



### 3.1.2

**LIST OF FACULTY MEMBERS WHO HAVE BEEN  
PROVIDED SEED MONEY DURING LAST FIVE YEARS  
(2018-2023)**

  
19/04/2023  
**Registrar**  
कुल सचिव  
Usha Martin University  
उषा मार्टिन विश्वविद्यालय  
Ranchi-835103/रांची-835103

# Usha Martin University

Village Narayansoso, Near Angara Block Office, Ranchi - Purulia Highway,  
Angara, Ranchi - 835103, Jharkhand

## 3.1.2

### List of Faculty Members who have been provided seed money during last five years (2018-2023)

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Ranchi-835103/रांची-835103

### List of Faculty Members who have been provided seed money in the year 2022-23

| S. No | Name of the Teacher       | Title of Project   | Duration | Amount granted (INR in Lakhs) |
|-------|---------------------------|--|----------|-------------------------------|
| 1     | Dr. Leena Shrivastav      | Blockchain-Based Authentication System for Supply Chain Management   | 1 Year   | 1.17                          |
| 2     | Ms. Shailza Nimmi Guria   | Integrating Telehealth Services in Nursing Practice: Assessing the impact of telehealth platforms on patient access to care, nursing workload, and patient satisfaction. | 1 Year   | 1.25                          |
| 3     | Dr. Aayushi Kumari        | Consequences of Hamstring Tightness in University Students   | 1 Year   | 1.20                          |
| 4     | Ms. Sweta Toppo           | Antagonistic and antimicrobial activity of Lactobacilli isolated from the urinary tract of female on <i>Proteus</i> species.   | 1 Year   | 1.30                          |
| 5     | Ms. Rupsa Seth            | Exploring Non-Pharmacological Behavioural Interventions for Mitigating Cancer Treatment Side Effects in Children.  | 1 Year   | 1.25                          |
| 6     | Dr. Diksha Vishwakarma    | Comparison study between myofascial release and passive stretching in upper trapezius myalgia subjects.  | 1 Year   | 1.20                          |
| 7     | Dr. Md. Saifiullah Khalid | Circular Economy Implementation in Retail Supply Chains  | 1 Year   | 1.15                          |
| 8     | Mr. Vikash Kumar          | Antimicrobial sensitivity pattern & isolation of different species of <i>Proteus</i> from clinical samples from Jharkhand.   | 1 Year   | 1.20                          |
| 9     | Dr. Akansha Anand Saxena  | Injury risk assessment in Badminton players  | 1 Year   | 1.25                          |

|    |                                 |  |        |      |
|----|---------------------------------|--|--------|------|
| 10 | Ms. Rupsa Seth                  | In-Vitro Assessment of Antioxidant and Antimicrobial Activities of Hydroalcoholic Extract from Boerhavia diffusa   | 1 Year | 1.14 |
| 11 | Dr. Madhu Vij                   | Developing a Platform for Collaborative Online Marketplaces  | 1 Year | 1.19 |
| 12 | Dr. Jagesh Kumar Ranjan         | The water drainage problems  | 1 Year | 1.20 |
| 13 | Dr. Lopamudra Satapathy         | Effect of plant growth regulators on plant growth and fruit quality of brinjal   | 1 Year | 1.16 |
| 14 | Mrs. Sangita Kujur              | Research optimal methods for sample preservation, storage, and retrieval in biobanks, ensuring the integrity of biological specimens for research purposes.                          | 1 Year | 1.12 |
| 15 | Dr. Pawan Kumar                 | Assess the effect of topical application of colostrum milk on newborns' umbilical cord healing   | 1 Year | 1.08 |
| 16 | Prof. Regina Rabello            | Assess the awareness of stem cell collection among third trimester pregnant mothers  | 1 Year | 1.15 |
| 17 | Dr. Prakash Chandra Panda       | Enhancing Digital Literacy Skills through Interactive E-Learning Modules   | 1 Year | 1.22 |
| 18 | Dr. Shimpi Kumari Chaturvedi    | Promoting Literacy and Reading Habits in Underserved Communities   | 1 Year | 1.20 |
| 19 | Dr. Hemant Singh Rana           | A Quasi Experimental study to assess the effectiveness of planned health teaching on knowledge of alcohol abuse in adolescent from selected school and junior college of Ranchi city | 1 Year | 1.16 |
| 20 | Dr. Shubhra Shekhar Chakraborty | Heritability, Correlation and genetic divergence studies in Okra   | 1 Year | 1.25 |

|    |                            |   |           |      |
|----|----------------------------|---|-----------|------|
| 21 | Dr. Arvind Kumar           | Pilot Project Proposal on Promoting Organic Farming Practices for Healthy Agriculture   | 1 Year    | 1.30 |
| 22 | Ms. Rupsa Seth             | Pharmacist-Led Smoking Cessation Programs: Evaluating the effectiveness of pharmacist-led interventions in helping patients quit smoking.                 | 1 Year    | 1.20 |
| 23 | Dr. Aaditya Singh          | Pharmacy Robotics and Automation: Examining the implementation of automated dispensing systems and robotic technology in pharmacy workflow.               | 1 Year    | 1.20 |
| 24 | Dr. A W Siddiqui           | Herbal and Dietary Supplement Safety: Analyzing the safety and potential interactions of herbal and dietary supplements with conventional medications.    | 1 Year    | 1.10 |
| 25 | Dr. Amit Kumar Prasad      | Spherically symmetric perfect fluid balls of class one in General Relativity  | 1 Year    | 1.08 |
| 26 | Dr. Md. Amir Khusru Akhtar | Smart Irrigation for Sustainable Farming: A Low-Cost IoT Solution   | 10 Months | 1.30 |
| 27 | Dr. Abhishek Pandey        | Enhancing Resin Transfer Molding Efficiency through Investigating the Curing Behaviour of Vinyl Ester Resin via Thermal and Viscoelastic Characterization | 1 Year    | 1.25 |
| 28 | Dr. Asim Ahamad            | Analysis and design of a retaining wall   | 1 Year    | 1.10 |
| 29 | Dr. Santosh Kumar Singh    | Unraveling the Art of English Sound Production: An Exploration of Articulatory Phonetics in Selected schools of Ormanjhi Block Jharkhand                  | 1 Year    | 1.20 |
| 30 | Dr. Lopamudra Satapathy    | Performance of various hybrids for growth, yield and quality analysis of Chili  | 1 Year    | 1.19 |

|    |                      |  |        |      |
|----|----------------------|--|--------|------|
| 31 | Dr. Alisha Kumari    | Study of Genetic Diversity in Black gram” ( <i>Vigna mungo L</i> ) Germplasm.  | 1 Year | 1.15 |
| 32 | Ms. Shagufa Amber    | ACL Injury prevention on young adults  | 1 Year | 1.24 |
| 33 | Dr. Amresh           | Artificial Intelligence in Drug Discovery: Exploring how AI algorithms can accelerate the drug discovery process and identify potential therapeutic targets.                         | 1 Year | 1.30 |
| 34 | Ms. Rojalini Samanta | Blockchain Technology for Drug Supply Chain Management: Exploring the potential of blockchain to enhance drug traceability, safety, and counterfeit prevention.                      | 1 Year | 1.29 |
| 35 | Dr. Shailesh Narayan | Medication Adherence and Mobile Health (mHealth) Interventions: Investigating the effectiveness of mHealth tools in improving medication adherence among patients.                   | 1 Year | 1.18 |
| 36 | Dr. Shamim           | Augmented Reality (AR) in Pharmacy Education: Studying the use of AR technology to enhance pharmacy students' learning experiences and practical skills.                             | 1 Year | 1.19 |
| 37 | Dr. Arvind Hans      | Artificial Intelligence based on 360 degree performance appraisal system   | 1 Year | 1.30 |
| 38 | Dr. Tulshi Shringi   | Investigate the use of HbA1c as a reliable diagnostic and monitoring tool for diabetes, including its accuracy in eastern population and its relationship with blood glucose levels. | 1 Year | 1.12 |
| 39 | Ms. Shagufa Amber    | Exploring the Microbial Diversity and Biotechnological Potential of Extreme Environments   | 1 Year | 1.20 |

|    |                           |  |        |      |
|----|---------------------------|--|--------|------|
| 40 | Dr. Sagar Masih           | Implementing Nurse-Led Transitional Care Programs: Evaluating the effectiveness of nurse-led transitional care initiatives in reducing hospital readmissions and improving patient outcomes. | 1 Year | 1.20 |
| 41 | Dr. Deepak Kumar Shandily | The Use of Artificial Intelligence in Nursing Workflow: Investigating how AI-powered tools can streamline nursing tasks, optimize patient care, and reduce administrative burden.            | 1 Year | 1.25 |
| 42 | Dr. Narsingh Malav        | Gamification of Cardiopulmonary Resuscitation Training   | 1 Year | 1.15 |
| 43 | Dr. Abhishek Pandey       | Iot Based Health Monitoring System   | 1 Year | 1.25 |
| 44 | Dr. Gaurav Kumar          | Flood Detection And Alerting System And Method Thereof   | 1 Year | 1.20 |
| 45 | Dr. Shiv Bhadra Singh     | Composition For Treating And Preventing Neurodegenerative Disorders And Method Of Synthesis Thereof  | 1 Year | 1.25 |
| 46 | Dr. Aman Roshan           | AI-Powered Customer Support System for E-Commerce  | 1 Year | 1.27 |
| 47 | Dr. Pallavi Harod         | A Study to Assess the Effectiveness of Mindfulness Training Program on Stress Reduction and Level of Adjustment among Students of Selected Nursing Colleges of Ranchi, Jharkhand             | 1 Year | 1.06 |
| 48 | Dr. S M Muzammil Hasnain  | Solar Ship   | 1 Year | 1.29 |
| 49 | Dr. Ritushree Narayan     | Pilot project on local medicinal herbs/shrubs: yeild value, quality testing and standardization  | 1 Year | 1.24 |

|    |                            |  |        |      |
|----|----------------------------|--|--------|------|
| 50 | Dr. Md. Modassir Khan      | Stair Climbing Mechanism To Lift Load Over Stairs  | 1 Year | 1.29 |
| 51 | Dr. Sharmistha Roy         | Ai Based Chatbot For Educational Industry  | 1 Year | 1.20 |
| 52 | Dr. Sher Jung              | An Unmanned Aerial Vehicle Based Method and System for Patrolling over Search and Rescue Area          | 1 Year | 1.25 |
| 53 | Dr. Lokesh Kumar           | Foot Step Mobile Charging  | 1 Year | 1.20 |
| 54 | Dr. Md. Amir Khusru Akhtar | MetaHeal: Enhancing Medical Diagnosis and Image Analysis with Metaheuristic Optimization in Healthcare | 1 Year | 1.10 |
| 55 | Dr. Swapna Vijay Gavande   | Advanced Intra-nasal drug delivery device  | 1 Year | 1.20 |
| 56 | Dr. Asim Ahmad             | Rechargeable Portable Mist Fan With Solar Panel  | 1 Year | 1.25 |
| 57 | Dr. Naghma Khatoon         | AI-Driven Pricing Strategies for Online Retailers  | 1 Year | 1.25 |
| 58 | Dr. Kamal Kumar Srivastava | Street Cleaner Robot   | 1 Year | 1.25 |
| 59 | Dr. Ramendra Kumar Gautam  | IoT based Virtual Doctor Robotic system  | 1 Year | 1.26 |
| 60 | Dr. Vipin Kumar            | Fixed focal point convex mirror solar water heater integrated with embedded solar power generation     | 1 Year | 1.28 |
| 61 | Dr. Naghma Khatoon         | Cold chain solutions for Indian dairy sectors with data analytics                                      | 1 Year | 1.25 |



|              |                          |  |        |              |
|--------------|--------------------------|--|--------|--------------|
| 62           | Dr. Abhishek Kumar       | Gel formulation for promoting growth of plant and method for preparation thereof.  | 1 Year | 1.28         |
| 63           | Dr. Vivek Chourasia      | Diterpenic Gabdane Galactofuranosides: Isolation & Characterization  | 1 Year | 1.25         |
| 64           | Dr. Ritushree Narayan    | Wastewater Treatment device  | 1 Year | 1.31         |
| 65           | Dr. Reetesh Yadav        | Methods of inhibiting microbial infections using zinc-containing compositions and an anti-microbial agent  | 1 Year | 1.25         |
| 66           | Dr. Kaminee Sahu         | Systematic approach for estimation of lamotrigine in bulk and pharmaceutical formulations through development and validation of HPLC method              | 1 Year | 1.24         |
| 67           | Dr. Bharat Bhusan Sharma | HR Analytics and Implementation in Education Sector  | 1 Year | 1.20         |
| 68           | Dr. Rohit Kumar          | Design of Solar Powered Seed Sprayer Machine with IoT sensor   | 1 Year | 1.20         |
| 69           | Dr. Krishna Gopal Sharma | Exploring the Impact of Repeated Simulation Experience on Self-Confidence, Critical Thinking, and Competence of Nurses and Nursing Students in Jharkhand | 1 Year | 1.20         |
| 70           | Dr. Manoj Kumar Sahoo    | Branding of indigenous rice beer (Handia)  | 1 Year | 1.30         |
| <b>Total</b> |                          |  |        | <b>84.90</b> |

  
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## List of Faculty Members who have been provided seed money in the year 2021-22

| S. No | Name of the Teacher     | Title of Project   | Duration  | Amount granted (INR in Lakhs) |
|-------|-------------------------|--|-----------|-------------------------------|
| 1     | Dr. Shailesh Narayan    | Risk assessment of winged bean starch as Pharmaceutical Excipient  | 10 Months | 1.13                          |
| 2     | Dr. Meenakshi Kumari    | The Impact of Sustainable Finance Initiatives on Corporate Financial Performance and Risk: A Comparative Analysis of ESG Integration Strategies      | 1 Year    | 1.25                          |
| 3     | Dr. Rupa Kumari         | Usage of ICT in teaching learning: A study of the pandemic   | 1 Year    | 1.25                          |
| 4     | Dr. Aaditya Singh       | Advocating Post-Operative Nurse-Led Care with Emphasis on Anesthesia in Indian Hospitals   | 1 Year    | 1.24                          |
| 5     | Dr. Dinesh Pandey       | Eco-Friendly Packaging Options for E-Commerce Businesses   | 1 Year    | 1.20                          |
| 6     | Ms. Rojalini Samanta    | Developing and evaluating the cultural competence in healthcare.   | 1 Year    | 1.09                          |
| 7     | Dr. Kirti Jain          | Exploring the Feasibility of Drone Delivery in E-Commerce  | 8 Months  | 1.08                          |
| 8     | Dr. Vikas Bhargaw       | AI-Driven Fraud Detection in Financial Transactions  | 10 mnths  | 1.15                          |
| 9     | Dr. Asim Ahamad         | Design and Optimization of a Bio-inspired Robotic Limb for Prosthetic Applications   | 1 Year    | 1.20                          |
| 10    | Dr. Nanda Shakti        | Designing and Testing a Wearable Energy-Harvesting Device for Biomedical Applications  | 7 Months  | 1.22                          |
| 11    | Dr. Lopamudra Satapathy | Developing Climate-Resilient Seed Varieties for Enhanced Agricultural Productivity   | 10 Months | 1.20                          |
| 12    | Dr. Alisha Kumari       | Empowering Women Farmers: A Seed Money Initiative for Gender-Responsive Agriculture  | 1 Year    | 1.02                          |
| 13    | Dr. Rupa Kumari         | Digital Literacy in the 21st Century: Necessity, Challenges, and Implications for Education and Society"   | 1 Year    | 1.10                          |
| 14    | Ms. Rojalini Samanta    | Precision Medicine in Pharmacy Practice: Examining the implementation of pharmacogenomics to personalize medication therapy for individual patients. | 10 Months | 1.12                          |

|    |                                    |   |           |      |
|----|------------------------------------|---|-----------|------|
| 15 | Dr. Deepak Patel                   | Pharmacist-Led Antimicrobial Stewardship Programs: Evaluating the role of pharmacists in optimizing antibiotic use and combating antimicrobial resistance.                          | 1 Year    | 1.11 |
| 16 | Dr. Vivek Chourasia                | Exploring Non-Drug Behavioral Interventions for Alleviating Cancer Treatment Side Effects in Children   | 1 Year    | 1.13 |
| 17 | Ms. Sweta Toppo & Mr. Vikash Kumar | Prevalence and antimicrobial susceptibility pattern of bacterial pathogens in UTI infection   | 1 Year    | 1.20 |
| 18 | Dr. Shailesh Narayan               | Phytochemical Analysis of Traditional Medicinal Plants in India   | 8 Months  | 1.17 |
| 19 | Dr. Anupama Verma                  | Piloting Social Media Advertising Campaigns for E-Commerce  | 1 Year    | 1.25 |
| 20 | Dr. Lokesh Kumar                   | Evaluation of Safety Management Systems in Large-Scale Mining Operations: A Comparative Study   | 1 Year    | 1.20 |
| 21 | Dr. Shubhra Sekhar Chakraborty     | Innovative Agri. Tech Solutions for Small Farms: A Seed Funding Initiative  | 10 Months | 1.29 |
| 22 | Dr. Jagesh Kumar Ranjan            | Screening of Different Cowpea Varieties for Resistance Against Major Insect Pests in Jharkhand  | 1 Year    | 1.04 |
| 23 | Dr. Amit Kumar Sharma              | Revitalizing Rural Agricultural Communities through Agri-Entrepreneurship   | 10 Months | 1.22 |
| 24 | Dr. Krishnapal Singh               | Strengthening Agricultural Extension Services for Knowledge Transfer and Training   | 9 Months  | 1.30 |
| 25 | Dr. Pankaj Tiwari                  | Telepharmacy Services in Underserved Areas: Investigating the use of telepharmacy to improve medication access and healthcare services.   | 11 Months | 1.07 |
| 26 | Dr. Reetesh Yadav                  | Pharmacists' Integration into Primary Care Teams: Studying the benefits of incorporating pharmacists into primary care settings to optimize medication management and patient care. | 7 Months  | 1.08 |
| 27 | Dr. Shoeb Khan                     | Child Rights and Child Development: A comparative analysis of Jharkhand and Bihar   | 1 Year    | 1.15 |
| 28 | Dr. Sailesh Kumar Sarangi          | Investigation on the causes of pavement failure   | 10 Months | 1.20 |
| 29 | Dr. Nanda Shakti                   | Synthesis and characterization of two dimensional materials.  | 1 Year    | 1.18 |

|    |                              |  |           |      |
|----|------------------------------|--|-----------|------|
| 30 | Ms. Rojalini Samanta         | Pharmacist Involvement in Medication Therapy for Geriatric Patients: Evaluating the impact of pharmacist-led medication reviews and interventions in the elderly population. | 1 Year    | 1.30 |
| 31 | Dr. Ajit Kumar               | Phonetic Sound Mapping of Angara Block: Identifying Speech Patterns and Characteristics  | 8 Months  | 1.25 |
| 32 | Dr. Shimpi Kumari Chaturvedi | Improving English Pronunciation: Phonetics Training for +2 Students in Angara Block"   | 1 Year    | 1.23 |
| 33 | Dr. Naghma Khatoun           | Life Span Prediction of India Coal Mines in Gondwana Coalfields to protect the Environment Ecology   | 1 Year    | 1.20 |
| 34 | Dr. Md. Amir Khusru Akhtar   | Advancing Conscious Artificial Intelligence through Machine Awareness  | 1 Year    | 1.25 |
| 35 | Ms. Tulika Sinha             | Mitigating industrial pollution in Jharkhand : Legal Strategies for a cleaner Environment  | 1 Year    | 1.30 |
| 36 | Dr. Diksha Vishwakarma       | A study of the Immediate & short term effect of MFR versus neural mobilization on pain & range of motion (rom) in individuals with unilateral cervical radiculopathy         | 1 Year    | 1.06 |
| 37 | Dr. Md. Amir Khusru Akhtar   | Affordable Smart Irrigation: Remote Monitoring and Control System  | 1 Year    | 1.25 |
| 38 | Dr. Arvind Hans              | Social Commerce: Integrating Shopping with Social Media  | 1 Year    | 1.23 |
| 39 | Mrs. Sangita Kujur           | A comparative study to know the hematological profile and biochemical profile among children with severe acute malnutrition and healthy children                             | 10 Months | 1.25 |
| 40 | Dr. K. Jyotsna               | Exploring the Role of Mathematics in Data Science: Building a Foundation for Cross-Disciplinary Research.  | 1 Year    | 1.25 |
| 41 | Dr. Sailesh Kumar Sarangi    | Development of Energy-Efficient Wireless Charging Systems for Electric Vehicles  | 1 Year    | 1.21 |
| 42 | Dr. Vipin Kumar              | Investigation of Novel Power Electronics Topologies for High-Frequency Inductive Heating Applications  | 1 Year    | 1.04 |
| 43 | Dr. Vinay Mishra             | Integration of Artificial Intelligence for Fault Detection and Diagnostics in Power Distribution Systems   | 8 Months  | 1.07 |

|    |                                |  |           |      |
|----|--------------------------------|--|-----------|------|
| 44 | Dr. Lokesh Kumar               | Analyzing the Structural Behavior and Durability of High-Performance Fiber-Reinforced Concrete   | 1 Year    | 1.20 |
| 45 | Prof. B N Dubey                | Incorporating Green Spaces in Urban Planning for Improved Air Quality and Community Well-being   | 1 Year    | 1.25 |
| 46 | Dr. Venkata Naga Lakshmi Durga | Investigating the Kinetics of Epoxy Resin Curing in Resin Transfer Molding Process   | 1 Year    | 1.22 |
| 47 | Dr. Prakash Chandra Panda      | Digital English: Integrating Technology for Language Learning in Technical Institution/Universities and Colleges of Ranchi District      | 1 Year    | 1.30 |
| 48 | Dr. Shimpi Kumari Chaturvedi   | Entrepreneurial Success: Nurturing Soft Skills for Graduating Students in Ranchi   | 1 Year    | 1.20 |
| 49 | Dr. Jayantika Pal              | Developing a Math Outreach Program for Underrepresented Communities: Bridging the Achievement Gap.                                       | 10 Months | 1.20 |
| 50 | Dr. Rajeev Kumar               | Route survey and design of pavement of road  | 8 Months  | 1.13 |
| 51 | Dr. Suneet Kumar Dwivedi       | Analysis and Awareness about Witchcraft in the tribal communities of Jharkhand   | 1 Year    | 1.15 |
| 52 | Ms. Tulika Sinha               | Study on the Importance of Police Accountability and its Impact on the Governance of Criminal Justice System in the State of Jharkhand   | 7 Months  | 1.23 |
| 53 | Dr Lopamudra Satapathy         | A Pilot Project Proposal on Enhancing Crop Productivity through Precision Farming Techniques   | 11 Months | 1.20 |
| 54 | Dr. Berandra Kumar Singh       | Genetic variability, heritability and correlation studies for growth, yield and fruit quality in Tomato ( <i>Solanumlycopersicum</i> L.) | 8 Months  | 1.10 |
| 55 | Dr. Ashok Kumar                | Harnessing Solar Energy for Efficient Irrigation in Agriculture  | 1 Year    | 1.25 |
| 56 | Dr. Azhar Khan                 | Market Expansion Strategy for Small Retailers: A Pilot Project   | 1 Year    | 1.17 |
| 57 | Dr. Sharmistha Roy             | IoT-Based Environmental Monitoring with AI Analytics   | 1 Year    | 1.25 |
| 58 | Dr. Gunendra Kumar             | Emotional Intelligence for University Youth: Cultivating Soft Skills in Ranchi's Communities   | 1 Year    | 1.30 |
| 59 | Dr. Aayushi Kumari             | Investigating the Impact of Footwear on Gait, Posture, and Musculoskeletal Injury Risk   | 1 Year    | 1.12 |

|    |                          |  |           |      |
|----|--------------------------|--|-----------|------|
| 60 | Ms. Sweta Toppo          | Investigate the impact of aging on haematopoiesis, hematologic disorders, and immune function.   | 1 Year    | 1.17 |
| 61 | Ms. Tulika Sinha         | Examining Online Gambling as a Cybercrime in India, with Emphasis on Betting and Online Games: A Comprehensive Evaluation.   | 1 Year    | 1.20 |
| 62 | Dr. Shahnaaz Zabi        | AI-Generated News: Investigating the ethical implications and credibility of using artificial intelligence to generate news articles and reports.                                | 1 Year    | 1.22 |
| 63 | Dr. Rupa Kumari          | Data Journalism and Visualization: Analyzing the use of data visualization techniques to present complex information in a visually compelling and informative manner.            | 8 Months  | 1.15 |
| 64 | Dr. A W Siddiqui         | Exploring the Potential of 3D Printing in Pharmaceutical Manufacturing: Investigating the use of 3D printing technology to create personalized dosage forms and medical devices. | 10 Months | 1.25 |
| 65 | Dr. Ruchi Patel          | Creating a Marketplace for Sustainable and Ethical Products  | 1 Year    | 1.20 |
| 66 | Ms. Rojalini Samanta     | Patient-Centered Medication Labeling: Assessing the usability and effectiveness of patient-centered medication labels to enhance medication understanding and safety.            | 1 Year    | 1.25 |
| 67 | Dr. Kaminee Sahu         | Formulation Development of Polyherbal Products for Anti-Acne Action  | 1 Year    | 1.15 |
| 68 | Ms. Shagufa Amber        | Effect of Aquatic therapy and balance board exercises on balance and coordination problem in patient with Parkinson.   | 1 Year    | 1.18 |
| 69 | Dr. Pankaj Tiwari        | Pharmacists role in palliative care; studying the contribution of pharmacists in managing symptoms, optimizing medication uses, and improving quality of life                    | 1 Year    | 1.10 |
| 70 | Prof. B. N. Dubey        | Hybrid Solar Cooling System  | 1 Year    | 1.15 |
| 71 | Dr. Lopamudra Satapathy  | Eco-Friendly Biofertilizer Composition For Plant Growth  | 1 Year    | 1.20 |
| 72 | Dr. Shailendra Pal Singh | Innovative Approaches to Mine Waste Management and Tailings Reprocessing for Environmental Sustainability  | 1 Year    | 1.15 |

|    |                         |   |              |              |
|----|-------------------------|---|--------------|--------------|
| 73 | Dr. Rajeev Kumar        | Assessment of Sustainable Mining Practices and Social Responsibility in Mining Companies  | 1 Year       | 1.25         |
| 74 | Dr. Sohail Akhtar       | Solar Charged Unmanned Aerial Vehicle (Uav)   | 1 Year       | 1.30         |
| 75 | Dr. Ritushree Narayan   | Tulsi devotiona plant: As a natural rooting hormone   | 1 Year       | 1.20         |
| 76 | Dr. Vinay Mishra        | Process design for recycling of grey water by using corn cob as an adsorbent  | 1 Year       | 1.30         |
| 77 | Dr. Munish Kumar Sharma | AI-Driven Financial Transformation: A Project Proposal  | 1 Year       | 1.24         |
| 78 | Dr. Dinesh Pandey       | Impact of ICT in Teacher Education: Exploring Behavioral Attitudes of Students  | 1 Year       | 1.18         |
| 79 | Dr. Rashmi Kumari       | Depictions of Childhood and Women in Contemporary Indian Cinema: A Descriptive Analysis   | 1 Year       | 1.30         |
| 80 | Dr. Arvind Hans         | Artificial Intelligence-based data authentication fot cyber security of Hotel's property management system using Deep learning. | 1 Year       | 1.20         |
| 81 | Dr. Utpal Singh Verma   | A study on price spread and marketing of milk and various milk products   | 1 Year       | 1.15         |
|    |                         |   | <b>Total</b> | <b>96.49</b> |

*Usha Martin*  
19/04/2023

**Registrar**

कुल सचिव

**Usha Martin University**

उषा मार्टिन विश्वविद्यालय

Ranchi-835103/रांची-835103

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UNIVERSITY

### List of Faculty Members who have been provided seed money in the year 2020-21

| S. No | Name of the Teacher            | Title of Project   | Duration  | Amount granted (INR in Lakhs) |
|-------|--------------------------------|--|-----------|-------------------------------|
| 1     | Prof. B.N. Dubey               | Potable solar tubs system for surface mining   | 1 Year    | 1.21                          |
| 2     | Dr. Jagesh Kumar Ranjan        | Enhancing the Thermal Performance of Unsaturated Polyester Resin Composites through Nanofiller Incorporation                             | 1 Year    | 1.10                          |
| 3     | Dr. Lokesh Kumar               | Development of a Low-Cost Wearable Health Monitoring Device for Remote Patient Monitoring  | 1 Year    | 1.30                          |
| 4     | Dr. Md. Amir Khusru Akhtar     | Smart City Vehicle Accident Monitoring and Detection System with Raspberry Pi 4 and MEMS/GSM/GPS Integration                             | 9 Months  | 1.20                          |
| 5     | Dr. Shiv Prakash Singh         | White Collar Crimes by Indian Companies in Shadow of Economy.  | 1 Year    | 1.30                          |
| 6     | Dr. Shubhra Sekhar Chakraborty | Assessment of the effectiveness of waste organic materials as promising substitute to sewage sludge for the treatment of acid mine water | 1 Year    | 1.23                          |
| 7     | Dr. Dinesh Kumar Pandey        | Problem of managing small scale business in the rural area(angara )  | 10 Months | 1.21                          |
| 8     | Dr. Nanda Shakti               | Optimizing Solar Cell Efficiency using Quantum Dot Nanotechnology  | 1 Year    | 1.15                          |
| 9     | Prof. B N Dubey                | Innovative Approaches to Enhancing the Durability and Sustainability of Concrete in Marine Environments                                  | 8 Months  | 1.17                          |
| 10    | Ms. Tulika Sinha               | Legalisation of Prostitution in India: An Analytical Study   | 10 Months | 1.14                          |
| 11    | Dr. Abhishek Pandey            | Design of Switched Capacitor Circuit based Sigma-Delta ADC for CMOS Temperature Sensor   | 1 Year    | 1.18                          |
| 12    | Dr. Venkata Naga Lakshmi Durga | Evaluating the Impact of Green Roofs on Urban Stormwater Management and Building Energy Efficiency                                       | 1 Year    | 1.09                          |
| 13    | Dr. Lopamudra Satapathy        | Adopting Regenerative Agriculture Practices for Soil Health and Carbon Sequestration   | 1 Year    | 1.30                          |



|    |                            |   |              |              |
|----|----------------------------|---|--------------|--------------|
| 14 | Dr. Shoeb Khan             | Assessing the Efficacy of Government Initiatives in Curtailing Court Cases in Jharkhand: A Study on the Impact of Lok Adalats, Evening Courts, Fast-Track Courts, and Naari-Adalats in Facilitating Justice Delivery. | 8 Months     | 1.30         |
| 15 | Ms. Tulika Sinha           | An Investigation into Gambling in India: Analyzing Legal and Economic Aspects   | 1 Year       | 1.25         |
| 16 | Dr. Prakash Chandra Panda  | Peer Tutoring in English: Fostering Language Improvement among +2 Students of Tatisilwayi, Ranchi Jharkhand   | 1 Year       | 1.14         |
| 17 | Dr. Jayantika Pal          | A Study on the Randomness of the Decimal Expansion of some Irrational Numbers for their Possible Use as Random Number Generators  | 1 Year       | 1.20         |
| 18 | Dr. Himanshu Verma         | Virtual Reality (VR) Training Simulations for Skill Development   | 1 Year       | 1.25         |
| 19 | Dr. Vinay Singh            | Enhancing IT Infrastructure for Remote Work Capabilities  | 1 Year       | 1.30         |
| 20 | Dr. Abhishek Pandey        | Technique used for position of DG units in distribution network   | 1 Year       | 1.30         |
| 21 | Dr. Rohit Kumar            | Healthcare monitoring using IoT devices enhanced by artificial intelligence.  | 1 Year       | 1.08         |
| 22 | Dr. Md. Amir Khusru Akhtar | Designing an IoT-Based Smart City Model on Raspberry Pi   | 1 Year       | 1.25         |
| 23 | Dr. Anupama Verma          | Innovative Marketing Strategies for Local Retailers   | 1 Year       | 1.18         |
| 24 | Dr. Leena Srivastava       | Eliminating sexual harassment in the workplace  | 1 Year       | 1.20         |
| 25 | Dr. Qaim Mehdi             | IoT-Enabled Smart Transportation with AI Algorithms   | 1 Year       | 1.20         |
| 26 | Dr. Arvind Hans            | Microfinancing Initiatives for Small Online Businesses  | 1 Year       | 1.30         |
| 27 | Dr. Meenakshi Kumari       | The best marketing strategies that satisfy customer's needs   | 1 Year       | 1.20         |
| 28 | Dr. Ashutosh Shukla        | Integrating Green Practices into E-Commerce Fulfillment   | 10 Months    | 1.10         |
| 29 | Dr. K Jyotsna              | Developing Mathematical Models for Analyzing and Predicting Socio-Economic Trends.  | 8 Months     | 1.15         |
| 30 | Dr. Abhishek Pandey        | Exploring the Feasibility of Nanoelectronics for Ultra-Fast and Low-Power Computing   | 7 Months     | 1.25         |
|    |                            |   | <b>Total</b> | <b>36.23</b> |

  
**Registrar**  
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### List of Faculty Members who have been provided seed money in the year 2019-20

| S. No | Name of the Teacher               | Title of Project  | Duration | Amount granted (INR in Lakhs) |
|-------|-----------------------------------|---|----------|-------------------------------|
| 1     | Dr. Sharmistha Roy                | AI based Chatbot for Educational Industry   | 1 Year   | 1.20                          |
| 2     | Dr. Ritushree Narayan             | Automatic Car Parking system and Method   | 1 Year   | 1.15                          |
| 3     | Dr. Md. Amir Khusru Akhtar        | Understanding Botnet Dynamics and Mitigation Strategies in India  | 1 Year   | 1.18                          |
| 4     | Dr. Md. Amir Khusru Akhtar        | Cooperative MANETs with Compressive Sensing for Enhanced Communication  | 1 Year   | 1.27                          |
| 5     | Dr. Anupama Verma                 | Automating HR Processes for Enhanced Efficiency   | 1 Year   | 1.25                          |
| 6     | Dr. Shahnaaz Zabi                 | A study of persuasive science stories and healthcare misinformation among social media users  | 7 Months | 1.12                          |
| 7     | Dr. Arvind Hans                   | Evaluating the Benefits of Cross-Functional Teams in Organizations  | 1 Year   | 1.22                          |
| 8     | Dr. Shubra Sekhar Chakraborty     | Estimation of heavy metals in soil extracts and crops grown near Municipal Solid Waste (MSW) dumped sites of Ranchi and other industrial sites of Ranchi; and Health Risk Assessment of Heavy Metals in Soil and Vegetables | 1 Year   | 1.22                          |
| 9     | Dr. Lopamudra Satapathy           | Empowering Smallholder Farmers with Climate-Resilient Farming Practices   | 1 Year   | 1.15                          |
| 10    | Dr. Shimpi Kumari Chaturvedi      | Enhancing Employability through English Communication: Skills Training for Government Universities in Ranchi District   | 1 Years  | 1.14                          |
| 11    | Dr. Nanda Shakti                  | Fabrication of Graphene based Transistor  | 4 Months | 1.13                          |
| 12    | Dr. Dinesh Pandey                 | Microfinancing for Small Business Growth: A Field Experiment  | 1 Years  | 1.08                          |
| 13    | Dr. Abhishek Pandey               | Methodology of Design and Implementation of a Smart Grid System for Efficient Energy Management in Smart Cities   | 1 Year   | 1.15                          |
| 14    | Dr. K Jyotsna & Dr. Jayantika Pal | Investigating the Feasibility of Using Virtual Reality for Geometric Visualization in Geometry Education  | 1 Year   | 1.20                          |
| 15    | Dr. Lokesh Kumar                  | Application of Advanced Geostatistical Methods for Resource Estimation in Underground Mining  | 1 Year   | 1.25                          |

|    |                              |  |              |              |
|----|------------------------------|--|--------------|--------------|
| 16 | Dr. Lokesh Kumar             | Design and Optimization of a Compact and Energy-Efficient Wind Turbine Blade   | 9 Months     | 1.09         |
| 17 | Dr. Prakash Chandra Panda    | Language Access and English Proficiency in Angara Block: A Community-Based Study   | 1 Years      | 1.15         |
| 18 | Dr. Abhishek Pandey          | Development of flexible and freestanding nanostructured poly(m-aminophenol)/Graphene Oxide (GO) hybrid nanocomposites for Supercapacitor applications                          | 8 Months     | 1.30         |
| 19 | Dr. Shimpi Kumari Chaturvedi | Enhancing English Communication Skills: A Comprehensive Training Program for higher secondary schools of Angara Block .  | 1 Year       | 1.10         |
| 20 | Dr. Nanda Shakti             | Growth of semiconducting nanowires   | 1 Years      | 1.30         |
| 21 | Dr. Anupama Verma            | Evaluating the Impact of Customer Reviews on Online Sales  | 1 Year       | 1.18         |
| 22 | Dr. Jagesh Kumar Ranjan      | Development of Advanced Polyurethane Interpenetrating Networks (PU-IPNs) for Enhanced Material Performance   | 8 Months     | 1.20         |
| 23 | Dr. Nanda Shakti             | Breaking Boundaries: Advanced Materials for Next-Gen Technology"   | 1 Years      | 1.20         |
| 24 | Dr. K. Jyotsna,              | A clustering based web prefetching in high traffic environment   | 1 Year       | 1.22         |
| 25 | Dr. Nagma Khatoon            | AI-Assisted Waste Reduction Strategies using IoT   | 1 Year       | 1.25         |
| 26 | Dr. Nitendra Singh           | Elevating English Proficiency: Empowering Educators in Tatisilwayi and Angara Block, Jharkhand   | 1 Year       | 1.20         |
| 27 | Dr. Prakash Chandra Panda    | Leveraging ICT in teaching English in the selected secondary schools of Angara Block, Jharkhand  | 7 Months     | 1.25         |
| 28 | Dr. Shashank Swami           | Design and Development of Solar thermal collector integrated with Thermal Energy storage system  | 1 Year       | 1.06         |
| 29 | Dr. Akansha Anand Saxena     | Comparative study on effect of Muscle Energy Technique (MET) Vs Spinal mobilisations on treating musculoskeletal dysfunction in non-specific mechanical Low back pain patients | 1 Year       | 1.23         |
| 30 | Dr. Vinay Singh              | Mobile App Development for Field Service Management  | 1 Year       | 1.29         |
|    |                              |  | <b>Total</b> | <b>35.73</b> |

  
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## List of Faculty Members who have been provided seed money in the year 2018-19

| S. No | Name of the Teacher                     | Title of Project  | Duration     | Amount granted (INR in Lakhs) |
|-------|---|---|--------------|-------------------------------|
| 1     | Dr. Sharmistha Roy                      | End-to-End data security in Mobile Ad-Hoc Network for surveillance by Army System using Light Weight Cryptography | 1 Year       | 1.20                          |
| 2     | Dr. Ritushree Narayan                   | Blockchain-Based Data Privacy in AI and ML Applications   | 1 Year       | 1.20                          |
| 3     | Dr. Vinay Singh                         | AI-Powered Personalized NFTs in the Metaverse   | 1 Year       | 1.07                          |
| 4     | Dr. Arvind Hans & Dr. Anupama Verma     | Digitizing Supply Chain Management: A Pilot for Small Businesses  | 1 Year       | 1.15                          |
| 5     | Dr. Anupama Verma                       | Promoting Local Artisans through E-Commerce Platforms   | 1 Year       | 1.10                          |
| 6     | Dr. Arvind Hans & Dr. Ritushree Narayan | Pilot project on local medicinal herbs/shrubs: yeild value, quality testing and standardization                   | 1 Year       | 1.10                          |
|       |   |   | <b>Total</b> | <b>6.82</b>                   |

  
 19/04/2023  
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