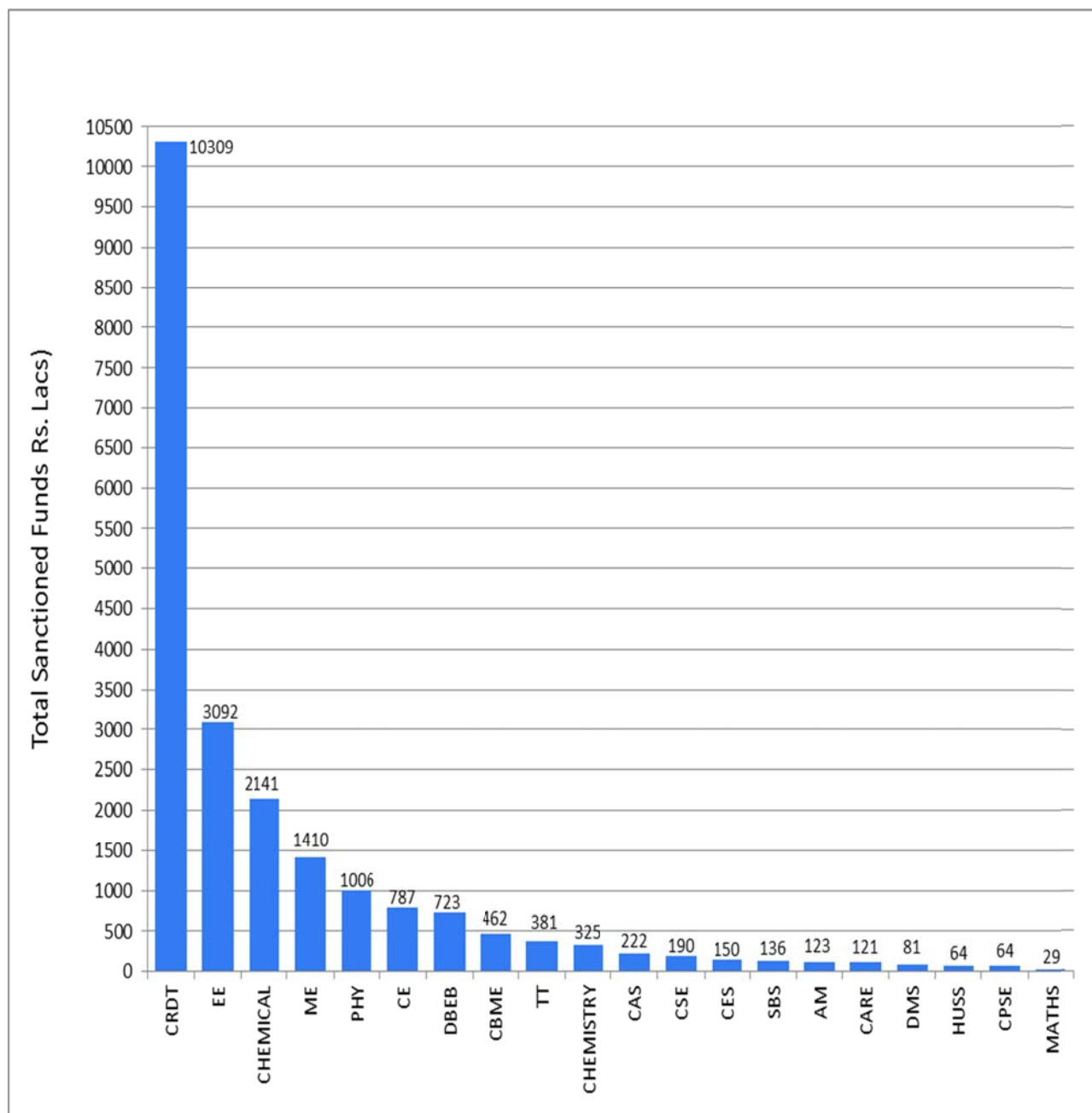
Financial Year	Sponsored Research Projects	
	Numbers	Value (Rs. Lacs)
2012-13	142	8863
2013-14	150	6865
2014-15	164	8710
2015-16	136	7244
2016-17	158	21927



## Department-wise Summary of Sponsored Research Projects Undertaken During the Financial Year 2016-17

Department	No. of Projects	Total Sanctioned Funds (Rs. Lacs)
Dept. of Applied Mechanics	6	123.40
Dept. of Biochemical Engineering & Biotechnology	9	723.32
Dept. of Chemical Engineering	15	2140.77
Dept. of Chemistry	10	325.00
Dept. of Civil Engineering	6	787.21
Dept. of Computer Science & Engg.	8	189.99
Dept. of Electrical Engineering	15	3091.73
Dept. of Humanities & Social Sciences	2	64.47
Dept. of Management Studies	6	80.59
Dept. of Mathematics	2	28.60
Dept. of Mechanical Engineering	14	1410.17
Dept. of Physics	20	1006.15
Dept. of Textile Technology	14	381.35
Centre for Applied Research in Electronics	4	121.15
Centre for Atmospheric Sciences	2	221.88
Centre for Biomedical Engineering	9	462.10
Centre for Energy Studies	3	150.29
Centre for Polymer Science & Engineering	2	63.59
Centre for Rural Development Technology	7	10309.43
School of Biological Sciences	3	135.95
Office the Director	1	109.38
<b>TOTAL</b>	<b>158</b>	<b>21926.52</b>

## Department-wise Summary of Sponsored Research Projects Undertaken During the Financial Year 2016-17



AM	Dept. of Applied Mechanics	ME	Dept. of Mechanical Engineering
DBEB	Dept. of Biochemical Engineering & Biotechnology	PHY	Dept. of Physics
CHEMICAL	Dept. of Chemical Engineering	TT	Dept. of Textile Technology
CHEMISTRY	Dept. of Chemistry	CARE	Centre for Applied Research in Electronics
CE	Dept. of Civil Engineering	CAS	Centre for Atmospheric Sciences
CSE	Dept. of Computer Science & Engg.	CBME	Centre for Biomedical Engineering
EE	Dept. of Electrical Engineering	CES	Centre for Energy Studies
HUSS	Dept. of Humanities & Social Sciences	CPSE	Centre for Polymer Science & Engineering
DMS	Dept. of Management Studies	CRDT	Centre for Rural Development Technology
MATHS	Dept. of Mathematics	SBS	School of Biological Sciences

## Major International Sponsored Research Projects Undertaken During the Financial Year 2016-17

Project Title	Sponsoring Agency	Sanctioned Funds (Rs. Lacs)	Name of Principal Investigator / Department
Multiscale Modeling, Simulation and Optimization for Energy, Advanced Materials and Manufacturing under Indo-German Partnership in Higher Education (IGP)	University of Erlangen-Nuremberg, Germany (Through UGC under Indo-German Partnership in Higher Education)	280.00	VIVEK VITTHAL BUWA Dept. of Chemical Engineering
Security in the Internet of Things Space (Centre of Excellence in Cyber Systems and Information Assurance)	Kyushu University, Japan ( through DST)	144.83	RANJAN BOSE Dept. of Electrical Engineering
From Waste Water to Bioenergy: A Microalgae Biorefinery Approach in Indian and Brazilian Scenario	Federal University of Vicosa, Federal University of Sao Carlos, Brazil (Through DBT)	104.16	ANUSHREE MALIK Centre for Rural Development Technology (CRDT)
Interplay between MgO Oxygen Vacancies and Tunneling Spin Transfer Torque	CNRS, France (through IFCPAR (CEFIPRA) )	69.89	PRANABA KISHOR MUDULI Dept. of Physics
Coarse Grain Reconfigurable Embedded Systems Technology (CREST) II Applications	KTH, Sweden (Through DST under Indo-Swedish Joint Research Project programme)	49.98	ANSHUL KUMAR Dept of Computer Science & Engg.
Rapid Pre-concentration & Detection of Pathogens in Large Volumes via Dual-Nanoparticle Targeting	Asian Office of Aerospace Research & Development (AOARD), USA	43.21	SHALINI GUPTA Dept. of Chemical Engineering
Thio-click Approach for the Synthesis of Stable Glycomimetics and Chiral Oxathiacrown Ethers	University of Debrecen, Hungary (Through DST)	36.82	NIDHI JAIN Dept. of Chemistry
Hybrid DistMult-Matrix Factorization Models for Open IE Inference	Google Inc. USA	33.90	MAUSAM Dept. of Computer Science & Engg.
Magnetic, Transport and Galvano-Magnetic Properties of Thin Films and Ribbons of Novel Heusler Alloys for Magnetic Applications	National University of Science and Technology Moscow, Russia (through DST)	26.60	RATANAMALA CHATTERJEE Dept. of Physics
Zero Valent Iron Nano-structured Materials and Nanorust: Applications in (i) Removal of Arsenic from Drinking Water, (ii) Preparing Electromagnetic Wave Absorbers in 2-18 GHz Range	Bay Zoltan Nonprofit Ltd. Applied for Research Hungary (Through DST under Indo-Hungarian Inter-Governmental Science & Technology Co-operation Programme)	19.55	RATANAMALA CHATTERJEE Dept. of Physics
Assessing the Value of ICT Based Agro-met Advisories Service to Farmers in Haryana	Swiss Federal Institute of Technology Zurich Switzerland	17.00	UPASNA SHARMA Dept. of Humanities & Social Sciences
Accelerated discovery: Microbe Test Case	ExxonMobil Global Services Company, USA	13.46	MAYA RAMANATH Dept. of Computer Science & Engg.
Development of kinetic for the methanol to formaldehyde reaction including by-product formation	Haldor Topsoe A/S, Denmark	12.60	KAMAL KISHORE PANT Dept. of Chemical Engineering

**Major Sponsored Research Projects (With Value Rs. 1 Cr. And Above) Undertaken During the Financial Year 2016-17**

S. No.	Project No.	Project Title	Sponsoring Agency	Sanctioned Funds (Rs. Lacs)	Name of Principal Investigator / Department
1	RP03221	Unnat Bharat Abhiyan	Ministry of Human Resource Development	10000.00	VIRENDRA KUMAR VIJAY Centre for Rural Development Technology (CRDT)
2	RP03232	Continuous Processing for Production of Biotech Therapeutics (under UAY scheme)	Ministry of Human Resource Development	1089.00	ANURAG SINGH RATHORE Dept. of Chemical Engineering
3	RP03246	Plasmonics Based Highly Sensitive Gas Sensing System (under UAY scheme)	Ministry of Human Resource Development	598.50	ANUJ DHAWAN Dept. of Electrical Engineering
4	RP03195	To Strengthen the research facilities in the Department of Electrical Engineering (under FIST Scheme)	Department of Science & Technology (DST)	550.00	BHIM SINGH Dept. of Electrical Engineering
5	RP03222	Design and Development of Solar PV Based Super Efficient Agricultural Pumps and Hybrid Multidimensional Inverters (under UAY scheme)	Ministry of Human Resource Development	450.08	BHIM SINGH Dept. of Electrical Engineering
6	RP03341	Design and Development of Bio-resorbable Drug Eluting Coronary Stents (under IMPRINT Project)	Ministry of Human Resource Development	399.89	NARESH BHATNAGAR Dept. of Mechanical Engineering
7	RP03242	Wide-Area Field of View CMOS Image Sensors for Aerial Surveillance for Defense Applications (under UAY scheme)	Ministry of Human Resource Development	385.06	MUKUL SARKAR Dept. of Electrical Engineering
8	RP03239	Development and Field Testing of Panic Switch Based Safety Device for Cars for Aiding Women Safety	Ministry of Electronics and Information Technology	349.96	ANOOP CHAWLA Dept. of Mechanical Engineering
9	RP03183	Advanced CNC Micromachining System with Integrated Micro Tool Manufacturing	Department of Science & Technology (DST)	317.44	SUNIL JHA Dept. of Mechanical Engineering
10	RP03263	Design of Advanced Nano-structured Materials for Novel Applications	Department of Science & Technology (DST)	307.06	BODH RAJ Dept. of Physics
11	RP03269	Low Cost Semiconductor and Optical Sensors based Urban Air Quality Monitoring Network System (SENSurAIR) (under UAY scheme)	Ministry of Human Resource Development	303.88	MUKESH KHARE Dept. of Civil Engineering
12	RP03208	Fund for Improvement of S&T Infrastructure in Universities and Higher Educational Institutions (FIST)	Department of Science & Technology (DST)	295.00	MANOJ DATTA Dept. of Civil Engineering
13	RP03279	Multiscale Modeling, Simulation and Optimization for Energy, Advanced Materials and Manufacturing under Indo-German Partnership in Higher Education (IGP)	University Grants Commission	280.00	VIVEK VITTHAL BUWA Dept. of Chemical Engineering
14	RP03303	Energy Efficiency and Occupant Comfort Management in the Built	Department of Science & Technology (DST)	261.39	SESHAN SRIRANGARAJAN Dept. of Electrical

		Environment			Engineering
15	RP03192	Development of Direct Hydro-carbon Solid Oxide Fuel Cell (SOFC)	Institute of Oil & Gas Production Technology, ONGC	254.61	SUDDHASATWA BASU Dept. of Chemical Engineering
16	RP03327	Development of an Affordable, Automated and Field Deployable, Point of Care and Contained System for Rapid Diagnosis of TB Caused by Mycobacterium Tuberculosis (Under IMPRINT Scheme)	Ministry of Human Resource Development	228.00	RAVI KRISHNAN ELANGO VAN Dept. of Biochemical Engineering & Biotechnology
17	RP03332	Artificial Skin (Bio-inspired Bi-layer Polymeric Hybrid scaffold) for Burn Injuries and Trauma Care (under IMPRINT Scheme)	Ministry of Human Resource Development	222.14	VEENA KOUL Centre for Biomedical Engineering
18	RP03238	Integration and Enablement of 0.18 Micron RF-SOI Technology for Analog Mixed-signal Applications	Department of Science & Technology (DST)	217.20	ABHISEK DIXIT Dept. of Electrical Engineering
19	RP03311	Dynamic Downscaling to Study Climate Change Impacts on Water Resources in India	Ministry of water Resources	156.65	KRISHNA MIRLE ACHUTARAO Centre for Atmospheric Sciences
20	RP03321	Security in the Internet of Things Space (Centre of Excellence in Cyber Systems and Information Assurance)	Department of Science & Technology (DST)	144.83	RANJAN BOSE Dept. of Electrical Engineering
21	RP03251	Ensuring A Safe Environment- Treatment of Emerging Contaminants (EASE-TEC)	Department of Science & Technology (DST)	140.01	SHAIKH ZIAUDDIN AHAMMAD Dept. of Biochemical Engineering & Biotechnology
22	RP03286	Studies of Fuel Saving and Emission Reduction in Large Size IC Engines using Bio-Inspired Textured Surfaces (Under UAY Scheme)	Ministry of Human Resource Development	127.62	R.K.PANDEY Dept. of Mechanical Engineering
23	RP03201	Electrical vehicle charging station as a voltage and frequency regulator within the real time capacity of the EVs available in presence of intermittent renewable energy sources	Department of Science & Technology (DST)	124.37	SUKUMAR MISHRA Dept. of Electrical Engineering
24	RP03231	Pilot Project on Development of an Economical, Eco-Friendly and Energy Efficient Process for Production of Ethanol from Lignocellulosic Biomass	Gas Authority of India Limited	115.70	SHAIKH ZIAUDDIN AHAMMAD Dept. of Biochemical Engineering & Biotechnology
25	RP03185	Demonstration and Adaptive Research of Biogas Purification & Bottling Technology for Vehicular Application	Department of Science & Technology (DST)	112.98	VIRENDRA KUMAR VIJAY Centre for Rural Development Technology
26	RP03282	Development of Lab-on-chip Platforms for Efficient and Automated Farming (LEAF)- Agricultural Sensors	Department of Science & Technology (DST)	109.38	V.RAMGOPAL RAO Office the Director
27	RP03197	From Waste Water to Bioenergy: A Microalgae Biorefinery Approach in Indian and Brazilian Scenario	Department of Biotechnology	104.16	ANUSHREE MALIK Centre for Rural Development Technology