# Projects List

| S.No | Projects | PI / Co-PI | Institute Name |
|------|----------|------------|----------------|
| 1 | Medical Insurance claim settlement using Blockchain Technology(MRU Harayana) | Dr. Mrinal Pandey<br>Dr. Shradhha Arora | Manav Rachna University<br>North Cap University |
| 2 | Detection of financial frauds in taxation banking and in stock market | Dr. Subidh Ali<br>Dr. Sobhan Babu | Indian Institute of Technology Bhilai<br>Indian Institute of Technology Hyderabad |
| 3 | Metasurance : Blockchain based insurance administration system with ML driven dynamic prising for new metaverse | Dr. Raju Halder | Indian Institute of Technology Patna |
| 4 | HideAndSeek: Searchable Encryption on Secure Financial Databases | Dr. Dhiman Saha | Indian Institute of Technology Bhilai |
| 5 | Improving Financial Condition of farmers Through Real-Time Precision Agriculture : Plant Disease Detection. | Dr.Somajit Pramanik<br>Dr. Avishek Adhikari<br>Dr.Subhajit Sidhanta | Indian Institute of Technology Bhilai |
| 6 | Blockchain-Based Framework for Insurance Sector | Dr. Preeti Chandrakar | Indian Institute of Technology Raipur |
| 7 | "Development of Secured Voice based  AI-enabled Digital Payment Application  for Indian Regional Languages". | Dr.Nenavath Srinivas Naik<br>Dr.Anurag singh | International Institute of Information Technology, Naya Raipur<br><br>National Institute of Technology, Delhi |
| 8 | A Regularization Factor Based Noval Framework For Anomaly Detection Using Artificial Intelligence. | Dr. D.K Yadav | Motial Nehru National Institute of Technology Allahabad |
| 9 | AI Chatbots for Insurance and claim Assistance | Dr. Pradeep Singh | National Institute of Technology Raipur |
| 10 | Securing the Future: A Blockchain and AI-Powered Solution for Child Safety and Identification | Prof. Sabyasachi Mohapatra | Indian Institute of Management, Bodhgaya |
| 11 | Secure and Intelligent Platform to Combat Fraudulent Payment Mechanisms and Prank Applications in Financial Transactions | Dr. Angshuman Jana | Indian Institute of Information Technology Guwahati |
| 12 | Design and Development of a Deep Learning Assisted Smart Phone based Application Towards the Automated Cheque Clearing Process in Banking System | Prof. Soumen Bag | Indian Institute of Technology (ISM) Dhanbad |
| 13 | A PQC based - Lightweight Key Exchange Scheme for Secret Key Communication. | Bhawana Rudra | National Institute of Technology Karnataka |
| 14 | Collaborative learning for Early Detection of Frauds in Fintech (Converted in Startup) | Dr. Somanath Tripathy | Indian Institute of Technology Patna |
| 15 | Design and Implementation of Authentication and Searchable Encryption for Blockchain based fintech apllication (Converted in Startup) | Dr. Ashok Kumar Das | International Institute of Information Technology, Hyderabad |
| 16 | Dhanvantari: Emergency Ambulance Service Management Software | Dr. Barun Gorain | Indian Institute of Technology Bhilai |

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| 17 | Blockchain-Enabled Digital Identity and Authentication for Dynamic KYC (Converted in Startup) | Dr. Balaprakasa Rao Killi | National Institute of Technology Warangal |
| 18 | Smart Cleaner: Automatic Clean the Smart Contract (Converted in Startup) | Dr.Sanghartna Godboley | National Institute of Technology Warangal |
| 19 | Artificial Intelligence (Efficient AI Models for Fintech Applications: | Dr. K. T. Deepak | Indian Institute of Information Technology, Dharwad |
| 20 | Alfalgo (Converted in Startup) | Prof. Richa Agrawal | Indian Institute of Technology Madras |
| 21 | Digital Twin and Degradation Prognostics of Energy Storage Systems for Actuarial Analysis | Dr. Raghavender Medishetty Dr. Shailendra | Indian Institute of Technology, Bhilai |
| 22 | Design and Implementation of P2P Online Artwork Marketplace (Converted in Startup) | Dr.Souradyuti Paul | Indian Institute of Technology, Bhilai |
| 23 | HaJo (Converted in Startup) | Dr. Gagan Raj Gupta, | Indian Institute of Technology, Bhilai |
| 24 | Wearable Solutions for Heart Stress: A Case Study to Analyse Health and Finacial Impacts of Wearable Solutions for farmers in Chhattisgarh | Dr. Udayraj | Indian Institute of Technology, Bhilai |
| 25 | Design and Development of Fast and Secure Blockchain Enable Cross Border Transaction in Fintech | Dr. Debasis Das | Indian Institute of Technology Jodhpur |
| 26 | Deep Learning Enabled Multimodal Biometric Payment Solution with Template Protection for Differently Abled People | Dr. Mulagala Sandhya | National Institute of Technology, Warangal |
| 27 | SMART-ER: Strengthening the Emergency Care Systems in Chhattisgarh | Prof (Dr) Debendra K Tripathy, | All India Institute of Medical Sciences (AIIMS), Raipur |
| 28 | Development of remote controlled/autonomous agro-bot for fertilizer dispensing and crop condition monitoring | Dr. Purnendu Das, | Indian Institute of Technology, Bhilai |
| 29 | Capacity Building of Tribal Population in Agriculture and allied sectors | Dr. Ruchir Gupta, | Indian Institute of Technology BHU |
| 30 | Formulation of a framework for sustainable rural development with an integral approach | Dr. Kaushik Bandyopadhyay, | Indian Institute of Technology, Bhilai |
| 31 | Relevance of clinical evidence data for determining insurance premium and coverage | Dr. Narinder Singh Punn | Atal Bihari Vajpayee Indian Institute of Information Technology and Management, Gwalior |
| 32 | Financial Impact Analysis of Medical Interventions in Remote Locations Using Hand-held, User-friendly, Non--invasive,and Cost-effective Point of Care (POC) Medical Devices: A Case Study in Dantewada, Chhattisgarh | Dr. Rakesh Kumar Gupta, Dr. Satyajit Gupta | All India Institute of Medical Sciences, Raipur. |

| 33 | Design and Development of Biosensor for detection of Neonatal Jaundice | Prof. Dr. Atul Jindal | All India Institute of Medical Sciences, Raipur. |
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| 34 | Design and Development of an IoT Enabled Artificial Intelligence-based Smart Financial Framework for Automatic Medical Insurance Risk Assessment | Dr. Sourav Chandra | Indian Institute of Technology Indore |
| 35 | An AI-enabled Framework for Responsibility Allocation in Road Accident Scenarios | Dr. Soumyajit Dey | Indian Institute of Technology Kharagpur |
| 36 | Covesto- AI-Based Social Trading Platform for Retail Traders in the Indian Stock Market | Prof. Saurabh Gupta | National Institute of Technology Raipur |
| 37 | The Smart Energy Metering and Billing System (SEMB): Enhancing EVCharging Infrastructure for Efficiency and Accessibility | Dr. Shailendra Kumar | Indian Institute of Technology, Bhilai |
| 38 | A PUF-based Multifactor Mutual Transaction Authentication and Key Agreement for Secure Banking (PMMTAKA) | Prof. Bishnu Prasad Das | Indian Institute of Technology Roorkee |
| 39 | ChhattisgarhiPay: A Regional Digital Payments Solution with Multimodal Interaction Support | Dr. Balaprakasa Rao Killi | National Institute of Technology Warangal |
| 40 | Transforming Agricultural Waste into efficient Carbon materials: A Sustainable Path for Energy Storage Solutions | Dr. Katchala Nanaji | Indian Institute of Technology, Bhilai |
| 41 | Transdermal Iron Supplementation as Bindi for Women: A Novel Concept | Dr Ruchita Dixit | Shri Shankaracharya Institute of Medical Sciences, Bhilai. |
| 42 | Transferit, transfering assets | Prof. Ferdous Ahmed Barbhuiya | Indian Institute of Information Technology, Guwahati. |
| 43 | Drone-Based Advanced Approach To Smart Agriculture And Farming For Accelerating Agriculture Production | Dr SVAR Sastry | Harcourt Butler Technical University Kanpur |
| 44 | Transforming Healthcare Access Through AI-Driven Diagnostics Application and Mobile Health Solutions. | Dr Vivek Singh Verma | Harcourt Butler Technical University, Kanpur |
| 45 | Usage of natural fibers for Biodegradable Products – Model for Government Economy Subsidy for the upliftment of the rural and tribal community. | Dr Yagnesh Shadangi, | Indian Institute of Technology, Bhilai |
| 46 | Cultivation And Enzymatic Extraction Of Natural Fibers And Bioproducts For Textiles And Other Applications To Enhance The Income Of Farmers. | Dr.Arun Upadhayay, | Indian Institute of Technology, Bhilai |
| 47 | Manufacturing Cost Estimation using Digital Twin of Manufacturing Processes | Dr. Rinku Mittal, Prof. Soumya Gaingopadhyay, | Indian Institute of Technology Guwahati, |

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| 48 | Exploring Health and Financial Impact Analysis of Medicinal Plants through Product Development and Scientific validation in remote Location of Chhattisgarh: Bridging Tribal Indigenous Knowledge through Artificial intelligence | Dr.Rajesh Mundotiya | Indian Institute of Technology, Bhilai |
| 49 | Blockchain-based P2P energy trading platform for rooftop solar PU users | Dr. Rhythm Singh | Indian Institute of Technology Roorkee |
| 50 | Accessible banking functionalities for Divyang (Visually Impaired) using smart ATM. | Prof. Santosh Biswas | Indian Institute of Technology Bhilai |
| 51 | A Smart revenue optimization framework for on-demand scheduling & routing of heterogeneous EVs. | Arijit Mondal | Indian Institute of Technology Patna |
| 52 | Seamless integration of payment and activities in an educational campus through smart card and behavioral analysis of collected data. | Dr. Amit Dhar | Indian Institute of Technology, Bhilai |
| 53 | Design and development of a 'Shramik Bhugtan Seva Kendra(SBSK)' for timely payment to the beneficiaries residing in far-flung areas under various government scheme (Converted in Startup) | Dr. Nikhil Chander | Indian Institute of Technology, Bhilai |
| 54 | AI based geo-enabled crop insurance and farm equipment renting solutions under BhoomiCam Pvt. Ltd. Startup (Converted in Startup) | Dr.Siddhartha Khare | Indian Institute of Technology Roorkee |
| 55 | Vibration Analysis of motors using machine learning | Prof. Trapti Jain | Indian Institute of Technology Indore |
| 56 | Blockchain based Seed Traceability along with IoT enabled Precision Agriculture and AI Powered Lending/Renting of Farm Implements (Converted in Startup) | Dr. Ravi Saxena | Indira Gandhi Krishi Vishwavidyalaya Raipur |
| 57 | Application of thermal radiography and AI for detection of surface defects in blooms/ billets during continues casting process | Dr. Rahul Jain | Indian Institute of Technology, Bhilai |
| 58 | Augmenting Livelihoods through GI: A case study on Chhattisgarh | Dr. Anubhav Pradhan<br>Sonal Jha<br>Dr. Anindita Ghosh<br>S. Paul | Indian Institute of Technology Bhilai |
| 59 | Blockchain based healthcare funding and Seamless Medical Claim Settlements and Reimbursement through Data Locker | Dr. D R Ramesh Babu<br>Milind Madhukar Deore | Dayanand Sagar College of Engineering, Banglore |
| 60 | Co-lending platform for meeting the priority sector goals of India | Dr. Vijaya Bhaskar Marisetty | Indian School of Business. Hyderabad |

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| 61 | Healthcare Empowerment through Real-time Insurance Assessment | Dr. Sanjay Moulik, | Indian Institute of Information Technology Guwahati |
| 62 | Development of mHealth Solution in Remote Tribal Areas of Manipur through a Customized Mobile Solution | Dr. Benjamin Shimray, | National Institute of Technology Manipur |
| 63 | Smart Health Solutions for Cattle | Mr. Golmei Shaheamlung, | Manipur Technical University |
| 64 | Indigenous Medicines of the North Eastern India: From Traditional Knowledge Transfer(T-KT) to the Sustainable Livelihoods Among Schedule Tribes (ST) Communities of Assam and Meghalaya via Fintech | Mr. N K Kaphungkui, | Dibrugarh University Institute of Engineering and Technology |
| 65 | Development of an UPI Integrated Mechanism to Increase GST Compliance | Dr. Rantu Hazarika, | Dibrugarh University |
| 66 | A Blockchain Based Rating Framework For Transparency and Credibility of Financial Transactions in Self Help Groups(SHGs) | Mr. Melur Phangcho, | Cotton University |
| 67 | Monitoring Pineapple Cultivation and Harvesting using Drone | Dr. Lithungo K Murry, | National Institute of Technology, Nagaland |
| 68 | Supply Chain Management for Agricultural Products of Mizo Farmers using Blockchain and Machine Learning | Dr. R . Lalchhanhima, | Mizoram University |
| 69 | Design and Develop of AI-based Applications for Medicinal Plant consumed by Bodo Community Residing in BTR Assam used in Daily Basis | Mr.Rinku Basumatary, | Bodoland University |
| 70 | An application platform for cold storage service of perishable food items for the rural street vendors of Guwahati, Assam | Dr. Debojit Boro, | Tezpur University |
| 71 | Smart Task Management for the unorganized workers in Mizoram | Mrs. Vanlalmuansangi Khenglawt, | Mizoram University |
| 72 | Scalable, Indigenous and Driver-Friendly Ride-Hailing Application | Dr. Sijousa Basumatary, | Bodoland University |
| 73 | Sustainable Smart Parking Solution for Aizawl City | Dr. Morrel V L Nunsanga, | Mizoram University |

| 74 | Leveraging AI/ML for Customized Credit Assessment of the Bodo Tribe in the Bodoland Territorial Region | Mr. Raju Narzary,<br><br>Mr. Deepak Hajoary, | Bodoland University |
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| 75 | Modelling and Visualising Bodo Tourism and Marketing Bodo Souvenirs with Fintech-Based Solutions Using AR and VR Technology in the Bodoland Territorial Region(BTR) | Dr. Yachang Omo, | Central Institute of Technology Kokrajhar |
| 76 | Inclusive Fintech- Bridging The Gap in Communities through Order Financing | Dr. Deboraj Muchahary, | National Institute of Technology Raipur |
| 77 | Financial Empowerment in Meghalaya: AI-Powered Multilingual E-Marketplace for Tribes | Dr. Basil N. Darlong Diengdoh, | National Law University Meghalay |
| 78 | Economic Optimization Platform for Public Transport System of Mizoram (Converted in Startup) | Dr. Lalhruaizela, | National Institute of Technology Mizoram |
| 79 | "NagaConnect: Integrated Common Application Platform for Boosting Employment and Business Opportunities in Nagaland | Mr. Chenlep Yakha Konyak, | Nagaland University |
| 80 | Development of the Online Mithun Trading Platform for Arunachal Pradesh | Dr. Marpe Sora, | Rajiv Gandhi University, Arunachal Pradesh |
| 81 | Integrating Khasi Language into Fintech Technologies through Speech Translation | Ms. Fidalizia Pyrtuh, | North Eastern Hill University |
| 82 | Empowering Northeastern Artisans and Farmers: A Blockchain-Powered Marketplace | Dr. Phrangboklang Lyngton Thangkhiew | Indian Institute of Information Technology Guwahati |
| 83 | Enhancing Agriculture Practices in Mizoram Towards Sustainable Development Using Machine Learning and Deep Learning | Dr.V.D.Ambeth Kumar | Mizoram University |
| 84 | Empowering Meghalaya's Tribal Artisans and Farmers with a Secure Blockchain-Fintech Solution | Dr Sainkupar Mn Mawiong | North-Eastern Hill University, Shillong |
| 85 | "Traditional knowledge of medicinal plants consumed by primitive tribes of Bastar Chhattisgarh: Development of database and strategy for value addition and sustainable livelihood via Fin-tech" under the Tribal Area Sub plan (TSP) | Dr. Nagendra Kumar Chandrawanshi | Pt. Ravishankar Shukla University, Raipur |
| 86 | "Design And Development of IoT Accessed Secure E-Finance Platform for Managing Severe Acute Malnutrition among Vulnerable Tribes Population in Chhattisgarh | Dr. Chandrashekar Jatoth | National Institute of Technology Raipur |

| 87 | Design and Implementation of Financial Tracking and Management E-platform for Chartered Professional Accountants | Dr. NingrinlaMarchang | North Eastern Regional Institute of Science and Technology |
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| 88 | AI-Driven Financial Empowerment: FinTech for All: Improving Financial Literacy & Inclusion in the Scheduled Tribe Community and Development of an AI-Based Mobile Application | Dr. Sunil Kumar Kumeti | Pt. Ravishankar Shukla University Raipur (C.G.) |
| 89 | Development of a software platform to connect housemaids to the prospective employers | Dr. Davidson Pyngrope | North Eastern Hill University-Shillong |
| 90 | A Platform For Cost-Efficient Public Health Service Delivery in Mizoram(Converted in Startup) | Dr. K Vanlalawmpuia<br><br>Dr. Lalhruaizela | National Institute of Technology Mizoram. |
| 91 | NE-Finance: Empowering the North-East through P2P Lending | Dr. Juwesh Binong | North-Eastern Hill University (NEHU), Shillong |
| 92 | Model Digital Training Center for Women | Dr. Thounaojam Rupachandra Singh | Manipur University |
| 93 | IoT & AI Based Cost Benefit Analysis Platform for Sustainable Agriculture in Mizoram | Dr. R. Chawngsangpuii | Mizoram University |
| 94 | A Fintech Application for Cost Benefit Portfolio Suggestion Regarding Locally Available Aggregate by Quality Assessment and Modified Concrete Made of Recycled Waste and Bamboo as Partial Replacements Versus Traditional Concrete | Dr. Ricky Lalthazuala | National Institute of technology, Mizoram |
| 95 | AI assisted end to end Fintech assistance solutions for farming system for oil seeds (mustard, sunflower, etc.) cultivation in Mizoram | Dr. Chaitali Koley<br><br>Dr. Sushanta Bordoloi | National Institute of Technology Mizoram |
| 96 | Development of a Deep Learning Model for Diabetic Retinopathy Detection in Mizoram | Dr. Lalhmingliana | Mizoram University |
| 97 | "Mao language Automatic speech recognition (ASR)" under the Tribal Area Sub Plan (TSP) | Sinawon Raiping<br><br>Dr. Yambem Jina Chanu | National Institute of Technology,   Manipur |
| 98 | "UAV Assisted Emergency Resource Allocation for Remote Tribal People in Disaster for Bastar areas of Chhattisgarh" under the Tribal Area Sub Plan (TSP) | Dr. Mou Dasgupta | National Institute of Technology, Raipur |

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| 99 | "Design and Development of Blockchain System for Monitoring and Protecting of Scheduled Tribal Land Records of Srikakulam, Visakhapatnam, Adilabad, Mahbubnagar regions of Andhra Pradesh and Telangana | Dr. E. Suresh Babu | National Institute of Technology, Warangal |
| 100 | "Development of cost analysis-based tools for enhancing the accessibility of medicine in the tribal population of Chhattisgarh | Dr. Rakesh Tirkey | Pt. Ravishankar Shukla University, Raipur, Chhattisgarh |
| 101 | "Development of Rongmei/Kabui, English and Manipuri Multilingual Electronic Dictionary | Dr. Raju Rajkumar | Pravabati College, |
| 102 | "Development of IoT based Smart Compact Energy Meter (ISCEM) for Monitoring and Controlling the Power Quality Issues in a Smart Building | Dr. Pradeep Kumar | National Institute of Technology Sikkim |
| 103 | Economic Upliftment of the Tribes Residing in Balrampur District Through their Cultural Heritage | Dr. Nitesh Kumar Mishra | Pt. Ravishankar Shukla University, Raipur |
| 104 | Adaptation of Indigenous and Local Knowledge Systems and Fintech Solutions for Comprehensive Tribal Development in Chhattisgarh State | Prof. Harshit Sosan Lakra | Indian Institute of Technology, Roorkee |
| 105 | "Novel Strategies to Tackle Water and Soil Contamination by Health Hazardous Pollutants using Computational Tools a Small Steps Towards Sustainable Agricultural Practices" under the Tribal Area Sub plan (TSP) | Dr. Hemanta Kumar Kisan | Indian Institute of Technology, Bhilai |
| 106 | "Digital Agri Village - Advancing the Digital Transformation of Agriculture in Tribal Dominating Areas of Chhattisgarh" under the Tribal Area Sub plan (TSP) | Dr. D. P. Singh<br><br>Dr. Ravi R Saxena | Indira Gandhi Krishi Vishwavidyalaya, Raipur |
| 107 | "Healthcare and Community Medicine Empowerment of Underprivileged Tribal-Population: Biological Validation of Cancer and Sickle Cell Anemia" under the Tribal Area Sub plan (TSP) | Dr. Ramasamy Mayilmurugan | Indian Institute of Technology, Bhilai |
| 108 | "Development of a Platform for Tripura's Handicraft Empowerment using Ensemble Technologies | Dr. Somen Debnath<br><br>Dr. Abhishek Majumder | Tripura University, Agartala, Tripura |
| 109 | "Large Language Model (LLM) for Disease Management and Improved Healthcare Services for Bhartiya Adivasi Communities" | Prof. Nitin Kumar | Dayananda Sagar College of Engineering, Bangalore |

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| 110 | "Economic Feasibility Study and Process Parameter optimization for Mahua flower-based Ethanol production for the Upliftment of Tribals of Chhattisgarh" under the Tribal Area Sub plan (TSP) | Dr. Chetankumar Pratapbhai Patel, | Indian Institute of Technology, Patna |
| 111 | "Development of an Intelligent System for Weather Forecasting, Smart Farming And Information Dissemination for the Scheduled Tribe Community of Barak River Basin using Satellite Image Processing, ML and IoT" under the Tribal Area Sub plan (TSP) | Dr. Somanth Mukhopadhyay | Assam University, Silchar |
| 112 | "Understanding Fintech and training Based intervention to develop Financial Inclusiveness among Scheduled Tribe population of Mohla-Manpur-Ambagarh Chowki District" under the Tribal Area Sub plan (TSP) | Mr. Om Prakash Rana | Govt. L. C. S. PG College, Ambagarh Chowk |
| 113 | "Training and Skilling Manpower for Smart Solid Waste Management in Urban Hilly Areas" under the Tribal Area Sub plan (TSP) | Dr. H.Lalhminsanga | National Institute of Technology,  Mizoram |
| 114 | "Empowering Indigenous Bastar Art for Socio-economic Upliftment of ST Communities of Chhattisgarh" under the Tribal Area Sub plan (TSP) | Dr. Shailesh Mani Pandey | National Institute of Technology Patna |
| 115 | DASH- Digital Cash Solutions Based on CBDC | Dr.Dhiman Saha | Indian Institute of Technology Bhilai |
| 116 | Scaling the sustainable Smart parking  Solution for Urban mobility in Aizawl and beyond | Dr. Morrel VL Nunsnga | Mizoram University |
| 117 | Development of a Financial Platform Leveraging Geospatial Technology for Supply Chain Analytics in Food Logistics and Crop Health monitoring by Bhoomicam Pvt Limited | Dr. Siddhartha Khare | Indian Institute of Technology, Roorkee |
| 118 | Precision AgriHub: Smart Farming Solutions For Smallholders with IoT, AI and Data driven Insights | Dr. Ravi R Saxena<br><br>Dr.Udayraj | Indira Gandhi Krishi Vishwavidyalaya<br>Indian Institute of Technology Bhilai |
| 119 | Predictive Analysis & Fintech Integration for Enhanced Emergency Department Efficiency | Dr. Naman Agrawal | All India Institute of Medical Sciences  Raipur |
| 120 | Generative AI-Powered Interactive Support For Banking & Insurance Services in Hindi & Kannada Regional Language | Dr. K. T Deepak | Indian Institute of Information Technology,  Dharwad |
| 121 | TrustInn: Umbrella Industry Tool for Validating Blockchain System | Dr. Sanghratna Godboley | National Institute of Technology, Warangal |