## List of running sponsored Research Project/Schemes till 31.03.2025

SI. No	Title of Project
	Kinetics of self-assembly and structural transitions in complex soft materials across
1	multiple length scales
2	Synthesis and characterization of interesting topological materials
	Developing of a 3D non-kinematic dynamo model for the solar and stellar cycles
3	
	Developing calibration algorithm for HI intensity mapping with the Square
	Kilometer Array
5	Looking for novel skyrmion materials for spintronic applications
	Development of magnetic materials for spin seebeck energy harvesting
6	
	Development of robust spin-photon hybrid quantum system for negative refraction
7	
	Learning assisted phase sensor for rapid screening of cells and automated decision
8	making
0	Synthesis of movable monostatic radar mapping system for soil moisture retrieval
9	
10	Surface modification of porous electrodes for energy storage systems
10	Targeting cytochrome bd oxidase (cyt-bd) inhibitor for the development of rational
	drug combination for complete sterilization of Mycobacterium tuberculosis
11	drug combination for complete sternization of Mycobacterium tuberculosis
	Pharmacological exploration & repurposing of an antimalarial-drug for the
	treatment of triple-negative breast cancer using bovine milk exosomes as a delivery
12	vehicle
	Multiepitope nanoglycoconjugate vaccine development against Mycobacterium
13	tuberculosis
	Folic acid functionalized drug cocktail loaded lipid nano constructs for ameliorating
14	the triple negative breast cancer therapy
	Exploiting synthetic lethality of type II NADH dehydrogenases for complete
15	sterilization of mycobacterium tuberculosis
	Development and evaluation of Intra-nasal nanocarriers for the treatment of
16	Alzheimer's disease
	Exploring naturally inspired piperine derivatives as multitarget directed ligands for
17	the management of Alzheimer's disease

10	Development of regenerative nanofibrous bioactive conduit for treatment of spinal
18	cord injury
10	Development of enzyme enhancement treatment for neuronopathic Gaucher
19	disease
20	Design, synthesis and biological evaluation of mechanism-based novel theranostic
20	agents for Alzheimer's disease
24	Targeting CDK9 by coumarin based inhibitors: Design, Preparation and Biological
21	Evaluation
	Development of exosome-based drug delivery system for naturally inspired novel
22	multifunctional Neuroprotective molecules and their biological evaluation in
22	Alzheimer's disease models
	Development of L10-FeNi (tetrataenite, ordered phase) for permanent magnet
23	applications
	Microstructure and Crystallographic Texture dependence of cyclic deformation and
24	corrosion behaviour in Extruded MG-AL-ZN-SN alloys
	Structure-property correlation in creep-resistant squeeze-cast Mg-Al-Ca-Mn alloy-
25	based nonocomposites
	High temperature tribological studies of nanocomposite/multilayer coatings for dry
26	sliding applications
	Improving oxidative resistance of Carbo-graphite materials to be used in fabrication
27	of mechanical seals for aero-engines
	Development of stealth drones with camouflaging features for border surveillance
28	using advanced designing and 4D printing
	Development of catalytic integrated air-stream gasifier for the gasification of
29	agriculture waste and valorization of gasified fly ash on concrete work
	Averera Project (Development of connected vehicle technology for an urban
30	concept autonomous vehicle)
	A novel meso micro scale coupling approach for wind resource assessment
31	
	Efficient layer adapted methods for parabolic interface problems with boundary
32	and interior layers
33	Approximation methods generalized strum-liouville problems
34	Approximation of runs in multi-state trials with appropriate distributions
	Non smooth optimization and duality theory under variable dominance and interval
35	uncertainty
	Motives and algebro-geometric invariants of certain moduli spaces of connections
36	

37	Mixed local-nonlocal double phase elliptic and parabolic problems
38	Study of runs in multi-state trials
39	Wavelets Adaptive Schemes for Tumor Growth Model
	Instability mechanism of magnetohydrodynamic non-isothermal annular poiseuille
40	flow: A numerical study
	Exploring normally-on Ferroelectric Fin/FET devices for neuromorphic computing
41	applications
	Design and Analysis of OTFS-based Multiuser Terahertz Communication for 6G and
42	Beyond
	Demonstration of room-temperature electroluminescence from two-dimensional
	Semiconductor - Metal hybrid structures, towards the realization of nano-lasers
43	
	Design and development of antenna for surface acoustic wave (SAW) wireless
44	temperature sensor
45	Knowledge partnership for digital metrology
	Reconfigurable on board wired and wireless battery charger for electric vehicle
46	
	AI-Based platform for persons with visual impairment for effective social inclusion
47	
	Analyse the convergence bounds of federated learning with closer-to-practice
48	constraints
	Design and development of computer based intervention model for enhancing
	numerical of pupils of cope with mathematics curricula in primary school
49	
	Efficient Multiparty computation and applications
	Efficient Multiparty Computation
52	A pilot project on LoRaWAN-enabled smart building at IIT(BHU)
	Privacy-aware Federated Learning based Security Solutions for Beyond 5G
	Networks
54	Exploring prospects of shared e-micro mobility in Rural India
	Coupled consolidation study of unsaturated soils from a numerical perspective
55	
	An experimental numerical approach to enhance the mechanical stability of nano
	graphene reinforced polymer composite in an in-situ environment emphasizing
56	temperature
	Development of an Efficient and Portable Bridge Weigh-In-motion System for In-
57	service condition Monitoring

	An experimental- numerical study of improved delamination toughness in polymer
	composite laminates through the incorporation of nano-graphene particles
58	
	Development of Integrated Low-Cost Identification and Alert system for
	overloading, over speeding, and lane discipline violation of vehicles operating on
59	Expressways
	Hydrological experiment ans water fluxes modelling for SWOT and sentinel - 3A/3B
60	missions: Ganga River
	Photo-Triggered Catalyst-Free approach for C-Arylation and N-Arylation with
61	Diazonium salt via Electron-Donor-Acceptor Complex (EDA)
62	Single-Molecule signature of knot formation in proteins
	Development of new bioinspired catalysts based on Earth- Abundant transition
	metals and selenolate ligand for selective Hydrofunctionalization reactions
63	
64	Synergetic Metal/Lewis base- catalyzed asymmetric annulations
	Studies on development of low global warming potential (GWP) compounds and
	their bloends as alternatives for common refrigerants and examination of their
65	ozone depletion potential
	Utilization of low grade coal for production of high quality graphene and carbon
66	nano-particles for energy storage
	Computational modelling and implementation of O2 Evolution and phase change of
67	positive electrodes in Li-ion Batteries
	Development of a 10 kW membrane reformer prototype for production of fuel cell
68	grade green hydrogen for power generation
	Study of solid hydrodynamics in an elevated temperature gas-solid fluidized bed
	with secondary gas injection through side wall pneumatic nozzels
69	
	Solution spray processed SnO2 based Electron transport layer (ETL) for perovskite
70	solar cell (PSC)
	Development of bio-resources for the generation of hepato-biliary tissues for
71	mechanistic insights into liver regeneration
	An immunoprotective hydrogel-based implantable construct containing xenogeneic
72	islets for type 1 diabetes therapy
	Engineering cell-based smart hydrogel patch for All-Round Rapid Wound Repair
73	(ARRWR) in diabetic rats

	Development of implantable hydrogels containing engineered cells secreting
	glucocerebrosidase for long-term treatment of Gaucher disease type 1
74	
	Development of Implantable Engineered-Cells-Nano-Polymer-hydrogel based
75	immune therapeutic tools for pancreatic cancer
	Novel Polymeric Nano medicine for Cancer therapy Based on the Bio-informatics
76	and Data analysis
	Investigation of Cell-of-origin of TNBCs and Luminal types of Breast Cancer and
77	Development of targeted therapy.
	Development of EEG-based biometric system to identify friend and foe in defence
78	application
79	Engineering cell-based hydrogel patch for Diabetic Wound Repair
	Reverse Engineering & high-throughput redesigning of double-y B-barrel core
	folded proteins: Comprehending their functional diversity for augmenting
80	therapeutics
	Scale-up studies of isoprene production from genetically engineered cyanobacteria
81	for biofuel application
	Understanding the molecular mechanism of anti-thyroid drug (propylthiouracil)-
82	induced 'redox imbalance and epigenetic alteration
	Transcriptome analysis of Cancer cell line treated with Gedunin and
83	2INC000O45971961 as novel Bruton's tyrosine kinase (BTK) inhibitor
	High solids anaerobic digestion for effective garbage disposal with forward linkage
84	to power generation
	Development of all natural silk protein-anthocyanin based restorative hair dye
85	formulation
86	Socio economic impact of PM Awas Yojana (U) in Varanasi District
	Application of sthapatya veda and vedic architecture in creating healthy indoor
87	enviornment - study area Varanasi
88	Higgs physics within and beyond the standard model
89	Search for topological superconductor in Heusler family
	Exploration of Indian Clays for the development of functional materials through
90	surface modification
	Quantum phase transition in X2Luln (X=Pt, Pd) Heusler Alloys via chemical
91	substitution
	Experimental Investigation on machine learning aided cost-effective
	electromagnetic wave absorber coating using Microwave heat heterogenous
92	Electronics waste

	Development of stable & high luminescence colloidal quantum dots and its light
93	emitting device application
	Traditional Principles of settlement planning in heritage temple sites of Odisha/
94	erstwhile kalinga region
	Flow and segregation of granular materials out of hoppers and two & three
95	dimensional devices
	Targeted drug delivery of methotrexate/gallic acid- folate conjugated Poly L-Lysine
96	nanoparticles
	Development of bi-functional electrochemical nanobiosensors for bacterial
	exotoxin detection: Implication towards screening of toxin producing bacterial
97	isolates
	Validation of Glutathione synthetase from Leishmaniadonovani as new drug target
98	or discovery of new drug candidate
	Characterization of indigenous cow's dung and urine for scientific advancement
99	and development of utility items
	Bioengineering of living materials to fabricate functionalized bacterial
100	nanocellulose for high performance applications
	Design and Validation of field deployable miniaturized Nano-Bio-Sensing System for
101	Detection of the Parasitic liver fluke fasciolagigantica
	Development and evaluation of an innovative poly herbal Bi layer wound dressing
102	material
	Metabolic engineering of rapid growing cyanobacteria for farnesene production
103	and its scaleup studies
	Complete utilization of banana from farm till its disposal: A step towards the
	agricultural circular economy for the growth of agriculture and farmers in UP
104	
	A Novel, Rapid, High-Throughput Characterization of Microbiome Dynamics
105	through Cytomics and Machine Learning
	Integrated computational and experimental studies to potential therapy of kala-
	azar targeting Dephosphocoenzyme A Kinase (LdDPCK) of the pathogen as a target
106	
	Human IL-2 fused leishmanial trypanothione synthesis (TS) as protein vaccine
107	candidates
	Neem seed based nanocapsules and nanomedicine for targeted drug delivery and
108	cancer therapy

	Functional-hollow-porous-bipolymer based Nanoformulations and Interventions for treatment of Cancer and prevention of Tuberculosis, concept of nanomedicine
109	with multiple drugs for multiple diseases.
103	Development of Cardiac Model for Prediction of Human Heart Failure using
	Noninvasive medical imaging and Computational Fluid Dyanamic techniques
110	· · · · · · · · · · · · · · · · · ·
	Development of Microfluidic tools for neuromuscular synatogenesis and
111	nanotoxicological studies
	Novel Electrode Materials for Reversible alkali –ion (Li+/Na+) capacitors and
112	Pseudocapacitors
	Development of High Alumina(Al2O3) & DOPED High Alumina materials for Ceramic
113	Cartridge Applications
	Development of high strength ceramic magnet for rotating machine applications
114	
115	Seasonal study on photocatalysis experiments in India environment
	Complex of online and onsite lectures on materials for hydrogen generation by
116	solar water splitting
	Development of high Thorough put Processing route for CIGS PV absorber films by
117	spray pyrolysis of Pre-synthesised Nanoparticle Ink
	Combined effect of dynamic electrical stimulation and surface charge on cellular
110	functionality of electrovector and piezoelectrically toughened bioceramics
118	
119	Pressure Assisted Flash Joining of Ceramic Materials
	Cell laden 3-D bioprinted 2-dimensional (2-D) hydroxyapatite
420	nanocrystals/alginate/collagen piezo-biocomposite scaffold for bone tissue
120	engineering applications
121	Wafer-scale integration and interfacial engineering of 2D van der Walls superlattice
121	for next-generation nano-scale devices
122	Development of nano bonded alumina magnesium borate refractory castable
122	application for Indian petrochemical industry
122	Controlled synthesis of MoO3 nanoparticles inside mesoporous materials for
123	oxidative dehydrogenation of organic moleciles with CO2
124	Direct cooling of the Silicon Photovoltaic Module Enabled by an Array of Micro
124	channel built in the backside EVA -Layer  Modelling & simulation of ultra high temporature coating on sustrate using
125	Modelling & simulation of ultra-high temperature coating on sustrate using CVD/CVI Process
125	CVD/CVI FIOLESS

	Detailed study on the effect of mining as well as Thermal Power Stations on Natural
126	water bodies in Singrauli Region and Recommendation Thereof
127	Study the BioCNG production potential of different feed stocks
	Production of high-purity methane from renewable biomass through anaerobic
128	digestion
	Preparation of Dense Palladium/ Palladium-alloy Membranes and Optimization of
	Multi-pass Membrane Separator to Generate Ultra-Pure Hydrogen for On-site
129	Applications
	Novel integrated engineering approach for effective carbon dioxide removal using
130	biphasic amine blends for coal-based thermal power plant
131	Regional characterization of atmosphericx aerosols at Varanasi Region
	Design and development of a Membrane reformer protype for production of ultra
	pure hydrogen from methanol for fuel cell based vehicle and power generators
132	
	NOx Removal from Diesel Exhaust by combined NOx storage Reduction and NH3
133	SCR System
	Development & Evaluation of Infrared Nanoparticles for Cellular-wide sensitive E-
134	field Mapping
	Pyrolysis of Biomass for the Production of Bio-oil: Experimental and Computational
135	Study
	Fabrication of low-cost High-through out Flow Cytometer using tunablenanolenses.
136	
137	TIFAC-MSME Program
	Effects of ceria support morphology for the synthesis of bimetallic catalysts for Nox
138	reduction through H2-SCR
139	Crack modulation in dried colloidal films by soft additives
	Design and development of kinetically stable electrolytes for next-gen Li-ion
140	batteries (ElectroLilon)
	Thermo-catalytic conversion of carbon dioxide into ethanol and higher alcohols
141	
	Catalyst development for reforming of biomass tar model compounds for hydrogen
142	and syngas production
	Production, characterization and combustion studies on sustainable aviation fuel
143	
144	Evaluation and Optimisation of Biodiesel Production from Microalgae
145	Development of portable electrochemical sensor hydrogen peroxide

	Detailed lecture based curriculum development for science subjects as part of
146	Induction Programme in AICTE COLLEGES
	Metal hexacyanoferrate modified screen printed electrodes for the removal of
147	radio nuclides
	Development of photoactivated transfer hydrogenration in catalysis for heat
148	generation cancer transfer
	Towards alkaline aqueous battery and fuel cell application: Synthesis, kinetics and
	Operando spectroelectrochemical studies of mixed metal selenide and polypyrrole
149	composites as potential oxygen electrocatalysts
	Development of magnetically recyclable visible light photocatalysts for H2O2
150	Production
	Development of transition metal based nanocatalysts for bioinspired water
151	oxidation
	Developing Superior Nobel Metal free Oxygen Evolution Catalyst for
152	electrochemical Water oxidation and Metal -Air Battery
	Promoting water Oxidation Reaction with Electrochemically Synthesized ultrathin
153	Layered double Hydroxide Nanosheets
	Noble multimetallics/ZnOphotocatalyst for hydrogen production from green
154	sources
155	IKS at IIT(BHU) Varanasi
	Mineral Acids in India prior to 15th CE: A Revisit Exploring Arthasastra and other
156	15th CE Rasa Sastra texts
	Development of stable and tethered Os(II)-based catalysts for reductive stress
157	mediated photo-catalytic anticancer activity
	Proof of concept of developing in-cell reductive stress by Ir(III) transfer
158	hydrogenation catalysts
159	Table Top Sem for CIF
	Propagation & Mitigation model of mixed road traffic noise for planning od mid-
160	sized Indian Cities
	Studying few aspects of soil behaviour and In-corporation them in Limit Analysis
161	
162	Smart & Integrated Pedestrian System Design
	Investigation on dynamic response analysis of shallow foundation resting on pond
163	ash deposits
	Development and assessment of asphalt mastic from typical Indian and Austrian
164	filler materials with a new test method

	River Aquifer exchanges & hydrogeological study for watershed management of
165	betwa river basin
	Assessing the Suitability of warm mix asphalt (WMA) Technology Using Tribological
166	and Performance Characteristics
	Rheophysics of semi-rigid road building materials and optimization of their
167	composites for the perception of heavy transport load
168	Safer Roads: Development of Mix Design Methodology for OGFC Mixes
169	Life cycle and performance of Waste Plastic roads
170	Life Cycle and performance assessment of cold mix roads
	Understanding the engineering behaviour of unsaturated geomaterials and
171	implementing it in limit analysis for solving geotechnical problems
	Development of Performance based mix design process: A re-look at the Marshall
172	Mix design process for the production of strong and durable
	Factor affecting exhaust emissions of motorized two wheeler in an Indian Tier-II
173	city: A case study of Varanasi
	Improvement of delamination fracture toughness in nao-graphene particles
	reinforced polymer composite laminates: An experimental- numerical approach
174	
	Experimental and Numerical Investigation on Strength Behaviour of FRP Retrofitted
175	Beam
176	A System for Quality Control and Certification of Geospatial Data for NSDI
	Utilization of Industrial Wastes in Dense and Gap Graded Asphalt Mixes as Fillers
177	
	Development of algorithms for water quality monitoring using ground
	instrumentation and optical sensors onboard unmanned airborne vehicle and
178	satellite data
	Development of an inexpensixe high-fidelity technique for the prediction of failure
179	capacity of thin shell structures
180	Design and analysis of adaptive tow-steered laminates
	A data driven toolkit for enabling multimodal freight transportation in India and
181	Austria
182	A Robust medical image forensics system for smart healthcare
	Research & Experiment in the area of advanced data structures and methodologies
	to represent and process large terrain datasets for efficient rendering
183	
	Intelligent system for computer assisted diagnosis (CAD) OF CANINE MAMMARY
184	TUMORS
-	

185	Multilingual document summarization in quasi stationary environment
	Resource-optimized fog computing for smart healthcare application in IoT-enable
186	heterogeneous networks
	Investigation risk factors and predicting complications in COVID-19 patients with
187	Machine Learning Algorithms
	Optimal transport derivations in regularized wasserstein space for non-linear &
188	linear transformations of deep neural networks
189	Incorporating Intelligence in Email System
190	Development of text based matching algorithms for bartering software
	Development of an energy –efficient wireless sensor networks for precision
191	agriculture
	Developing novel therapeutic strategies for mitigating antimocrobial resistance
192	
	Design and development of machine learning based methods for plant disease
193	detection
	Development of an Intelligent Internet of Things (IIoT)-enabled Portable Device for
194	Early Diagnosis of Foot and Mouth disease of Dairy Cows
195	Algorithms with provable guarantees for dynamic social networks
	Artificial intelligence &IoT based smart vet ecosystem for animal health patient
196	care & precision livestock farming
	Revisiting traditional Indian agriculture practices against climate change
197	vulnerabilities using machine learning techniques
	Development of disaster response system for collecting & disseminating
198	information through social media test processing
	Development of a ligtweight Android mobile software powered by Deep Learning
199	for identification of plant leaf disease
	Mix energy Source Electric Vehicle Charging System Design and its Impact on Indian
200	Smart –distribution - grid
	Design Modelling and simulation of linear Induction Drive for Propulsion
201	Applications
	Construction of Non-monotonic Lyapunov Function for the Dynamical Systems
202	governed by differential inclusions
203	Virtual synchronous generator for microgrid applications
204	Output feed back controller design for linear parameter varying systems
	Design and analysis of linear induction motor drive for electromagnetic aircraft
205	launching system
206	Development of a standalone solar electric drive system for boats

	Design, development and demonstration of solar-IV integrated on board and off
207	board electric rickshaw charging Infrastructure
	Demonstrable Prototype of IoT enable DC/AC smart grid at Library Building,
208	IIT(BHU), Varanasi with solar photovoltaic Integration
	Data-driven battery sizing for standalone solar electric drive system for river boats
209	
	Design and development of Cybersecured Smart Power interface for Energy-Local
210	Area Network (ELAN)
	Development of a real-time cyber-attack detection module and its hardware-in-
211	loop testing for an integrated power network
	Development of energy efficient and compact electric drive train for fuel cell
212	electric vehicle
	Reliability evaluation and performance enhancement of grid integrated wind-solar-
213	EV hybrid renewable energy systems
214	Li-ion based inverter for household appliances
	Design and development of next generation cost effective reconfigurable on-board
215	battery charger with health and fault monitoring
	Electrolytic capacitor less six pulse DC ling photovoltaic system connected to grid
216	
	Smart DC charging with integrated digital platform for CPOs and Power distribution
217	companies
	Silicon carbide devices based high voltage gain converter with novel current-source
218	gate driver for electric vehicle powertrain
219	Centre for development of drone related technologies
220	Design Investigations of High Power MM Wave W Band Gyratron
	"Design and development of miniaturized pattern/frequency reconfigurable MIMO
	antennas and its performance improvement using artificial electromagnetic
221	material"
	Development of Polymer and Quantum Dots Blended Tandem Solar Cells Using Low
222	Cost Solution Processed Method
	Physical Layer Security for LTE based Wireless Networks to increase Jamming
223	Margins
	Electromagnetic Analysis, Design and Simulation of Dual Frequency (S- and C-band )
224	Relativistic Backward wave Oscillator – A HPM Source
	Development of Simulation Software for Spintronic Device & Circuit Simulation
225	•

226 metamaterial waveguide coupler and antenna for 5 G Applications  Analysis and design of sub-millimetre wave tuneable gyrotron for DNP- NMR  Spectroscopy application  Development of Hand Telerehabilitation Platform for Diagnostic and Therapeutic Purposes in Physiotherapy  Metasurface-based Sensor devices for mm-wave and sub-terahertz Applications  Design and Development of High Gain, Wide Bandwidth Beam Steered 230 Reconfigurable Reflectarrray Antennas for 5 Gmm Wave Applications  Design and Development of Composition engineered toxic free organic inorganic Perovskite Quantum Dots Based Flexible Spectrum TunablePhotodetectors  231  Electromagnetic Analysis, Design and simulation of an X-band Gyro-Twystron Amplifier  Development of Variable data rate CCSDS complaint direct digital demodulator  233  Development of wearable internet of medical things for continuous health monitoring of astronauts  Development of graphene/CNT FET based sensors for space applications  Metasurface-based various components for applications in microwave and beyond  236  237  Design and development of reconfigurable reflect array antenna at X-band  Design and development of implantable and ingestible antennas for biomedical applications  Cognitive Linguistic study of perception verbs in Hindi and English: In the context of machine translation  Integrative Environment View (IEV) for Sustainable Hyper Local Temporal & Spatial Environmental Pollution Monitoring: Case of Air Quality in Varanasi City  Analytical study of sansad adarsh gram yojana of Jayapur and Nagapur in Varanasi  241 District  242 Language Communicator Tool for End Users  NeetiShastras and Modernity: Understanding the reflective equilibrium between  Hermeneutics of Normative Texts and Practice		Design development and characterization of Low loss frequency selective
Analysis and design of sub-millimetre wave tuneable gyrotron for DNP- NMR 227 Spectroscopy application Development of Hand Telerehabilitation Platform for Diagnostic and Therapeutic Purposes in Physiotherapy Metasurface-based Sensor devices for mm-wave and sub-terahertz Applications  Design and Development of High Gain, Wide Bandwidth Beam Steered Reconfigurable Reflectarrray Antennas for 5Gmm Wave Applications  Design and Development of Composition engineered toxic free organic inorganic Perovskite Quantum Dots Based Flexible Spectrum TunablePhotodetectors  Electromagnetic Analysis, Design and simulation of an X-band Gyro-Twystron Amplifier  Development of Variable data rate CCSDS complaint direct digital demodulator  Development of wearable internet of medical things for continuous health monitoring of astronauts  Development of graphene/CNT FET based sensors for space applications  Metasurface-based various components for applications in microwave and beyond  Design and development of reconfigurable reflect array antenna at X-band  Design and development of implantable and ingestible antennas for biomedical applications  Cognitive Linguistic study of perception verbs in Hindi and English: In the context of machine translation  Integrative Environment View (IEV) for Sustainable Hyper Local Temporal & Spatial Environmental Pollution Monitoring : Case of Air Quality in Varanasi City  Analytical study of sansad adarsh gram yojana of Jayapur and Nagapur in Varanasi District  Language Communicator Tool for End Users  NeetiShastras and Modernity : Understanding the reflective equilibrium between	226	_ · · · · · · · · · · · · · · · · · · ·
227 Spectroscopy application  Development of Hand Telerehabilitation Platform for Diagnostic and Therapeutic Purposes in Physiotherapy  Metasurface-based Sensor devices for mm-wave and sub-terahertz Applications  Design and Development of High Gain, Wide Bandwidth Beam Steered  230 Reconfigurable Reflectarrray Antennas for SGmm Wave Applications  Design and Development of Composition engineered toxic free organic inorganic Perovskite Quantum Dots Based Flexible Spectrum TunablePhotodetectors  Electromagnetic Analysis, Design and simulation of an X-band Gyro-Twystron Amplifier  Development of Variable data rate CCSDS complaint direct digital demodulator  Development of wearable internet of medical things for continuous health monitoring of astronauts  Development of graphene/CNT FET based sensors for space applications  Metasurface-based various components for applications in microwave and beyond Design and development of reconfigurable reflect array antenna at X-band Design and development of implantable and ingestible antennas for biomedical applications  Cognitive Linguistic study of perception verbs in Hindi and English: In the context of machine translation  Integrative Environment View (IEV) for Sustainable Hyper Local Temporal & Spatial Environmental Pollution Monitoring : Case of Air Quality in Varanasi City  Analytical study of sansad adarsh gram yojana of Jayapur and Nagapur in Varanasi District  Language Communicator Tool for End Users  NeetiShastras and Modernity : Understanding the reflective equilibrium between Hermeneutics of Normative Texts and Practice	226	
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343 Alzheimer's Disease		Natural Template Based Novel Neuroprotective Molecules for the management of
	343	Alzheimer's Disease
Development of novel near infrared fluroscence imaging probes for detecting		Development of novel near infrared fluroscence imaging probes for detecting
amyloid beta species in eyes of Alzheimer's disease animal model		amyloid beta species in eyes of Alzheimer's disease animal model
344	344	
Design and development of potential multifunctional molecular hybrid for the		Design and development of potential multifunctional molecular hybrid for the
345 treatment of Alzheimer's disease	345	treatment of Alzheimer's disease

Study on therapeutic and preventive efficacies of linoleic acid in hamster model of visceral leishmaniasis
Development of peripherally acting Nanoformulation of opioids for the treatment
of neuropathic pain
Preparation & characterization of natural products derived self-surface
functionalized carbon dots for oral cancer theranostics
Animal studies to establish the efficacy of surface polarized sodium potassium
niobates for orthopaedic implant application
DST/INSPIRE Faculty Award (IFA-12-PH-21)
IFA-12-Ph-22 DST/INSPIRE FACULTY Award/2012 INPIRE FACULTY AWARD
Study of Magnetospheric Wave-Particle interaction, Aurora, Airglow and
Conductivities on Planets and their Satellites
Observations and Modelling of solar transients & space weather candidates
Electronic Structure evolution across quantum critical point in Li(Ti1-xVx)2O4 Li1-x
Znx)V2O4
Collection of self-propelled particles in inhomogeneous environment : numerical &
analytical Studies
The sun under the microscope – An integrated research activity to maximize the
science return from a new generation of missions to study the sun
Modelling self assembly and phase separation kinetics in the complex soft materials
Ramanujan Fellowship
Investigations of new lead free perovskite materials for solar cells
Tuning self assembly of fluoresent Protein Nanodots for Melanoma Skin Cancer
On understanding the solar activity and preparing for space weather prediction
using a state of the art dynamo model
Multiple reversals of the Sun's polar- field and their physical causes
Spatially resolved digital holography polarization microscope for diagnosis
applications
Tailoring correlations of light using plasmonic and nano structure
Development of perovskite oxides SrCeO3 and SrCeO4 as high temperature thermal
barrier coating (TBC) material for aerospace application

366	Analytical study of hydrodynamic theory of wet active fluid
	Experimental study of anisotropy in nuclear charge and current distribution that
	results in interplay of electric and magnetic rotation in Xe nuclei
367	
	Active polar flock in quasi tow-dimensional geometry: role of confinement and
368	boundary condition
	Study of quantum chaos and multipartite entanglement using quantum circuits
369	
	Tailoring properties by altering long and short-range structures in eco-friendly, Pb-
370	free ferroelectric perovskite oxides for energy harvesting
	DST-INSPIRE Faculty Award (IFA-13 PH 54) understanding structure and dynamics of
371	the Interstelar medium
	Novel observations and modelling of the heating and dynamical plasma processes
372	in the localized solar atmosphere
	Development of microwave scattering algorithms for retrieval of crop biophysical
	parameters and soil moisture using polarimetrics SAR satellite data
373	
	Novel and efficient hybrid material of CsPbBr3, Nanocrystals and organic complexes
	for multi-stimuli and dynamic optical encryption and decryption
374	
	Development of rare-earth-free metal vanadate phoshors for latent fingerprint
375	detection
376	A new paradigm for flavour problems
	Enhancement of detection capability of Pyroelectric detectors in Infrared (IR) and
377	Terahertz (THz) region
378	J.C. Bose Fellowship
379	Polymeric Nanobiohybrids for Tissue Engineering and Drug Delivery
	Development of low voltage, low power, colloidal quantum dot light-emitting
380	transistors for next generation display technology
	Development of low cost sodium ion battery: Fabrication and application of
381	NASICON based electrodes
	Understanding the mechanism of action through cell biology and upgradation of
	herbal drug in solution and biodegradable patch for the treatment of diabetic foot
382	ulcer
	Elastocaloric effect measurement setup to study caloric effect in shape memory
383	alloys
384	Development of anticorroshiv paints

385	Mott transistors based Neuromorphic memory device
	Minimizing hysteresis in magnetic shape memory Heusler alloys for reversible
386	magnetocaloric effect
	Low cost ammonia gas sensor based on polymer/polymer nanocomposite device
387	formed by novel floating film transfer (FTM) technique
	Nanoscale interfacial magnetic skyrmions and its applications in memory devices
388	
389	Chemical modification of Gaur Gum to improve its properties
390	Aging studies and estimation of thermal properties of Liner Materials
	Impact of Carbon Nanomaterial based Photocatalyst on Microalgae Growth and
391	Lipid for improved Biodiesel
392	3 D Bio Steeolithography for Engineering functional Tissues
393	Development of nanoink for anti-counterfeit products and solution
394	Defence analyses of Compound Semi-Conductor Wafer
395	Fabrication of low power consuming inverted near-infra red AMOLED
	Multifunctional Nanostructured Mn/Fe doped CeCro3 for Photocatalyst and
396	Magnetic Switching
397	Investigation of Anomalous Nernst Effect in Shape Memory Heusler Alloys
	Demonstration and reproduction with scientific validation of some Ceramic
398	Materials Knowledge System of Ancient India
399	Development of advanced Medical Textiles
	Correlation studies of copper artifacts (2500-200 BCE) from Varanasi region and
400	copper mining and smelting in tribal areas of Singhbhum
	Effect of composition and microstructural alteration on constant and dynamic
401	loading response of Al-Mg-Si alloys for electric vehicle application
	Investigation of processing techniques for the development of PPEK and
402	Thermoplastic prepreg technologies
	Study of composition and thermo-mechanical processing of 4-8% Cu Al alloy for
	fabricating the fuselage skins and frames for aerospace application
403	
	DNN- Derived Innovative Flexible Frequency Selective Surfaces for Stealth and 5G
404	Electromagnetic Shielding Applications
	Nano-ion Chromatograph in Action - Sustainable and scalable quantum dots paves
	a Facile route for Rare Earth Ions Separation Through Advanced Hydrometallurgy
405	
	Development of Aluminosilicate based Glass-ceramics for Radome Applications
406	

	Evaluation of coded drug Ayush Rasayana B for treatment of high-altitude sickness
407	using multi-dimensional drug recovery approach
	development of W-Ni-Co alloys and modelling the deformation behaviour
408	employing the computational approaches
	compact pulse power supply using sequentially controlled PFN based on silicon
409	carbide high gain modular converter
	development of aluminium composite powders for additive manufacturing
410	
	Design and development of maraging based medium entropy alloys using additive
411	manufacturing
	Numerical studies on the deformation behavior of different FCC-BCC alloys
412	subjected to quasi-static loading and ballistic impact
	Development of Tungsten heavy alloy hybrid structure using microwave sintering
413	for long rod kinetic energy penetrators
	Transparent thermal regulating radiative coating development for smart windows
414	
	Polymer-Mangiferin-Inorganic-Nano antibiotic" combination for eliminating
	Intracellular and Intraperitoneal drug resistant microbial infections
415	
416	Control & operation of Networked DC Microgrid
	Preserving India's rich cultural heritage:a study of role of the national mission for
417	manuscripts
	Development of mesoporous hybrid carbonaceous support catalyst for high-
	performance electrocatalystic electrodes for PEM Electrolyzers
419	Non conventional water treatment & monitoring for reuse in agriculture
	To establish the synthesis route for the development of high purity $\alpha$ -Si3N4 powder
420	
	Improved lightweight design of variable stiffness composite aircraft panels enabled
421	by Tow-steering and machine learning
	Microplastic mitigation via anaerobic digeston & a novel technology for the
	detection of microplastic via cytometric fingerprinting & machine learning (CFML)
422	
	Investigate the mechanical properties of W-Ni-Co heavy alloy by stabilizing the
423	binder phase , W-precipitates and intermetallic B-phase
	Design and development of an indigenous inert gas atomization-based powder
424	production equipment
L	

	Design of S- and X- Band High Power Microwave Source - Relativistic Backward
425	Wave Oscillator (RBWO)
	Development of Zirconia-based Dental Ceramic Implant with Minimum Fibrosis
426	
	Lignocellulose based scalable luminous photonic biopolymers for sustainable films
427	and coatings
	Development and assessment of printability of indigenous Additive Manufacturing
428	(AM) grade metal and alloy powders
	Biochemical transformation of natural products into functional bioactive cosmetics
429	
430	Capacity Building of Tribal Population in Agriculture and Allied Sectors
	Proof of concept of developing Mn(I) tricarbonyls for simultaneous ultrasound-
	triggered CO release and ROS generation for next-generation cancer treatment
431	
	Development of high-performance fully 3D printed lithium (Li)-ion battery system
	using advanced Cu-Zn alloy-based ordered porous current collectors with deposited
	Li as anode and ordered porous Li iron phosphate as cathode
432	
	Development of a multi-scale radar vegetation index using full polarimetric
433	Eigenvalue-based decomposition for different crop types monitoring
	Tailoring Na-Anodes for Stable and Efficient Na-Metal Batteries: Na-S as the Test
434	Case
	Investigation of Graphene Hexagonal Boron Nitride nanocomposites for
	electromagnetic shielding interference application using THz Time domain
	spectroscopy
435	
	Modulation of Metal-Metal Interaction and Coordination Sites of Dual-Atom
	Catalysts for the Electrochemical Oxidation of Benzylic Substrates to Value-Added
436	Products
	2-Mercaptobenzothiazole amides as inhibitors of type II NADH dehydrogenase with
	bactericidal activity against Mycobacterium tuberculosis
437	
	Develoment of near room tempertaure superconductor by environmentaly stable
438	Ag-Au mesoscopic thin film
	Sanskrit Knowledge Accessor' under project 'National Language Translation MIssion
439	(NLTM): BHASHINI"

440	Development of a novel spray system to reduce cross-contamination in dentistry
441	Urban Commercial Freight Demand Mapping for Last-Mile Traffic Interventions
442	Development of an artificial intelligence system to detect early shared neural biomarkers of ASD and ADHD from multi-modal neuroimaging
443	IRS-Aided OTFS framework for integrated terrestrial & non-terrestrial networks for seamless connectivity
444	Designing a Cybersecured LoRAWAN Framework-Enhancing Jamming Mitigation and Device Authentication
445	Development of laboratory scale process for albumin nanomedicine for breast cancer therapy
446	Design & development of skin inspired electronic sole (E-sole) for tactile feedback in lower limb prosthetics
447	Coal Mine Overburden Alkali-activated Composites (CMOAAC) for Pre-Fabricated 3D Volumetric Construction Elements & System thereof (3DVCES)
448	Hindu Worldview vis-a-vis UNDP-SDGs in the context of Fourth Industrial Revolution: a study of VUCA-coping cultural mechanisms of Hindus in Varanasi and the Netherlands
449	Study of the different types and grades and performance parameters of rubber floor tiles and sheets manufactured and/or available in Indian market (CED 0121)
450	Laser powder bed fusion processing of high-strength metastable β-titanium alloy Ti5553
454	Nanotechnology-driven advanced tribological solutions to reduce global energy consumption and carbon footprint - A radical step in the design of new-generation lubricants towards meeting the UN sustainability goals 2030
451	Enhancing Environmental Disaster Monitoring through Geo-Tagged SOS: A Satellite
452	IoT System Approach
	Development of Implantable hydrogel based immunotherapeutic patch for
453	Treatment of Oral cancer and associated microbial infections through Cell therapy approach
	Preparation of Comprehensive Action Plan for the revival of Assi River
	Smart Laboratory for Clean Rivers (SLCR)
	Sind telaboratory for Sicari filters (Section)

	Revolutionizing Healthcare waste for Artificial Intelligence-Infused 5G Substrate
456	with Safe & Eco-Friendly Microwave Technology
	Fabrication and Characterization of Hybrid Carbon-based Nanomaterial-Polymer
457	Thin Film Transistors for Poisonous Gas Sensing Application
	Development of Prototype assistive listening device by incorporation a microphone
458	array and haptic stimulation
	Technology to Detect Effect of Blasting on Propagation of Cracks in Structures
459	
	Study on the various testing methods used for determination of the concentration
460	of suspended particulate matter in air
	Ultralow power negative capacitance field effect transistors with amorphous oxide
461	semiconductors for display backplane
	Vacuum cum Ultrasonic assisted Warm Incremental Sheet Forming of Titanium
	Alloys: Process Development and Experiments
463	KEEPALIVE: LoRa enabled Secure Long Range Communications
	Integrated sensing and communication for V2X Networks in Sub- THz band:
464	Analytical modelling and prototype implementation of Air Interface
	Machine Learning - Driven Capacity Assessment for Lightweight shell structures
465	
	Developing a Life Cycle Assessment (LCA) Framework for Waste Management
	Technologies in India
	Courses on Indian Chemistry, Material Science and Metallurgy
	Machine Learning Enabled Next-Generation IoT Communications
469	Jalnidhi Bitumen Specialities Pvt. Ltd. (MoU)
	Study of advanced testng methods and procedures for three phase squirrel cage
	induction motor for centrifugal pumps for Agriculture application
470	
	Design and Development of IoT accessed secure E-Finance Platform for managing
	severe acute malnutrition among vulnerable tribes population in Chattisgarh
471	
	IPSA-Kumbh: Mapping the Impact of Floating Population on Sewerage during Maha
472	Kumbh 2025
	Ultra sound assisted crystallization of anti-hypertensive drugs to improve their
473	solubility and industrial processability
	Development of customized spinel and garnet ferrite using locally sourced raw
	materials for circulator applications: A step towards advancing indigenous
474	technology for sustainable raw material management

	Development of biopolymer based peptide and flavonoid co-loaded chitosan oral nanosuspension: A novel dual drug therapy approach to manage Type 2 Diabetes
475	
	Metal Oxide based RRAM Device for Neuromorphic computing applications
476	
477	A new approach for anticounterfeiting using hybrid nanostructure
478	Designing Novel Superconducting Qubits
	Hybrid Nanomaterials of polymer-graphene/AgNP for customized 3D/4D printed
479	diabetic wound dressing
	Precise inference of the Galactic helium-to- metal enrichment ratio using
480	asteroseismology
481	Development of polymer fiber composites for Hydrogen storage
482	Design of materials for Hydrogen storage tank
	End functionalized cellulose nanocrystals using integrated microfluids for product
483	ion of high performance optically active coatings and fibers
484	Generation of Green Hydrogen through Sea Water Electrolysis
485	Characterization of emerging pollutants & fingerprint analysis
	Development of catalytic structured reactor for carbon dioxide methanation
486	
	Establishment of Secretariat for Smart Laboratory for Clean Rivers (SLCR) in
487	Varanasi
488	Hydrogeological model of varuna basin for recharge sites
489	Decision Support System for Water Resource Management
	A study to evaluate the feasibility of direct metal laser sintering for the fabrication
	of Haynes 282 superalloy based thin-walled structures for gas turbine applications
490	
491	Giant magnetoresistance (GMR) sensors for space applications
	Study the metabolic biomarkers as predictive response to radiation exposure :
	Rapid assessment of radiation signatures in biological fluid (plasma) to enhance
492	astronaut safety and performance
	3D Bioprintable Hydrogel Implant Containing Engiineering Cells for Long-Term
493	Treatment of Amoyotropic Lateral Sclerosis
	Globally supported radial basis function based fractional order mesh free fast
494	algorithms for image denoising and enhancement
	Lead optimization and in vivo proof-of-concept studies of novel alpha-ketoamide
495	based protein aggregation modulators for Alzheimer's Disease

	Soy Heal: Development of Superabsorbent Soy Protein Isolate Cryogel based
	Wouond Dressings with Shape Memory Properties for Non-compressible
496	Hemorrhage Control and Diabetic Wound Healing
	DAFL: Development and Analysis of Cognitive Federated Learning Framework over
497	Edge Networks for Defence Applications
	Understanding and predicting the emergences of solar active regions and
498	forecasting their impacts on space
	Developing a reliable and secure processing system for telemedicine in space using
499	space based Wireless Sensor network (SB-WSN)
	Recycling of CFRP (Production of Composite Filaments using reclaimed carbon fibre
	from CFRP waste and fabrication and performance analysis of 3D parts thereof
500	
	Surface bioengineering of nanoporous cellulose templates for developing value-
501	added products
	Pilot of Digital Twin for Chemical Plant and Urban Smart Solutions Program
502	
	Structural stability assessment of railway lines within 45m of mining activities
503	
	An integrated protein design, machine learning and QM/MM- based pipeline to
	decipher antibiotic resistance in UPEC-associated urinary tract infections
504	
505	Review of Randomization in Online Card Games
	Herbominerals - Preparation, characterization and
	activity studies of herbo-mineral formulation from Siddha and Ayurveda (With
	particular focus on Pb) aimed as preservation of Indian cultural heritage
506	
	Commuter-Centric Mobile Application for Public Electric Bicycle Sharing Ssytem (CC-
507	MAP)
	To detect the speckle reflected at source end and develop methodology for
508	adaptive optics control
	Development of nanostructured graphene oxide/polydopamine coated
	nanobiosensor monitoring GPC1 for the early diagnosis of pancreatic cancer
509	
510	Electric Bus Charging and Operations Optimization
	Rational design, synthesis and evaluation of novel nitrogen-bearing heterocyclic
	hybrids as allosteric SH-2 domain-containing protein tyrosine phosphatase-2
511	inhibitors for cancer therapy

	Development and Biological Evaluation of Microbial Cocktail Formulation Targeting
512	Gut Microbiota for the Treatment of Neuropathic Pain
	Development of Doped-Zirconia Coating on Titanium Surface for Dental Implant
513	Application
514	Algorithms for Stokes parameters and polarization Imaging
	Innovative 3D Printed Fluid Antennas: Advancing Bharat's 6G Initiative with Novel
515	Materials and Structures
	Development of Antibacterial Bionanozyme-Infused Hydrogels for enhanced
516	Wound Healing
	Scalable production of graphitic carbon structure using agro waste like corn husk
517	
518	IRMA(Indian Refractory Makers Association)
519	UNNAT BHARAT ABHIYAN
	RKVY-RAFTAAR, Agribusiness Incubators (R-ABI) under RKVY-RAFTAAR Scheme
520	
	Pandit Madan Mohan Malviya National Mission on Teachers and Teaching
522	Malviya Chair for Railway Technology
523	Advanced Research Centre for Iron & Steel (ARCIS)
	Design Innovation Center (DIC)
525	Defence Corridor
526	MoRTH Chair
527	GR Infraprojects Private Ltd.
528	DC MSME & IIT (BHU)
	Machine Tool Design (CoE MTD)
530	DIA-CoE
531	IPR Chair (SPRIHA Scheme)
532	MMTTC
533	BIS Standardization Chair Professor
534	CoE for Tunelling & Underground Space Engineering
535	Software Innovation Lab and Chair Professor (Jay Chaudhary)
536	Joint Incubation Centre (JIC)
537	Regional Centre for Space, ISRO (RAC-ISRO)
538	IFFCO Chair

## List of closed/completed Sponsored projects/Schemes during F.Y. 2024-25

1	Technology intervention for creative economy
	Electromagnetic Analysis, Design and Simulation of Dual Frequency (S- and C-band )
2	Relativistic Backward wave Oscillator – A HPM Source
	A Novel, Rapid, High-Throughput Characterization of Microbiome Dynamics
3	through Cytomics and Machine Learning
	Novel Milk Exosomes for the combination therapy by using selected natural
	medicine (Paclitaxel & Colchicine) for the efficient management of breast cancer
4	
	Traditional Principles of settlement planning in heritage temple sites of Odisha/
5	erstwhile kalinga region
	Correlation studies of copper artifacts (2500-200 BCE) from Varanasi region and
6	copper mining and smelting in tribal areas of Singhbhum