

## Major research projects completed/under process:

S.No.	Name of Agency	Faculty Name	Title of project/Team members	Total Amount (Indian Rupees) and the period of support	Status
1.	DEFENSE RESEARCH AND DEVELOPMENT ORGANISATION (DRDO) NEW DELHI (GOVT. OF INDIA)	<b>Dr. Ghanshyam Singh</b>	“Design and simulation of tunable photonic crystal structures for novel all optical applications” <i>Principal Investigator (P.I.): Dr. Vijay Janyani, Co-PI: Dr. Ghanshyam Singh, Dr. R. P. Yadav</i>	Rs. 1564000 (2009 – 2012)	<b>Completed</b>
2.	<b>INDIA-JAPAN COOPERATIVE SCIENCE PROGRAMME (DST-JSPS JOINT RESEARCH PROJECT:</b>	<b>Ghanshyam Singh</b>	“Design and Development of Micro-structured Optical Components for Photonic Integrated Circuit (PICs) applications” <i>Japanese PI: Dr. Hiroyuki Tsuda, KEIO University, Yagami campus (Tokyo)</i>	Rs. 456000 (Indian component) (June 2014 - March 2016)	<b>Completed</b>
3.	<b>INDIA – AUSTRIA SCIENTIFIC-TECHNOLOGICAL CO-OPERATION</b>	Dr .C. Periasamy, Co-PI: Dr. Ghanshyam Singh	“Design and Development of Nanostructured ZnO Film Based Piezoelectric Devices for Energy Harvesting Applications” PI : Dr .C. Periasamy, Co-PI: Dr. Ghanshyam Singh	Rs. 550000 (Indian component) (June 2015 - May 2017)	<b>In progress</b>
4.	<b>INDIA-UKRAINE INTER-GOVERNMENTAL SCIENCE &amp; TECHNOLOGY COOPERATION PROGRAMME</b>	<b>Dr. Ghanshyam Singh</b>	“Modeling and characterization of Lithium Niobate (LiNbO <sub>3</sub> ) based optical devices using surface geometric techniques for their applications in Integrated Optical Circuits (IOCs)” <i>Ukrainian PI: Dr. Buryy Oleh Anatolievych, Lviv Polytechnic National University (Ukraine)</i>	Rs. 1078440 (Indian component) (July 2015 - May 2017)	<b>In progress</b>
5.	Science &Engg. Research Board (SERB)	<b>Dr. C. Periasamy (PI)</b>	Design and Development of AlGaIn/GaN High Electron Mobility Transistors (HEMTs) for Biosensing Applications (2015-2019)	20.96 (2015-2019)	
6.	India(DST) And Austria (BMWf) Scientific-Technological Co-Operation Programme	<b>Dr. C. Periasamy (PI)</b> Dr.Ghanshyam Singh (Co-PI) Austria Dr. V. Skakalova (PI) Dr. B. Bayer (Co-PI) (Univ. of Vienna ,Austria)	Design and Development of Nanostructured ZnO Film Based Piezoelectric Devices for Energy Harvesting Applications (2015-2017)	10.00 (2015-2017)	
7.	Research grant	<b>Dr. C. Periasamy(PI)</b>	Research grant (2016-2020)	37.00 (2016-2020)	
8.	Development of Piezoelectric Nanogenerator for Energy Harvesting	<b>Dr. C. Periasamy(PI)</b>	Development of Piezoelectric Nanogenerator for Energy Harvesting Applications	11.00	

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	Applications		(2015-2017)	(2015-2017)	
9.	Efficiency Enhancement in the Thin Film GaAs Solar Cell Using Photonic Crystal as a Back Reflector	Dr. Vijay Janyani (PI) <b>Dr. C. Periasamy (Co-PI)</b>	Efficiency Enhancement in the Thin Film GaAs Solar Cell Using Photonic Crystal as a Back Reflector (2015-2018)	39.30 (2015-2018)	
10.	DEITY	<b>Dr. Ravi Kumar Maddila</b>	Integrated optic devices for visible light communication	37.00 2016-2021	
11.	DST Rajasthan	<b>Dr. Ritu Sharma</b>	New architectures of elliptical air hole photonic crystal fiber for ultra flattened dispersion	1.60 2013-2016	
12.	IITM Kanpur	<b>Dr. Ritu Sharma</b>	Design and simulation of cantilever type MEMS based piezoelectric energy harvester	2.00 2016-2018	
13.	Ministry of Indian Railway	<b>Prof. K.K. Sharma</b>	Short term training programme to the supervisors of Indian. Railways	2015	<b>Completed</b>
14.	Ministry of Indian Railway	<b>Prof. K.K. Sharma</b>	Short term training programme to the supervisors of Indian. Railways	2016	<b>Completed</b>
15.	DST New Delhi	<b>Dr. V. Janyani</b>	Efficiency Enhancement in the thin film GaAs solar cell using Photonic Crystal as a back reflector	39.60 2015-2018	<b>Ongoing</b>
16.	Deity Ministry of Comm. & IT Govt. of India	<b>Prof. D. Boolchandani</b>	Special Manpower Development Program for Chips to System Design Project	75.00 2014-2019	<b>Ongoing</b>
17.	Ministry of CIT	<b>Prof. D. Boolchandani</b>	Special Manpower Development Project in VLSI & related Software, Phase 2	104.00 2005-2013	<b>Completed</b>
18.	Ministry of CIT	<b>Prof. V. Sahula</b>	Special Manpower Development Project in VLSI & related Software, Phase 2	104.00 lac 2005-2013	
19.	DeitY Ministry of Comm. & IT, Govt. of India	<b>Prof. V. Sahula</b>	Electronics and ICT Academy	10 crore 2014-2014	