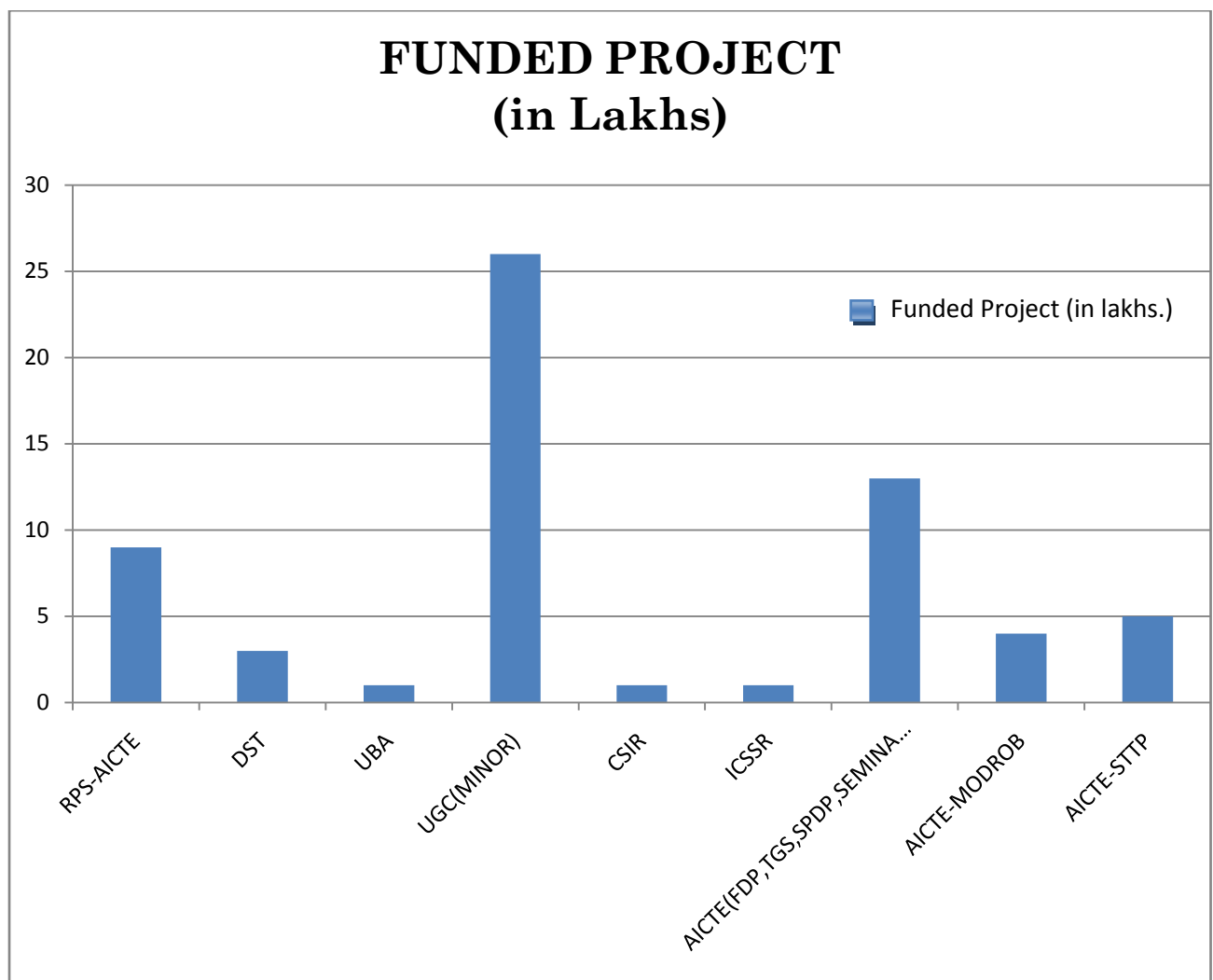


JIS College of Engineering

(An Autonomous Institution)

Research & Development Initiatives -At a Glance



Research & Development Initiatives

GRAND FOR RESEARCH PROJECTS SPONSORED BY THE GOVT./NON-GOVT.SOURCES

SI No.	Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/ Co Investigator	Name of the Funding agency	Funds provided (INR in lakhs)	Status
1	RPS	Dr. Papun Biswas	RPS-AICTE		Ongoing
2	DST-FIST	Dr. Sabyasachi Sen & Dr. Papun Biswas	DST	Rs. 60 lakhs	Ongoing
3	A Project proposal on Utilization of Bio Gas as an alternative cooking gas(LPG) at Canteen of JIS College of Engineering, Kalyani	PI: Mr. Rakesh Naskar	UBA – Unnat Bharat Abhiyan 1 - 3351888902		Ongoing
4	Insilico design of multifunctional spin diode with spin valve action	PI: Dr. Sabyasachi Sen	AICTE (RPS) 1 - 3351581711	Rs. 24.69 lakhs	Ongoing
5	Integrated inventory systems with supply chain contracts constrained and featured with some realistic issues	PI: Mr. Rupak Bhattacharjee	UGC (Minor) ROMRP-ERO-MATH- 2015-16-6578	Rs. 1.9 lakhs	Ongoing
6	Neural gain causes Chaos in a neural network with small-world connection	PI: Dr. Santanu Mondal	UGC (Minor) ROMRP-ERO-MATH- 2015-16-64453	Rs. 1.8 lakhs	Ongoing
7	Carrier Award for Young Teachers (CAYT)	PI: Dr. Biswarup Neogy	AICTE (CAYT) 11- 45/RIFD/CAYT/POL- I/2014-15 dt. 16.03.2015	Rs. 3.4 lakhs	Ongoing
8	A spirometric study on smokers and non-smokers engineering students	PI: Mr. Souvik Das	UGC (Minor) PSW -191/14- 15(ERO)dt. 03.02.2015	Rs. 4.0 lakhs	Complete d

9	Diagnosis of Heart diseases Using QRS Complex detection	PI: Sayanthi Chattopadhyay	UGC (Minor) PSW -199/14-15(ERO) dt. 03.02.2015	Rs. 4.2 lakhs	Completed
10	Design approach of sophisticated computational and cyber interaction for several types of cerebral palsy patient	PI: Dr. Biswarup Neogi	UGC (Minor) PSW -194/14-15(ERO) dt. 03.02.2015	Rs. 3.4 lakhs	Completed
11	Bandwidth and gain enhancement of microstrip antenna	PI: Indranath Sarkar	UGC (Minor) PSW -195/14-15(ERO) dt. 03.02.2015	Rs. 5.0 lakhs	Completed
12	Low cost RFID based automatics DAS and PD in public transport	PI: Anirban Patra	UGC (Minor) PSW -192/14-15(ERO) dt. 03.02.2015	Rs. 0.8 lakhs	Completed
13	Modelling and validation of radio signal attenuation to tropical cloud.	PI: Swastika Chakraborty	UGC (Minor) PSW -193/14-15(ERO) dt. 03.02.2015	Rs.4.75 lakhs	Completed
14	Methodology for unique identification using stereo. Ret. Image	PI: Moumita Paul	UGC (Minor) PSW -190/14-15(ERO) dt. 03.02.2015	Rs.4.7 lakhs	Completed
15	Androgen: An android approach to restore ability, productivity and agility of old people	PI:Mr. Soham Sengupta	UGC (Minor) F.No: PSW-199/14-15	Rs. 1. 75 lakhs	Completed
16	Segmentation Based Clustering and Graphical Approaches for Detecting Stages of Colon Cancer	PI: Ms. Debasree Mitra	UGC (Minor) F.No: PSW-198/14-15	Rs. 3.00 lakhs	Completed
17	Rural Health Care Development Using Vehicular and Sensor Network	PI: Suparna Dasgupta	UGC (Minor) F.No: PSW-197/14-15	Rs. 2.85 lakhs	Completed

18	Effect of Strained Silicon in Low Power Low Voltage High Speed Circuit Design	PI: Mr. Prolay Ghosh	UGC (Minor) F.No: PSW-196/14-15 (ERO)	Rs. 4.20 lakhs	Completed
19	Synthesis of Nanocellulose from Bamboo fiber to develop polymer Nanocomposit suitable as Biodegradable Packaging Material.	PI: Dr. Mahuya Das	UGC (Minor) PSW-184/13-14 dt 02-09-2014	Rs. 2.60 lakh	Completed
20	Development of cost effective real time acquisition, processing, analyzing and monitoring system of bio-signals for non-invasive diagnosis and prediction of cardiovascular abnormalities.	PI: Dr. Meghmala Dutta	UGC (Minor) PSW-182/13-14 dt 02-09-2014	Rs. 4.7 lakhs	Completed
21	Development of Bone Paste from Waste Egg-Shell for Bone Grafting	PI: Dr. Sandip Bag	UGC (Minor) PSW-191/13-14 dt 02-09-2014	Rs. 3.75 lakhs	Completed
22	Metal free ferromagnets and their potential applications as spintronic device: An in silico study	PI: Dr. Sabyasachi Sen	UGC (Minor) No. PSW-190/13-14 (ERO) ID NO. SFWBUT-002 Date: 19 August 2014 -2 Sep 2014	Rs. 4.7 lakhs	Completed
23	Development of database on electronic referrals for health care in West Bengal	PI: Dr. Suvronil Som	UGC (Minor) PSW-185/13-14 dt 02-09-2014	Rs. 3.38 lakhs	Completed
24	Synthesis of Silver Bionanocomposit through reduction route	PI: Mr. Tanmoy Dutta	UGC (Minor) PSW-183/13-14 dt 02-09-2014	Rs. 2.50 lakhs	Completed
25	Study of arsenic removal from contaminated water through solid membrane	PI: Mrs. Trina Dutta	UGC (Minor) PSW-188/13-14 dt 02-09-2014	Rs. 2.05 lakhs	Completed

26	The cognitive mechatronic fire extinguisher vehicle with obstracle detection an bypass	PI:Mr. Sumanta Chatterjee	UGC (Minor) PSW-187/13-14 dt 02-09-2014	Rs. 2.6 lakhs	Completed
27	Design of an interhuman unimodal biometric authentication system.	PI: Monalisa Dey	UGC (Minor) PSW-192/13-14 dt 02-09-2014	Rs. 3.06 lakhs	Completed
28	FPGA Based Implementation of a MAC unit for Digital Signal Processors	PI: Satrughna Singha	UGC (Minor) PSW-186/13-14 dt 02-09-2014	Rs. 4 lakhs	Completed
29	Computational Studies on Novel Channel Materials for MOSFET Applications	PI: Dr. Swagata Bhattacharya	UGC (Minor) No. PSW-189/13-14 (ERO) ID NO. SFWBUT-002 Date: 19 August 2014 -2 Sep 2014	Rs. 4.7 lakhs	Completed
30	Metal free ferromagnets and their potential applications as spintronic device: An in silico study	PI: Dr. Sabyasachi Sen	UGC (Minor) No. PSW-190/13-14 (ERO) ID NO. SFWBUT-002 Date: 19 August 2014 -2 Sep 2014	Rs. 4.7 lakhs	Completed
31	Design & Development of a Cardiac parameter Monitoring System using common mobile phone for affordable patient care	PI: Dr. Meghmala Dutta & Dr. Somsubhra Gupta	AICTE (RPS) 20/AICTE/RIFD/RPS (Policy-1)32/2013-14	Rs. 10.55 lakhs	Completed
32	Produce the knowledge based database of electromyography (EMG) signal to enrich the interpretation technique for different human arm movement.	PI: Dr. Biswarup Neogi	AICTE (RPS) 20/AICTE/RIFD/RPS(Policy-IV)24/2012-13 dt. March 16, 2014	Rs. 11.33 lakhs	Completed

33	Solar Photovoltaic hybridization with usual grid to compensate peak load demand at JIS College of Engineering Kalyani.	PI: Rakesh Naskar	AICTE (RPS) 20/AICTE/RIFD/RPS(Policy-IV)24/2012-13 dt. March 16, 2014	Rs. 8 lakhs	Completed
34	Natural language processor incorporating auto-debugger under the framework of machine intelligence.	PI: Dr. Somsubhra Gupta	AICTE (RPS) No: 20/AICTE/RIFD/RPS (POLICY-1) 33/2013-14	Rs. 2. 67 lakhs	Completed
35	'In silico design of novel molecular spintronic devices through nonequilibrium Green's function technique'	PI: Dr. Sabyasachi Sen	CSIR [letter No. 03(1256)/12/EMR-II Dated:06-11-2012]	Rs. 14.64 lakhs	Completed
36	Research Project under ICSSR	PI: Dr. S. K. Dawn	ICSSR 2-154/2010-RP Dt. 25.01.2011	Rs. 4.89 lakhs	Completed
37	In silico design of novel molecular rectifier and spin filter through nonequilibrium Green's function technique"	PI: Dr. Sabyasachi Sen	DST (FAST TRACK) [D.O. No. SR/FTP/PS-85/2009]	Rs. 4.2 lakhs	Completed
38	Project under RPS Scheme	PI: Dr. Debesh Chowdhury	AICTE (RPS) 8023/BOR/RID/RPS-112/2008-09 dt. March 12, 2009	Rs. 3.75 Lakhs	Completed
39	Project under RPS Scheme	PI: Dr. S.K.Chowdhury	AICTE (RPS) 8023/BOR/RID/RPS-94/2007-08 dt. March 5, 2008	Rs. 5,00000/-	Completed
40	Carrier Award for Young Teachers (CAYT)	PI: Dr. Biswarup Neogy	AICTE (CAYT) 11-45/RIFD/CAYT/POL-I/2014-15 dt. 16.03.2015	Rs. 3,40,000/-	

41	Conduction of Short Term Training Programme during financial year 2018-19	Dr. Trina Dutta	STTP-AICTE	Rs. 3.18 lakhs	Completed
42	PRERANA-Programme Centre for SC/ST Students of the Dept. of Electrical Engineering.	Dr. Papun Biswas	PRERANA-AICTE	Rs. 5.33 lakhs	
43	Conduction of FDP programme	Dr. Sabyasachi Sen	FDP-AICTE	Rs. 5.25 lakhs	
44	Travel Grant for International Conference	Dr. Papun Biswas	TGS-AICTE	Rs. 1.08 lakhs	
45	SPDP	Dr. Anindya Guha	SPDP-AICTE	Rs. 10.66 lakhs	
46	STTP on Electrical Engineering	Dr. Papun Biswas	STTP-AICTE	Rs. 2.8 lakhs	
47	DST-FIST	Dr. Sabyasachi Sen & Dr. Papun Biswas	DST	Rs. 60 lakhs	
48	STTP	Dr. Sabyasachi Sen	STTP-AICTE	Rs. 3 lakhs	
49	RPS	Dr. Papun Biswas	RPS-AICTE	Rs. 3 lakhs	
50	STTP	Dr. Debasish Majumder	STTP-AICTE	Rs. 3 lakhs	
51	STTP	Dr. Souvik Paul	STTP-AICTE	Rs. 3 lakhs	
52	FDP	PI: Dr. Suman Kr. Dawn	AICTE 25/RIFD/FDP/P(1)/2014-15 dt. 18.11.2014	Rs. 600000/-	Completed
53	Project Under MODROB	PI: HOD, CSE	AICTE (MODROB) 12/AICTE/RIFD/MOD(Policy-4)Pvt-52/2012-13 dt. 11.07.2013	Rs. 8,90,000/-	Completed
54	Seminar Grant	PI: Dr. Biswarup Neogy AICTE	22/AICTE/RIFD/SEM/(policy2)22/2012-13 dt. December4, 2012	Rs. 1,25,000/-	Completed

55	Seminar Grant	PI: Dr. Suman Kr. Dawn	AICTE RIFD/SEM/177/2011-12 Dt. 28.02.2012	Rs. 1,00,000/-	Completed
56	Seminar Grant	PI: Dr. Subrata Kumar Mitra	AICTE RIFD/SEM/50/2010-11 dt. 23.02.2011	Rs. 1,50,000/-	Completed
57	Seminar Grant	PI: Dr. Meghamala Datta	AICTE RIFD/SEM/49/2010-11 dt. 23.02.2011	Rs. 1,50,000/-	Completed
58	Seminar Grant	PI: Dr. Sabyasachi Sen	AICTE RIFD/SEM/67/2011-12 Dt. 30.11.2011	Rs.40,000/ -	Completed
59	Seminar Grant	PI: Dr. Somsubhra Gupta	AICTE 1-4/RID/SEM/99/09/10 Dt. 5.01.2010	Rs. 37,500/-	Completed
60	Seminar Grant	PI: Mr. Nilotpal Manna	AICTE 1-4/RID/SEM/99/09/10 Dt. 5.01.2010	Rs. 30,000/-	Completed
61	Project under MODROB		AICTE (MODROB) 8024/RID/BOR/MOD/926/9/10 dt. 12.02.2010	Rs. 14,90,000/ -	Completed
62	Project under EDC: Plan Grant	PI: Ms. Sila S. Ghosh	AICTE 8022/RID/EDC (91.)/2008-09 dt. March 31, 2009	Rs. 6,92,000/-	Completed
63	Project under IIPC: Plan Grant	PI: Ms. Sila S. Ghosh	AICTE 8020/RID/IIPC(7)/2008-09 dt. December 29, 2008	Rs. 8,00,000/-	Completed
64	Project Under MODROB	PI: HOD, EE	AICTE (MODROB) 8024/RID/BOR/MOD-37/2008-09 dt. December4, 2008	Rs. 8,45,000/-	Completed

65	Project Under MODROB	PI: HOD, IT	AICTE (MODROB) 8023/RID/BOR/MOD- 414/2007-08 dt. June 20, 2008	Rs. 11,00000/-	Complete d
66	UGC Minor Project	Tanmoy Dutta	UGC	Rs. 250000	Complete d