

3.1.1 Grants for research projects sponsored by the government/non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution during the last five years (3) and for

3.1.3 Number of research projects per teacher funded by government and non-government agencies during the last five years (For UG Colleges weightage of this metric will be 7) (4)

Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/Co-investigator	Department of Principal Investigator	Year of Award	Amount Sanctioned	Duration of the project	Name of the Funding Agency	Type (Government/non-Government)
"Synthesis, Characterization and Electrochemical Device Applications of Nanocomposite Polymer Electrolyte Membrane"	Dr. Angesh Kumar Chandra	Physics	2017	25.06 Lakh	3 Years	DST, New Delhi	Government
Ion conducting hot-pressed polymer electrolytes: synthesis, characterization and applications	Dr. Angesh Kumar Chandra	Physics	2015	5.00 Lakh	3 Years	CGCOST, Raipur	Government
Mutual coupling reduction in planner compact antenna for mid band 5G wireless application	Mr. Upendra Soni SSIPMT Raipur	Electronics and Telecommunication	2019	2,50,000	1 year	TEQIP III	Government
Electroluminescence studies of SrAl <sub>2</sub> O <sub>4</sub> : Eu <sup>2+</sup> , Dy <sup>3+</sup> thin films of EL based device applications.	Dr. Dharendra Singh Kshatri, SSIPMT Raipur, Dr. Shubra Mishra SSIPMT Raipur	Physics	2019	2,00,000	1 year	TEQIP III	Government
Determination of paraquat pesticides in vegetable and water sample using silver non particles at raipur district	Dr. Rakesh Singh Dhundhel SSIPMT Raipur	Chemistry	2019	1,50,000	1 year	TEQIP III	Government
Key barriers in the growth of engineering education in chhattisgarh state :a fuzzy kano and TISM integrated approach	Mr. Naveen Jain SSIPMT Raipur	Mechanical	2019	1,00,000	1 year	TEQIP III	Government
Smart bike device for automating a two wheeler vehicle crash detection using machine learning and internet of things	Dr. J.P. Patra SSIPMT Raipur Dr. Mrs. Surnitra Samal, SSIPMT Raipur	Computer science	2019	2,00,000	1 year	TEQIP III	Government
Production of ethanol biofuel and manure by utilizing different types of agro and animal waste	Mr. Manish Sakhlecha SSIPMT Raipur, Mr. Toshan Singh Rathour SSIPMT Raipur	Civil	2019	3,00,000	1 year	TEQIP III	Government

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Assessment of environmental footprint of building from life cycle perspective in context of Indian building sector	Mr.Manish Sakhlecha SSIPMT Raipur Mohd. Pravej Alam SSIPMT Raipur	Civil	2019	2,50,000	1 year	TEQIP III	Government
Effect on properties on geo-polymer concrete with particle replacement of fine aggregate by crusher stone	Mr. Toshan singh Rathour SSIPMT Raipur	Civil	2019	180000	1 year	TEQIP III	Government
Determination of organophosphorous pesticides in vegetable and water sample at abhanpur area	Dr. Rakesh Sing Dhundhel SSIPMT Raipur	Chemistry	2019	150000	1 year	TEQIP III	Government
design and fabrication of low cost electric two wheeler	Mr. Atul Chakrawarti SSIPMT Raipur	Mechanical	2019	250000	1 year	TEQIP III	Government
Sickle cell disease smart solution	Mr. Sumit Kumar Roy, SSIPMT Raipur	Electronics and Telecommunication	2019	150000	1 year	TEQIP III	Government
Thermal uminescence studies of some mineral (quartz, calcite, limestone) of Chhattisgarh basin	Dr. Angesh Chandra SSIPMT Raipur	Physics	2019	180000	1 year	TEQIP III	Government
Efficient algorithms based on competent energy consumption using cross layer network in WSNS	Dr. Hernlata Sinha SSIPMT Raipur	Electronics and Telecommunication	2019	170000	1 year	TEQIP III	Government
Fingerprint based home security	Mr. Deepak rao khadatkar SSIPMT Raipur	Computer science	2019	130000	1 year	TEQIP III	Government
Using AD-hoc on demand distance vector technique for identifying sink hole attack in wire less sensor network	Mr. Ashish Trivedi SSIPMT Raipur	Computer science	2019	170000	1 year	TEQIP III	Government
Design and fabrication and analysis of semi auto rise transplanter	Pradeep Kumar sahu SSIPMT Raipur	Mechanical	2019	250000	1 year	TEQIP III	Government
Design of digital signature scheme and their application	Dr. Manoj Kumar Chan de SSIPMT, Raipur	Applied Mathematics	2019	130000	1 year	TEQIP III	Government
An algorithm to reduce successive interference in multipath advance wireless channel	Dr.Hemlata Sinha, SSIPMT Raipur, Mr. Sumit Kumar Roy, SSIPMT Raipur	Electronics and Telecommunication	2019	160000	1 year	TEQIP III	Government
Nanocomposite polymer electrolytes synthesis ion conduction and device fabrication	Dr. Angesh Kumar Chandra SSIPMT Raipur	Physics	2019	150000	1 year	TEQIP III	Government
Luminescence behaviour of rare earth activatd SrAl <sub>2</sub> O <sub>4</sub> and ZrO <sub>2</sub> nano-phosphors and their application for deformation dtection technique with possi bilities of their integration wih MEMS device	Taranjeet Sachdev SSIPMT Raipur	Mechanical	2019	200000	1 year	TEQIP III	Government

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Prediction of driving route and malicious identification	MR. Gurudatta Verma SSIPMT Raipur	Computer science	2019	150000	1 year	TEQIP III	Government
An innovative waste management system for segregation of trash into wet & dry through IOT Based machine and decomposition of wet trash to produce manure	Dr. J.P. Patra SSIPMT Raipur, Gu rudatta Verma SSIPMT Raipur	Computer science	2019	150000	1 year	TEQIP III	Government
Effect of La <sup>3+</sup> Doping on the Structural and Optical Properties of electron beam evaporation deposited on SrS thin films	Dr. Shubhra Mishra SSIPMT Raipur, Dr Dhirendra Singh Kshatri SSIPMT Raipur	Physics	2019	200000	1 year	TEQIP III	Government
Synthesis characterization and bacterial activity of Phosphate ester having C-N-P linkage	Dr. Jaya singh	Chemistry	2019	200000	1 year	TEQIP III	Government