

SAMBALPUR UNIVERSITY
JYOTI VIHAR, BURLA
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Research Projects of Sambalpur University (2021-2022)

Name of the Scheme/Project/ Endowments/ Chairs	Name of the Principal Investigator/ Co Investigator (if applicable)	Name of the Funding agency	Type (Government/Non-Government)	Department	Year of Award	Funds provided (INR in lakhs)	Duration of the project
DBT-BUILDER Project Coordinator	Prof P.K. Naik (Project Coordinator)	DBT, Govt. of India	Government	Dept. of Biotechnology & Bioinformatics	2021	480.00	5 Years
Optimization of natural anticancer agent, Noscapine by rational design of its derivatives: chemical synthesis and preclinical evaluation for the management of breast cancer.	Prof P.K. Naik PI	ICMR	Government	Dept. of Biotechnology & Bioinformatics	2021	48.41	3 years
Elucidation of the distribution pattern of human pancreatic Islets (α - and β - cells) and association mapping with myosin-VA motor proteins	Prof P.K. Naik, PI	ICMR	Government	Dept. of Biotechnology & Bioinformatics	2021	21.00	3 years

Design and development of molecular materials for semi-transparent and flexible organic solar cell	Dr. Amaresh Mishra	Science and Technolgy Department, Govt. of Odisha	Government	Chemistry	2021	9.21	3 years
Design and Development of Coumarin based photoactive molecules for efficient and stable ternary semitransparent and flexible organic solar cells	Dr. Amaresh Mishra	SERB-Science and Technolgy Department, Govt. of India	Government	Chemistry	2021	43.00	3 years
Studies on cobalt complexes as potent self-activating chemical nucleases implication in the treatment of cancer	Dr. Nabakrushna Behera	Science and Technolgy Department, Govt. of Odisha	Government	Chemistry	2021	8.5	3 years
Development of broad-spectrum peptide-based entry inhibitors to combat emerging and re-emerging viral infections	Dr. HIRAK Chakraborty	SERB-STAR, Science and Technolgy Department, Govt. of India	Government	Chemistry	2021	38.5	3years
Exploring the interplay of viral fusion peptide with lipid membranes to unravel the mechanism underlying the cellular entry of enveloped viruses	Dr. HIRAK Chakraborty	CRG, SERB-Science and Technolgy Department, Govt. Of India	Government	Chemistry	2021	61.8	3years
Odisha University Research and Innovation Incentivization Plan	Dr. Sibarama Panigrahi	Odisha State Higher Education Council	Government	Computer Science and Engineering	2021	4.5	2 Years
Design and Implementation of Low-complexity wavelet encoder using approximate	Dr. Basant Kumar Mohanty	Science and Engineering Research Board,	Government	Electronics and communication Engineering	2021	24.57	3 Years

computations for wireless visual sensor network applications		Department of Science and Technology					
OURIIP (Odisha University Research and Innovation Incentivisation Plan)	Dr. Ajit Kumar Kullu	Odisha Higher Education Council, Department of Higher Education, Government of Odisha	Government	English	2021	4.9	2 Years
Entrepreneurship Development Program for Development of Value Added Products from Mahua Flowers and Moringa	Prof. P.K. Naik, Program Coordinator	DBT, Govt. of India	Government	Dept. of Biotechnology & Bioinformatics	2022	94.5	3 years
“Studies on Solid Waste Disposal Site of BPSL at Derba, with possible Stabilisation”	Investigators: Prof. S. K. Sahu, Dr.S.K.Pattanayak, Dr. M.R.Mahananda& Dr. I. Baitharu)	Funded by Bhushan Power and Steel Limited, Sambalpur,	COMPANY (PRIVATE SECTOR)	Environmental Science	2022	21.05	1 Years
Studies on Deep Learning Models for Crude Oil Price Forecasting	Dr. Sibarama Panigrahi	SERB, New Delhi	Government	Department of Science and Technology	2022	22.08	3 Years


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