



### **3.1: Promotion of Research and Facilities**

3.1.1: Institutions Research Policies are frequently updated and there are well defined policy for promotion of research which is uploaded on the institutional website and implemented

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# R&D Manual



# **BHARATIYA VIDYA BHAVAN'S SARDAR PATEL INSTITUTE OF TECHNOLOGY 2022 23**

## **Abbreviations Used:**

R&D: Research and Development

RPS: Research Proposal Submission

IEDC: Innovation and Entrepreneurship Development Centre PRUIS: Promotion of research and innovation for undergraduate students CDEEP: Center for Distance Engineering Education Programme

IPR : Intellectual Property Rights

DST : Department of Science and Technology

CSIR: Council of Scientific and Industrial Research

BRNS: Board of Research in Nuclear Sciences

DBT: Department of Biotechnology

ICSSR: Indian Council of Social Science Research

MoU: Memorandum of Understanding

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R&DPM 3.0

## **Preamble**

At Bharatiya Vidya Bhavan's Sardar Patel Institute of Technology, Research is an integral part of the academic activity carried out within various undergraduate and postgraduate programs. The Research and Development (R&D) center facilitates various research programs by channelizing various research projects and consultancy works in various departments of the Institute. The Research activities include Academic research and funded research projects and patents in the Faculty of Engineering and Technology. The students and Staff are encouraged to innovate through quality research in emerging areas.

The advancement of laboratories is a key role of the Research and Development center of the institute. The Research and Development center acts as a liaison between funding agencies and the Institute to handle sponsored research projects and industrial consultancy assignments. The main objective is to maintain the quality and breadth of its research enterprise, and particularly for its openness to multidisciplinary research.

The research philosophy is to progress from inter-departmental collaboration, to inter institutional partnerships at national and international levels. The scope and scale of research has substantially evolved from the era of student theses to funded projects to interdisciplinary research programs at state and national level. The Centre facilitates interaction with external agencies at national and international level.

By looking at changing requirements of industry, the objective of Research and Development Cell is to ensure that we hold on to our position at the cutting edge of innovation by encouraging interdisciplinary research.

**Dr. Y. S Rao**  
**Dean (Research and Development)**

# **1. Vision, Mission, Objectives**

## **Vision**

**“Ideate, Invent and Innovate propositions with enduring value to ecosystems”**

## **Mission**

- To inculcate a research oriented approach to the future generation through research, scholarship, education, preservation, and excellent academic practice that can serve all sectors of society.
- To carry out free exchange of ideas in an ethical, interdependent, and diverse community of faculty, students, and alumni.

## **Objectives**

- To encourage and promote cutting-edge research based on the proven capabilities and expertise of our faculty and students.
- To help facilitate strengthening of the Institute's research capabilities; proactively promote basic research and monitor quality of research work done.

## **Strategies**

- Identify and develop opportunities for the faculty to engage in research.
- Define criteria and modalities for students to avail research opportunities.
- Propose roundtables, conferences and working groups on a series of thematic areas central to the research work, publication of papers and reports of the students.
- Modalities of accepting, reviewing, and benchmarking research work.
- Establish linkages with institutions and universities in India and outside to secure resources to provide facilities to scholars.

## **Short Term Goals**

- Getting sponsorships/stipends for students to develop products.
- Improve the quality of publications in standard journals.
- Conduct student's development programs on cutting edge Technologies.

## **Long Term Goals**

- Collaborating with agencies at national/ international levels for IPR and consultancy.

## **Offerings from R & D**

- Conducting the events categorized into workshops, seminars, training, and certification.

- Motivate students/faculty to organize and attend conferences/workshops/Training.
- Helping students/faculty in execution of research initiatives planned by team R&D.

## Industry Mentoring

Industry has been providing many mentorship sessions for students and faculty for Industry exposure, latest technology and providing mentoring sessions for their startup. These sessions are being held on a year to year basis.

## Alumni

SP-IT Alumni has been instrumental in mentoring and helping students for Internship and better placements. The mentoring sessions by SP-IT Alumni have been great in clarifying students' doubts and a great guide for planning their future. The structured mentoring sessions for sponsored products are being worked out and would start soon with a pilot run soon.

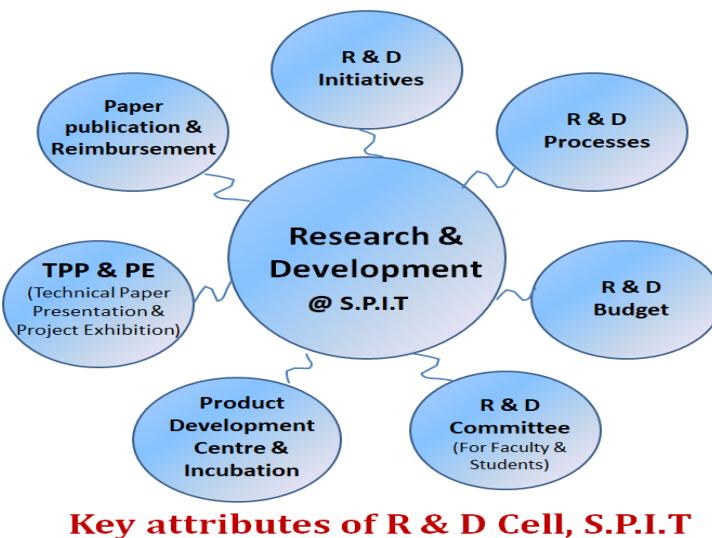


Fig.1: Key attributes of SP-IT R&D Cell

## Departmental Research Cell and Major Thrust Areas

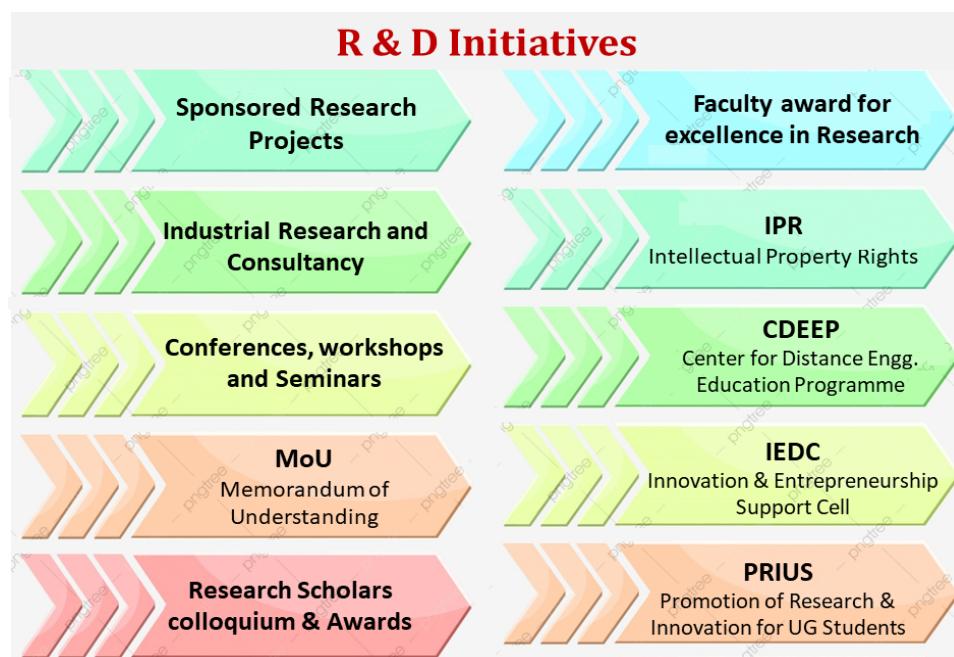
- R & D is set up to provide specialized administrative and managerial support for the operation of sponsored research, consultancy and other R&D related activities of the Institute. The overall R&D structure as shown in Fig.1 encompasses the Executive Committee, Faculty Research committee and Student Research committee.
- Departmental research cells are formulated with faculties and students. Faculties of SP-IT are very much dedicated and research oriented and thus seed the same research attributes within students.
- SP-IT faculty team consists of vibrant and proactive faculty who supervise and organize activities for encouraging research culture through paper presentation and project

exhibition competitions. The center is having a vibrant 24x7 Culture and running on a dedicated area admeasuring nearly 4000 square feet.

## R & D Lab

Departments are equipped with state-of-the-art laboratories such as Networking Lab, IoT Lab, Communication Lab, Algorithm Lab, VLSI Lab, Instrumentation and Control Lab, DSP Lab, Database and Cloud Computing Lab, etc; which facilitate to accomplish the research objectives for developing robust solutions using latest technologies across the Departments. This helps increase productivity and development of new ideas using emerging technologies.

## S.P.I.T. R&D Initiatives



- **Promotion of Research and Innovation for Undergraduate Students (PRIUS):** R&D Centre supports undergraduate students in the research laboratories, for international collaborative research projects, and encouraging projects leading to innovation.
- **Innovation and Entrepreneurship Support Cell (IEDC):** R & D center supports to create entrepreneurial culture in the parent institution and other institutions in the region and to promote entrepreneurship through student projects. S.P.I.T. IEDC cell helps the innovator for successful filling of the patent application.
- **Center for Distance Engineering Education Programme (CDEEP):** R & D several Continuing Education Programs (CEPs) and short term courses for students and faculty with IIT-Bombay are organized to update their knowledge and skills, and also to train them in state-of-the-art facilities.

- **Sponsored Research Projects:** The R & D section facilitates the submission of sponsored research projects by faculty members to various funding organizations such as Department of Science and Technology (DST), Council of Scientific and Industrial Research (CSIR), Board of Research in Nuclear Sciences (BRNS), Department of Biotechnology (DBT), Indian Council of Social Science Research (ICSSR), and many more.
- **Industrial Research and Consultancy:** In order to foster strong links with industry for collaborative research, technology transfer, and specialized human resource development, consultancy services are offered to industrial partners, government organizations, and other agencies in niche areas of expertise available within the institute.
- **Conferences, Workshops and Seminars:** Several conferences, workshops and seminars are organized at national and international levels to facilitate interaction and sharing of the latest results and findings in various specialized areas. Such events also act as an interface between industry, academia and government organizations and promote exchange of ideas.
- **Memorandum of Understanding (MoU):** S.P.I.T. has signed MoUs for conducting training programs, availing R&D facilities etc. with Texas Instruments, Bangalore, DPLM Software Solutions Limited, Geometric Ltd., Mumbai, Simtek Medico System Pvt. Ltd, Microtech Inductions Pvt. Ltd, Mumbai, D Link India Ltd. Indian Institute of Technology, Bombay, Gadhia Solar Energy System Pvt. Ltd. Valsad, Ministry of Science and Technology, New Delhi, Xilinx, XUDP, USA, Ericsson India Pvt. Ltd, Haryana, Secure Matrix India Pvt. Ltd, Mumbai, Visvasvaraya National Institute of Technology, Nagpur, Infosys, Pune, Wipro Technologies , Pune, IBM India Ltd., TCS Ltd, Mumbai.
- **Research Scholars Colloquium and Awards:** Research colloquium activity is conducted at S.P.I.T. during the ICCICT conference. The activity is open to all faculty, students and research scholars. The goal is to make aware and facilitate interaction and sharing of the latest results and findings in faculty and interested students about on-going research projects.
- **Faculty Award for Excellence in Research:** Dean R & D initiates award of excellence for all departments of S.P.I.T. for best faculty (in R & D perspective) award. The motivated teachers deserve recognition and encouragement. R & D research centre appreciates excellent research activities conducted by faculty members by granting a faculty award.
- **Ph.D. Program:** Along with UG and PG programs, SP-IT is also offering Ph.D. program in the fields of Electronics, Telecommunication, Computer and MCA. The details are available at: <https://phd.spit.ac.in/>

## Achievements and activities

### A. Product Development Centre (SP-PDC):

#### Vision of PDC

To bring-out the overall development of students in the sphere of innovation, to instil a sense of creativity in sync with technical aspects to harness invention and innovation.

#### Mission of PDC

- To convert project to prototype for commercialization
- To develop and test hardware/Software products
- To provide technology support for creative product development
- To develop skills required for end-to-end and competitive product development.
- To provide infrastructure support and guidance for students group awarded by industry

#### About PDC

- It has been newly established on campus to support the industries to grow and develop their businesses through innovative products and services. The main industrial electronics, power electronics, automation and Communication. The services provided by this center to industries are as follows:
  - Technology support for new Marketable product development
  - To take outsourcing system-design jobs from the existing projects in industry and deliver them promptly related to above domains
  - To take up consultancy jobs to help industries in solving specific issues
  - To work on development of next generation products in the field of renewable, electric vehicles and IOT Applications
  - Mentorships for competitive product development
  - To offer a platform to Alumni, students and faculties for converting their ideas into marketable products
- **Infrastructure Funding:** A financial support of INR **15,00,000** has been provided for establishment of **PDC** by **SP-IT Alumni Network** with the aim at undertaking product development jointly with Alumni & industry experts. The center provides working space enabled with high speed computers and other software required for product development. We encourage students and faculty to develop various products by using this facility. Presently PDC is having almost INR 50 Lakhs worth projects from industry.

- **Ongoing Project under PDC**

- a) **BioMS:** Funded by TI-IIDC 2018-19

- Product: Self adapting and actuating prosthetic leg for above knee amputees.

- Description: BioMS utilizes state of the art machine learning methods to understand the human gait thoroughly and devised a product which is a prosthetic leg, dynamic in nature. It adapts to the user's walking style and stance, as such uses only non-invasive sensors fastened to the user's legs and thighs.

b) **Starlyte:** Funded by TI-IIDC 2018-19

Product: Road Borne Light Powering System.

Description: Starlyte is a self-powering system that generates electricity using the movement of vehicles. This generated electricity will be stored in a storage unit that can be used to power nearby amenities.

c) **Industrial Signal Simulator:** Funded by TI-IIDC 2018-19

Product: Integrated Multifaceted Signal D3GS (Debugger, Controller, Calibrator, Convertor, Generator, Simulator) using IoT for Industrial Usage.

Description: This device provides error detection, sensor calibration, generation of industrial standard signals, conversion of standard signals to the required industrial standard signal along with IoT features and DBMS associated with an Android App for the remote controlling and monitoring.

d) **Aqua Care:** Funded by TI-IIDC 2018-19

Product: Aquaculture Monitoring and Feedback System.

Description: The system provides a complete solution to monitor all vital water parameters namely pH, turbidity and temperature in real time and gives the farmer immediate alerts in case of a problem

e) **High Power Battery Charger:** Funded by General Auto Electric corporation

Product: 4.5kW Battery Charger for the Indian Railways

Description: GAEC is looking for the development of a Battery Charging Systems compatible with Railway's requirements and specifications. The proposed DC-DC converter is air cooled/naturally cooled, high conversion efficiency, safety, protection, temp, shock and vibration, as per standards (IEC/EN;UIC/AAR; and IS).

f) **Universal Solar Pump Controller:** Funded by Sileaf Tech. Pvt Ltd, Pune

Product: Universal controller for powering any agrarian load from solar energy.

Description: Development of Universal Controller to work for water pump sets of capacities ranging from 3 HP to 10 HP and for other types of motors used in agriculture equipment.

g) **Controller for Induction Casting Machine:** Funded by Riddhi-Heatron

Product: Controller for jewelry casting machine using induction heating

Description: The controller should provide auto-frequency tracking features with different coils and the prototype controller PCB must be tested successfully in the field at the Machine Capacity of 12kW with IGBT based High frequency Inverter.

h) **Development of Software Applications to Maintain Service Calls:**

Funded by Suyog Telematics

Product: Application to monitor maintenance activities

Description: Mobile application for servicing maintenance calls, opening and closing of maintenance service tickets and keeping track with all the data-bases stored in cloud server to track history and record. This application also needs to develop a maintenance-website and two mobile applications linked to that one for service people and another for an administrator.

i) **Student Attendance report:**

The S.P.I.T. The app aims to help students by providing an easy way to view and keep a track of attendance and also stay updated with all the updates or announcements regarding results, events, seminars/talks and urgent notices and also timetables. Parents can stay in loop with their ward's attendance and performance in college.

**j) Student Research Paper Evaluation:**

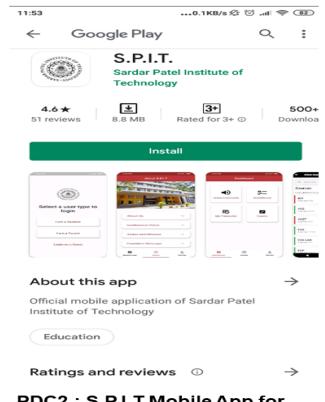
This is an online website which stores publication details of students, research scholars and faculty. This is a common repository of all publication data. Reports from this website helps to understand student wise, department wise faculty wise, conference wise, journal wise publication details.

**k) Student performance evaluation:**

This is a framework based dynamic website developed to decide best student of the year. Students who wish to apply for the best student will apply giving all their information such as academic, research publication, project publication, extra-curricular activities. Based on the submission admin will give marks as per the information. Reports generated will rank the student based on their performance

### Some photos of Software Products:

PDC 1: Portal for reimbursement of paper publication



PDC3 : portal for Student Performance

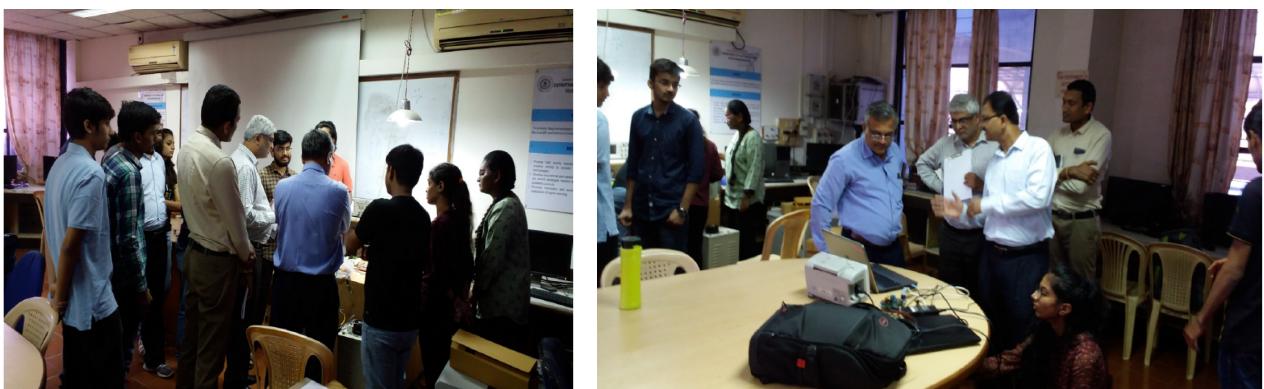
### Some photos of Hardware Products:



### Some photos of PDC Infrastructure

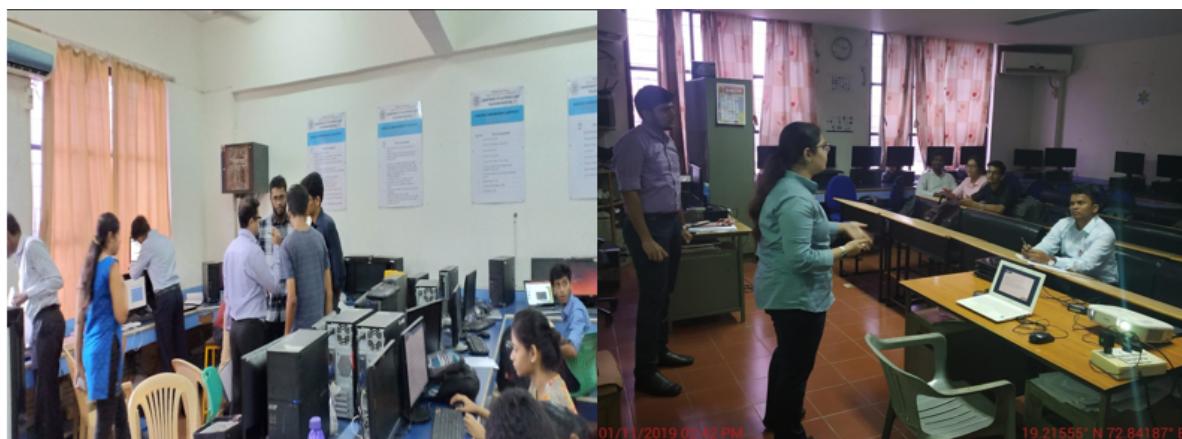


### Some photos of Exhibition and Feedback from Industry:



## **B. Technical Research Paper Presentation and Project Exhibition**

To encourage a research aptitude and provide a competitive environment, the R&D Cell Conducts Technical Paper Presentation and Project Exhibition competitions every year for final year students of the college. The Technical Paper Presentation competition evaluates the research paper writing skills and paper presentation skills of students using a set of specialized rubrics for evaluation. The purpose of this competition is to help students to actually engage in writing quality research papers and thus publish in various conferences and journals. The project exhibition competition allows students to demonstrate their projects and are generally evaluated by industry experts like Quantiphi, Capgemini, Zeuva (SP-TBI Start up), RGM Technologies Pvt. Ltd, Bitgenie Pvt. Ltd., Liminal Pvt. Ltd, etc. This gives student valuable insights to help them think and conceptualize their idea from a product based point of view.



Glimpses Technical Paper Presentation and Project Exhibition Competitions

## **C. Reimbursement Policy**

The R&D Cell provides a reimbursement of up to INR 5000 per title to encourage students for paper publication. In the last 3 years, our students and faculty have published close to 500 papers in various reputed conferences and journals. Research patents are drafted and filed on a yearly basis by SP-IT students and faculty through the IEDC cell. Some of these patents are converted into business models, some of them converted to products.

## **D. Participation in Events**

SP-IT encourage students to participate in various research oriented events like hackathons and other projects for exposure to real-world problems in a competitive world. Every year, about 15-20 groups consistently participate in very reputed and recognized competitions like Texas Instruments, E-Yantra, Smart India Hackathon. Our students have done us proud and have been winning prizes at several such competitions over the years.

## **E. Funded projects**

SP-IT faculty members work on funded projects and collaborate with industry for consultancy opportunities every year. Every department has professional forums who organize and assist several activities within the department and institute.

## F. Workshop

Several workshops/talks based on research related activities like paper writing, patent drafting are arranged and organized by the R&D Cell on a regular basis. Such workshops help with improving the overall research environment and creating opportunities for publishing research papers, articles in conferences and journals and drafting patents.



## G. Grant (DST / SICOM/SP-TBI)

- With continuous follow up with DST and by showcasing our suitable environment we were able to get support from DST for setting up a full-fledged TBI and received grant for Recurring/Non recurring expenditure to the tune of 4-17CR for period 5 years 2015/2016.
- The setting up infrastructure and sharing of progress report of TBI resulted in getting approval of SEED FUND of INR 10CR towards NIDHI Fund for encouraging start up for which the first installment of 2CR has been received
- Due to SP-IT great interaction and consistent follow up SPIT were able to get CSR support from SICOM for INR 50 Lakhs.

## H. Industry Awards

- The industry has been awarding top performer students towards Academics/ Project / Best Innovative ideas every year.

## **2. Structure of R & D**

### **R & D Committee, S.P.I.T.**

- ❖ Dr. Y. S. Rao - Dean R&D - [ysrao@spit.ac.in](mailto:ysrao@spit.ac.in)
- ❖ Dr. R. R. Sawant – Incharge, PDC - [rajendra.sawant@spit.ac.in](mailto:rajendra.sawant@spit.ac.in)
- ❖ Prof. K. T. Talele – Incharge, IEDC - [kiran.talele@spit.ac.in](mailto:kiran.talele@spit.ac.in)

#### **Coordinators for each department**

- Dr. Aarti Karande – MCA Department – [aartimkarande@spit.ac.in](mailto:aartimkarande@spit.ac.in)
- Dr. Amol Deshpande – EXTC Department - [amol\\_deshpande@spit.ac.in](mailto:amol_deshpande@spit.ac.in)
- Prof. Renuka Pawar– I.T. Department - [nikahat\\_kazi@spit.ac.in](mailto:nikahat_kazi@spit.ac.in)
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- Prof. Anand Godbole – COMPS Department - [anand\\_godbole@spit.ac.in](mailto:anand_godbole@spit.ac.in)
- Prof. Abhijeet Salunke– COMPS Department - [abhijeet\\_salunke@spit.ac.in](mailto:abhijeet_salunke@spit.ac.in)

### **3. Departmental Research Cell and Major Thrust Areas**

#### **1. Research and Development Cell at Computer Engineering Department**

**Abstract** - The Department of Computer Engineering is in a mission mode to increase the number of innovative and mostly multi-disciplinary research through the untiring effort of faculty members and students. This results in nurturing research activities, procurement of equipment and development of state of the art research facilities. These projects address the requirements of real-life problems. More importantly, one of the major mandates of the Department of Computer Engineering is to participate in the international conferences and reputed Journals. The issue of concern to society is also addressed by the faculty members and students through sponsored projects. The deliverables of the R&D endeavor are innovative affordable technology and products.

#### **Objectives:**

1. To develop appropriate algorithms for incorporating security provisions and opportunistic networks design in different flavors of computing like Distributed, Mobile, Parallel, High Performance, Cloud and Internet of Things.
2. To develop system and applications programs by optimizing, analyzing and investigating the theoretical analysis of the algorithms.
3. To extract important insights through systematic computational analysis of data or statistics for designing intelligence systems.

#### **Facilities:**

<b>Research Domains</b>	<b>Description</b>	<b>Facilities / Resources</b>
Networks and Security	Internet of Things, Mobile Computing, Distributed Computing, Parallel Computing, High Performance Computing, Parallel and Distributed Systems, Cloud Computing, Information Security, Network Security, Cyber Security, Web Security, Cryptography and System Security, Digital Forensics, Cloud Security.	Networking Lab
Computation & Algorithms	Algorithm, Data Structures, Discrete Structures, Theoretical Computer Science, Computer Organisation and Architecture, Operating System, System Programming, Compiler Construction, Structured and Object Oriented Programming, Digital Signal Processing, Image Processing, Computer Graphics, Multimedia Systems and Applications.	Algorithm Lab

Design, Intelligence and Analytics	Machine Learning, AI, Neural Networks, Soft Computing, Databases, Software Engineering, Data Warehousing, Mining and Analytics, Human Computer Interaction, Digital Logic Design and Analysis, Service Oriented Architecture, Enterprise Resource Planning.	Post Graduate Lab
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**Table 1: Lab facilities in Computer Engineering department**

## **2. Research and Development Cell at Electronics and Telecommunication Engineering Department**

**Abstract** – The Electronics and Telecommunication department proposes with a vision and mission to pursue and promote Research and development activities in frontier technologies. An academic environment is created in the institution and necessary facilities are provided to encourage and carry out research. The focus is on the development of high-performance, energy efficient, customizable solutions benefitting society at large. These laboratories will develop a new wave of ideas, technologies, networks, and systems that change the ways in which people (and devices) interact, communicate, collaborate, learn, teach, and discover. Simulation and Design, PCB Fabrication, Back-end Processing, and Characterization and Measurement will also be undertaken.

### **Objectives:**

1. To implement various algorithms and test beds in wireless networks, UWB systems, Optical networks, speech, audio and video processing, develop software tools for data analysis.
2. To develop appropriate algorithms that encompasses security and encryption solutions for seamless integration of various subsystems from the application to physical subsystem.
3. To develop system and applications by optimizing solutions in emerging areas of antennas Embedded systems and VLSI.
4. To encourage students and faculty to publish in peer reviewed research journals and Patent their work.

### **Facilities**

<b>Research Domains</b>	<b>Description</b>	<b>Facilities / Resources</b>
Modern digital signal processing.	Wireless networks, UWB systems, Optical networks, speech, audio and video processing	Digital communication Research Lab

Cyber Physical Systems	Antennas, Embedded systems and VLSI	IoT Physical System Lab
Systems and security	Computer Networking, Encryption, Data compression, IOT, Cloud computing	Communication system Lab

**Table 2: Lab facilities in Electronics and Telecommunication Engineering Department**

### 3. Research and Development Cell at Electronics Department

**Abstract** - The department of electronics engineering has a vision to train the students and faculties to become competent researchers so as to realize product oriented innovative ideas with focus on enhancing the quality of research. In lieu to this it becomes mandatory to create an environment that shall motivate researchers to foster growth of scientific and technical knowledge for the betterment of mankind. Department has four research groups namely VLSI and Embedded Systems, Instrumentation & Control and Signal & Image Processing. All the faculty members of department are associated with these groups depending on their area of expertise. These group have published papers in peer reviewed journals and international conferences. Now department has a mission to publish patents and increase industry interaction.

#### Objectives:

1. To investigate the issues in novel semiconductor technologies and propose the solutions.
2. To develop applications using latest technologies available in instrumentation, signal processing and power electronics.
3. To get research grants from various agencies for development of laboratories.
4. To increase number of publications in reputed journals and patents.

#### Facilities:

New facilities are also created in the department. R&D facilities in the domain of MEMS, Instrumentation, Biomedical, Image Processing and Power Electronics are updated with advanced technologies recently.

Research Domains	Description	Facilities / Resources
VLSI and Embedded System	Primarily the research is carried out in Novel circuit Design, Device Simulation, Embedded Product Design and VLSI Communication Circuits.	VLSI LAB: Visual TCAD, Vivaldo, TI MSP Board, Keil Embedded Software

Signal and Image Processing	primarily research is carried out in Biomedical Signal Processing, Machine Learning and Video Analytics	DSP LAB: DSP Boards , Matlab Software
Instrumentation and Control	research is focussed in Simulation and design of instrumentation systems, Power Electronics System, Renewable energy and Biomedical systems	Instrumentation and Control LAB : SIM, C2000 Boards, Induction Motors, (3 phase), D C Motors, Labview, NI Elvis, T.I. PMLK boards, PLC(Allen Bradly)

**Table 3: Lab facilities in Electronics Engineering Department**

#### **4. Research and Development Cell at Information Technology Department**

**Abstract**— Information Technology department of S.P.I.T. stride towards improving the technical education offered to engineering aspirants thereby equipping them for the ever evolving technology domain. The key goal of the department is to provide a creative atmosphere in which higher studies and research thrive amongst the faculty and students. The department encourages the students and faculty to undertake the research in newly emerging frontier areas of Engineering, Technology, Science and multidisciplinary fields. The Department enhances the research capability by encouraging their participation in conferences, seminars, workshops and project competitions.

#### **Objectives:**

1. To unify the research activities in data analytics from the perspective of both information systems and computer science.
2. To improve computing performance by harnessing the power of the graphics processing unit.
3. To illustrate concepts in image processing and analysis through actual processing of images.

#### **Facilities:**

Research Domains	Description	Facilities / Resources

Data Analytics	To process and analysis a huge volume of data sets using Hadoop. Working with mining concept for large volume of data.	Database Lab
Distributed System	A private cloud was setup to understand benefits of virtualization Reusable application components for uses in cloud solutions. CUDA Lab for high performance computing using parallel processing.	Cloud Computing Lab, CUDA Lab, Networking Lab
Image Processing	To enhance and process images for various applications. Project are undertaken which focus on biometric applications.	Multimedia/Image Processing Lab

**Table 4: Lab facilities in Information Technology Department**

## **5. Research and Development Cell at Master of Computer Application Department**

**Abstract** - The Department of Master of Computer Application is in a mission to increase the number of innovative and applied research through untiring effort of faculty members and students. We aim to create zeal amongst students and faculty members towards research and innovation. More importantly, to work closely with the industrial needs that eventually will result in new or improved products, processes, systems or services that can increase the company's productivity. R&D cell thrives to establish collaboration with other universities, public and private sectors and identify R&D projects including consultancy services which could be undertaken at the department/ institution.

### **Objectives:**

1. To develop system and application to optimize, analyze and secure the solution using latest technologies.
2. To design, analyze and develop a system using intelligence and analytic techniques.

### **Facilities:**

<b>Research Domains</b>	<b>Description</b>	<b>Facilities / Resources</b>
Security	Information Security, Network Security, Cyber Security, Cryptography and System Security.	Networking & Database Lab
Design, Intelligence and Analytics	Soft computing, Machine Learning, Data Mining, Big Data Analytics (Proposed), Service Oriented Architecture, Natural Language Processing.	Operating System & Programming Technology Lab

**Table 5: Lab facilities in Master of Computer Application Department**

## **4. S.P.I.T. R&D Initiatives**

### **1. Promotion of Research and Innovation for Undergraduate Students (PRIUS) (Proposed)**

To promote and support research and innovation based projects amongst undergraduate students; R&D Centre has proposed a new scheme through which it supports:

- undergraduate students in the research laboratories
- undergraduate students for international collaborative research projects, and
- encouraging projects leading to innovation

The scheme is applicable for undergraduate students enrolled at S.P.I.T. and a part of the PRIUS project must be carried out at S.P.I.T. For the implementation of this scheme, the student who wishes to pursue an undergraduate research project must identify a faculty supervisor from S.P.I.T. PRIUS undergraduate projects should typically run for a period of at least six months and it is to be understood that these projects will not in any way come in the way of the student's regular academic obligations and requirements for fulfilling the requirements for the award of degree. Undergraduate students identified to utilize this opportunity must finish their work before the end of final semester of the coursework. The proposed maximum funding per annum for a research proposal is Rs. 25,000/-

### **2. Innovation and Entrepreneurship Support Cell (IEDC)**

Department of Science and Technology (DST), Government of India, funded Innovation and Entrepreneurship Development Centre (IEDC) has been set up at S.P.I.T. The IEDC grant was sanctioned on 15th April 2010 for the establishment of IEDC at S.P.I.T. The total sanctioned amount was Rs.44,55,000/-- for a period of five years with the following mission and objectives.

**Mission:** Develop Institutional mechanism to create Entrepreneurial culture in academic Institutions to foster growth of innovation and entrepreneurship amongst the faculty and students.

#### **Objectives:**

- To act as an institutional mechanism for providing various services including information on all aspects of enterprise building to budding entrepreneurs.
- To create Entrepreneurial culture in the Parent Institution and other institutions in the region and to promote entrepreneurship including programmes related to women and weaker sections of the society.
- To inculcate a culture of innovation driven entrepreneurship through student projects
- To promote development of knowledge-based enterprises and employment opportunities in innovative areas.
- To respond effectively to the emerging challenges and opportunities both at national and

international level relating to SMEs and micro enterprises.

### **3. Center for Distance Engineering Education Programme (CDEEP)**

S.P.I.T. has established a center for distance engineering education on 7<sup>th</sup> March 2012 as a CDEEP, RC center of IIT-Bombay and also NPTEL local chapter of IIT-K on 25<sup>th</sup> Jan. 2017. CDEEP organized several continuing Education Programmes (CEPs) and Short Courses for students and faculty with IIT-Bombay. This will enable faculty and students to update their knowledge and skills, and also to train them in state-of-the-art facilities.

### **4. Intellectual Property Rights (IPR)**

S.P.I.T. Promotes innovations and facilitates protection of Intellectual Property (IP) of its faculty and students. While a formal framework to guide the implementation is an evolving process, S.P.I.T. has an IEDC cell to help the innovator for successful filling of the patent application. Parties engaged in creations of original and innovative work at S.P.I.T. Include undergraduate and postgraduate students, and faculty members. Provision has been made for IPRs and CopyRights in the budget.

A standard process has to be implemented for sem 6 selected projects under Mini Project Category. Selected top ranked groups will be encouraged to publish patents in the replacement of the research paper. The R & D committee will provide financial support up to Rs. 10000/- for registration of each patent. In collaboration with SP-TBi and each department, various training and monitoring sessions will be arranged for selected groups.

### **5. Sponsored Research Projects**

The research and development section facilitates the submission of sponsored research projects by faculty members to various funding organizations such as Department of Science and Technology (DST), Council of Scientific and Industrial Research (CSIR), Board of Research in Nuclear Sciences (BRNS), Department of Biotechnology (DBT), Indian Council of Social Science Research (ICSSR), and many more. An important strategy to facilitate Research and development activities was the creation of a substantial reserve of research funds to facilitate research work of students. This fund enables the students to apply for resources to the Research committee by submitting a research proposal so as to reduce dependence on sponsored research. Each research proposal received by the center is sent for a blind review to a referee (a panel of senior and experienced researchers in the relevant field) who comments on the clarity and focus including rationale of the proposed study, logical flow of ideas, methodology, feasibility, originality and contribution to knowledge. The reviewer's comments are shared with the researcher to help strengthen the proposal.



## **6. Industrial Research and Consultancy**

In order to foster strong links with industry for collaborative research, technology transfer, and specialized human resource development, consultancy services are offered to industrial partners, government organizations, and other agencies in niche areas of expertise available within the institute. The services at S.P.I.T. are categorized as Testing and Consultancy. For obtaining expert services from S.P.I.T. In the concerned fields, contacts may be made with:

- Concerned faculty member directly, or
- Head of the Department of the department concerned, or
- Dean, Research & Development (especially, in case of interdisciplinary projects)

## **7. Conferences, Workshops and Seminars**

S.P.I.T. has organized several conferences workshops and seminars at national and international levels to facilitate interaction and sharing of the latest results and findings in various specialized areas. Such events also act as an interface between industry, academia and government organizations and promote exchange of ideas. Research scholars gain much needed exposure through these events which are critical to their educational experience and preparing for the future research endeavours.

## **8. Memorandum of Understanding (MoU)**

Research and Development (R & D) centre facilitates the signing of MoU related to research activities with different organizations on topics of mutual interests. S.P.I.T. has signed MoUs with the following organizations/universities/institutes for conducting training programs, availing R&D facilities etc. Texas Instruments, Bangalore, DPLM Software Solutions Limited, Geometric Ltd., Mumbai, Simtek Medico System Pvt. Ltd, Microtech Inductions Pvt. Ltd, Mumbai, D Link India Ltd. Indian Institute of Technology, Bombay, Gadhia Solar Energy System Pvt. Ltd. Valsad, Ministry of Science and Technology, New Delhi, Xilinx, XUDP, USA, Erricsion India Pvt. Ltd, Haryana, Secure Matrix India Pvt. Ltd, Mumbai, Visvasvaraya National Institute of Technology, Nagpur, Infosys, Pune, Wipro Technologies , Pune, IBM India Ltd., Tata Consultancy Services Ltd, Mumbai.

## **9. Research Scholars Colloquium and Awards**

Research colloquium is the proposed activity conducted at S.P.I.T. The activity is proposed to be conducted annually. The presentations on ongoing research projects at S.P.I.T. are given. The sponsored/funded projects are included in this activity. The activity is open to all faculty, students and research scholars. The goal is to make aware and facilitate interaction and sharing of the latest results and findings in faculty and interested students about on-going research

projects in S.P.I.T. This event promotes exchange of ideas. Research scholars gain much needed exposure through this event which is required for educational experience and preparing for the future research endeavors. The award is given to the best presentation.

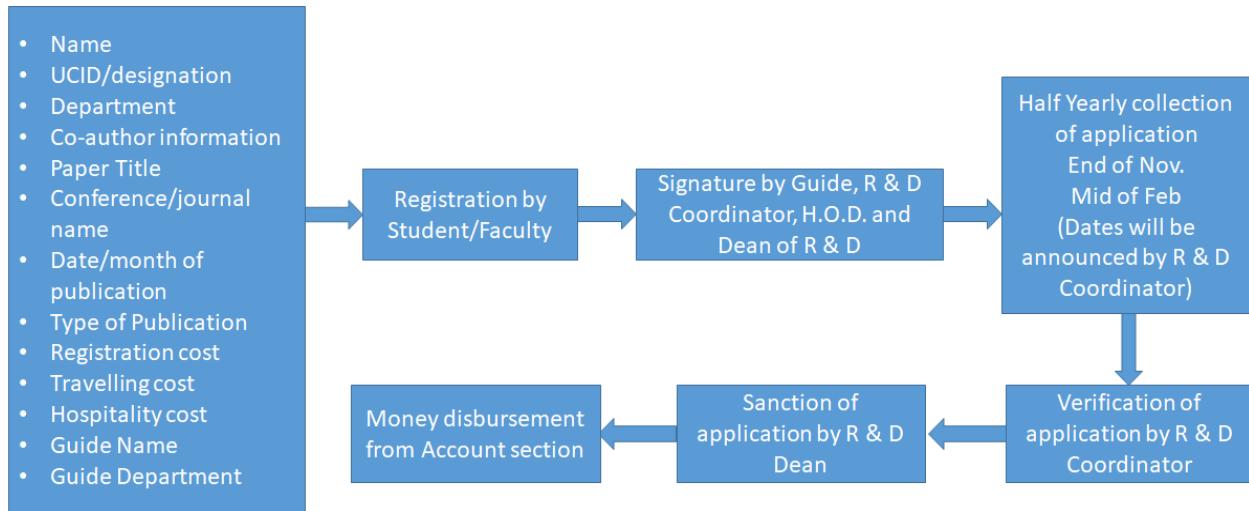
## **10.Faculty Award for Excellence in Research**

Dean R & D initiates award of excellence for all departments of S.P.I.T. for the best faculty (R & D perspective) award. The motivated teachers deserve recognition and encouragement. The R & D research center appreciates excellent research activities conducted by faculty members by granting a faculty award. This appreciation will be measured against specific criteria such as publications in national and international journals, conferences and transactions including book chapter; patent applications; organizing value added courses; external recognitions for carrying research activity; consultancy and including other criteria which have national or international level significance. Such criteria are measured in quantitative as well as qualitative analysis.

## **5. Processes**

- a. Technical Research Paper Participation (Reimbursement)
- b. Project Exhibition
- c. Promotion of Research and Innovation for Undergraduate Students
- d. Technical Research Paper Presentation Competition
- e. Best Research award – Faculty and Students
- f. IEDC - The Innovation and Entrepreneurship Development Center
- g. Patent -IPR
- h. Consultancy / Grant
- i. PDC - Product Development Center

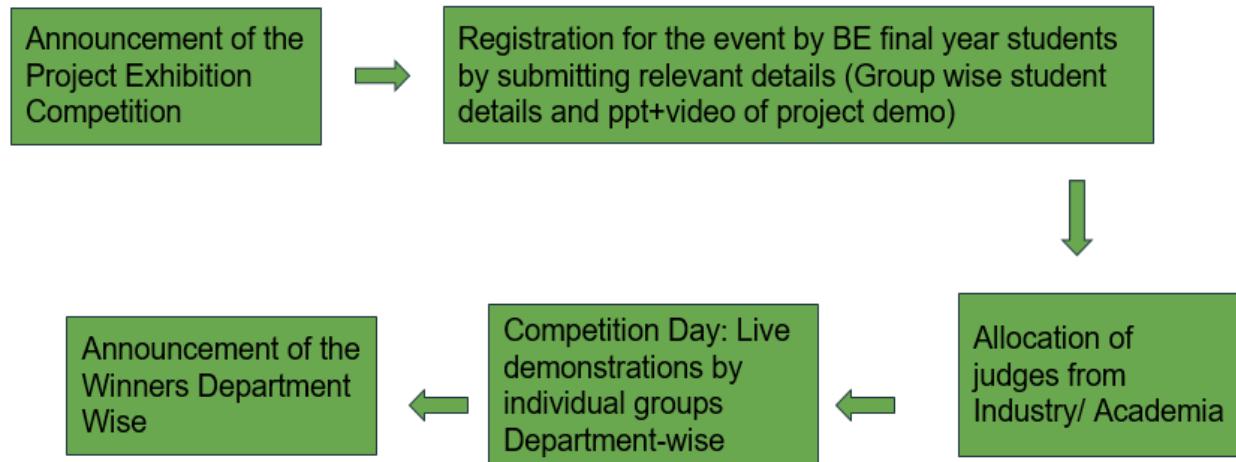
## a. Technical Research Paper Participation (Reimbursement)



This process collects all research paper details from students and faculty for reimbursement. Data collection includes information about the paper like title, conference/journal information.

- Registration: Fetch Data for the papers as per student / faculty
  - Name of the Student, UCID, Dept / Name of the Faculty, Dept, Designation
  - Name of the Co-author (Student with their name, UCID, dept)/name of the co-author faculty (Name, dept, designation)
  - Name of the guide (Dept, name)
  - Title of the paper
  - Name of the conference, date, hosting institute name and venue, type of conference/name of the journal, date of publication, type
  - Reimbursement details like registration cost, traveling cost, stay cost(both for student/faculty)
- Reimbursement Application:
  - Collected requests will be sanctioned for research paper reimbursement by both (faculty/ Student)
  - admin will be sanction/decline the application
- Report generation: based on the type (year, dept, program)
- Choose the type of reports needed (Comparison total strength for last 1/3/5 years)
- Generate Excel Sheet of the Statistics based on the above selections.
- Analyzing the data and creating visualizations for understanding the static and growth percentage compared to past data
- Yearwise amount utilized for UG/PG/Ph.d should be declared

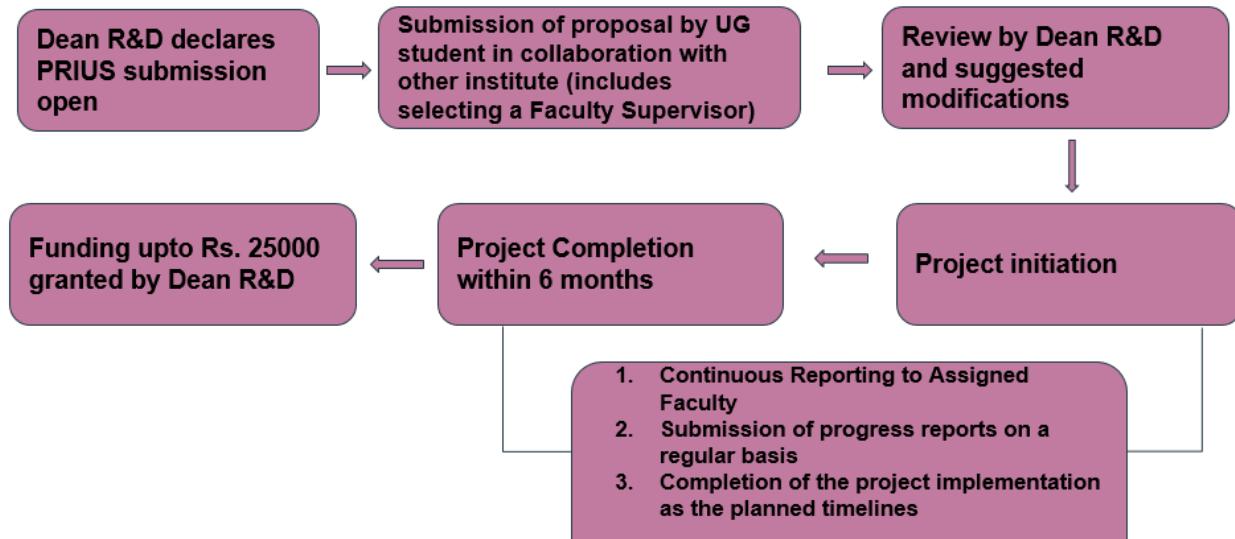
## b. Project Exhibition



This process is an event for organizing yearly project competition among final year students (UG) across all branches of the institute.

1. Announce the date for the competition.
2. Registration link of teams for the event with the following provisions: Choose the type (year, dept, program)
3. Form for registration must contain:
  - Academic year
  - Department
  - Group No. and provision for adding 2-4 students: UCID, Name, Email details
  - Project Title
  - Video upload link
  - PPT upload link
  - or bulk upload option with the above fields
4. External Judges for the competition must be allocated
5. Generate different reports based on the following categories.
  - Winners year-wise
  - Winners department-wise year-wise list
  - Winners for last 2 years/3 years/ 5 years customizable
  - Students participated list-Category-wise department-wise/ Category-wise overall/ overall count category-wise/overall list/count under each heading-pie-chart/barchart (Statistical Reports)
  - No. of groups list year wise department wise
6. Year wise amount utilised for the competition should be declared
7. Sponsorship from SP-TBI should be accommodated

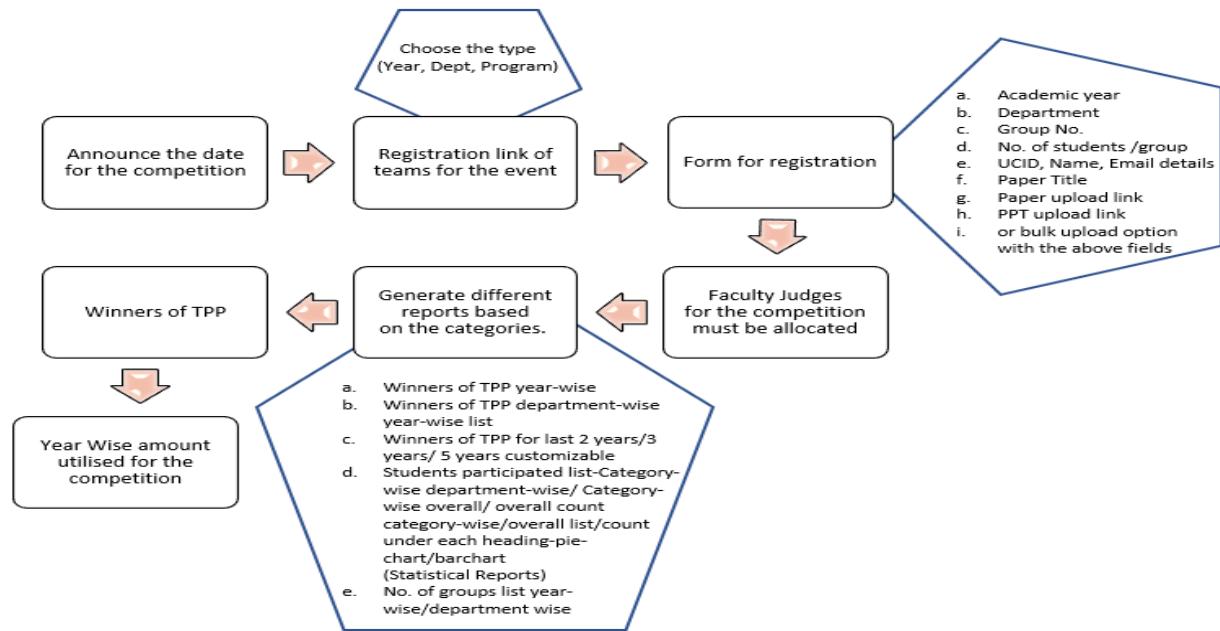
## c. Promotion of Research and Innovation for Undergraduate Students (PRIUS)



This process is for providing financial assistance to UG students for national/ international collaborative research work with other institutes. The UG student has to identify a faculty supervisor from S.P.I.T. and must work with the faculty towards completion of the research project undertaken. PRIUS Projects should typically run for a period of at least 6 months.

1. Students must register the project undertaken specifying details
2. Registration form must contain:
  - Academic year
  - Department
  - Student details: UCID, Name, Email
  - Project Title
  - Details of the collaborating institute/company
  - Faculty Supervisor Details
  - Funding details from collaborating institute
3. Student to be provided facility to add monthly/weekly project progress report approved by faculty supervisor
4. Faculty supervisor should be able to approve monthly/ weekly progress report
5. Generate different reports based on the following categories.
  - Project details year-wise
  - Projects department-wise year-wise list
  - Project details for last 2 /3 / 4/ 5 years customizable
  - Pie-chart/barchart (Statistical Reports) for previous n years
6. Amount sanctioned for each project to be approved by Dean R&D

## d. Technical Paper Presentation



This process is an event for organizing yearly project competition among final year students (UG) across all branches of the institute.

1. Announce the date for the competition.
2. Registration link of teams for the event with the following provisions: Choose the type (year, dept, program)
3. Form for registration must contain:
  - a. Academic year
  - b. Department
  - c. Group No. and provision for adding 2-4 students: UCID, Name, Email details
  - d. Paper Title
  - e. Paper upload link
  - f. PPT upload link
  - g. or bulk upload option with the above fields
4. Faculty Judges for the competition must be allocated
5. Generate different reports based on the following categories.
  - a. Winners of TPP year-wise
  - b. Winners of TPP department-wise year-wise list
  - c. Winners of TPP for last 2 years/3 years/ 5 years customizable
  - d. Students participated list-Category-wise department-wise/ Category-wise overall/ overall count category-wise/overall list/count under each heading-pie-chart/barchart (Statistical Reports)
  - e. No. of groups list year-wise/department wise
6. Year Wise amount utilised for the competition should be declared

## e. RESEARCH AWARD PROCESS- For Faculty and Student

1. applications will be invited from teachers and students regarding the activities done in the current academic year.
2. Evaluation criteria for teacher / students need to be framed separately
3. formation of the Evaluation team will be done. (suggestion)
4. Evaluation analysis needs to be carried out.
5. Announcement of the result ( winner ) is declared.
6. Following factors may be considered ( tentative ) which may be revised from time to time.\*\*

### \*\*Research award - Criteria for Student

#### Criteria I : Research Publications

1. Publication of technical papers in national and international journals (Preference will be given for publications in SCI & SCOPUS journals) (International/ National)
2. Presentation and publication of technical papers in referred national and international seminars, conferences, symposiums, etc. (International / National)

#### Criteria II : Sponsored projects handled

1. University Grant for Minor/ Major project
2. AICTE Grants

#### Criteria III: Other Professional Recognitions & Contributions

1. Patents awarded ( International / National )
2. Professional recognitions: Awards / best papers
3. Professional body memberships

### Research award - Criteria for Faculty

#### criteria I : Research Publications

1. Publication of technical papers in national and international journals (Preference will be given for publications in SCI & SCOPUS journals) ( International/ National )
2. Presentation and publication of technical papers in referred national and international seminars, conferences, symposiums, etc. ( International / National )

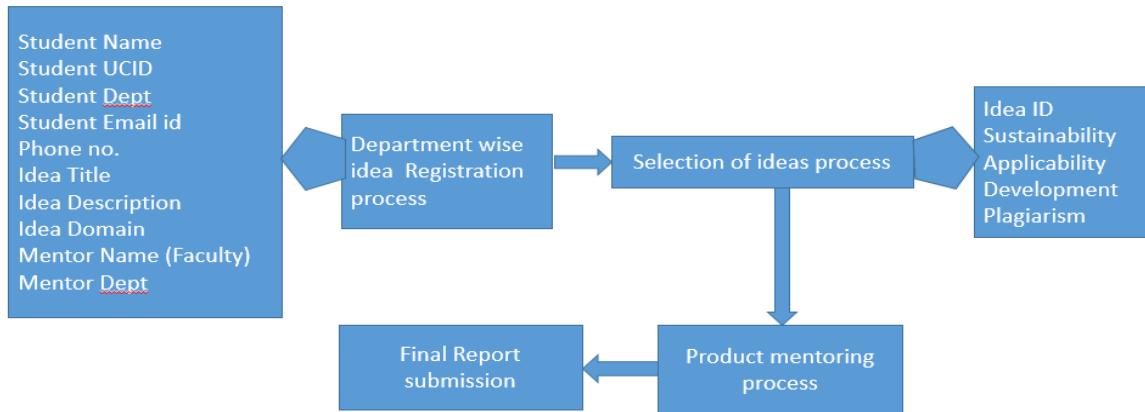
#### criteria II : Research Guidance

1. Research Guidance of PhD Thesis ( supervisor / Co supervisor )
2. Research Guidance of PG Dissertations ( guide / co Guide )

#### criteria III : Sponsored projects handled

1. Externally funded R&D Projects Handled: For Principal Investigators: / co-investigator )
2. Industry Sponsored Projects (Consultancy Works)
3. University Grant for Minor/ Major project
4. AICTE Grants

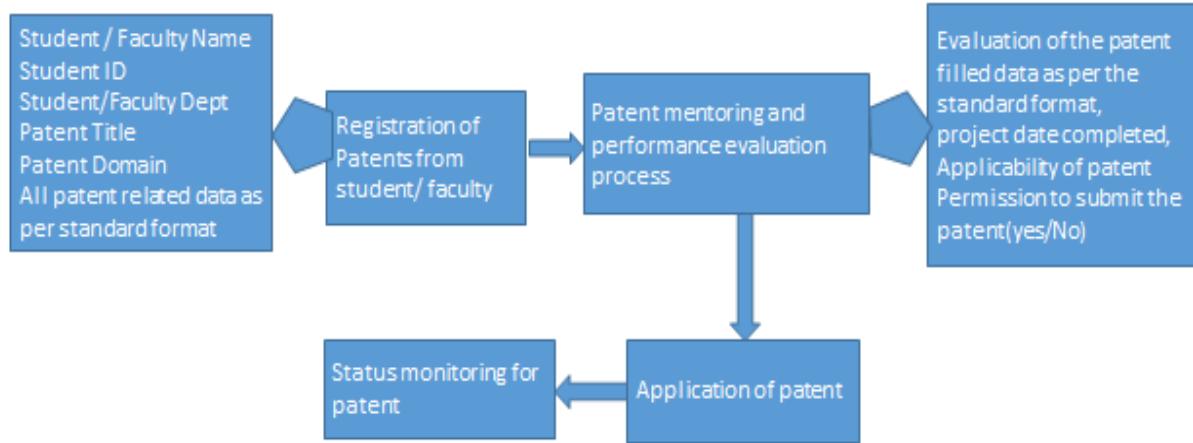
## f. IEDC(The Innovation & Entrepreneurship Development Center)



IEDC will work for development of innovative ideas. It takes few students' ideas under its wing through the Student Startup Programme. These ideas will be purely tech-based ideas. Student idea will be pitched with criteria such as product development, service development. Students will be required to participate in events or mentoring sessions organized by SPTBI.

1. Department wise Registration process: Fetch Data from the students related to product idea
  - a. Student Name and UCID
  - b. Student Dept
  - c. Student Email id and Phone no.
  - d. Idea Title
  - e. Idea Description
  - f. Idea Domain
  - g. Mentor Name (Faculty Name)
  - h. Mentor Dept
2. Selection of ideas process: Based on following parameter (Per dept 2 ideas)
  1. Idea ID
  2. Sustainability
  3. Applicability
  4. Development
  5. Plagiarism
3. Product mentoring process:
  1. Idea Id
  2. weekly progress report
4. report Generation
  1. Choose the type (year, dept, program)
  2. Generate Excel Sheet of the Statistics (year, dept, program)
  3. Analyzing the data and creating visualizations for understanding the static and growth percentage compared to past data

## **g. Patent-IPR**



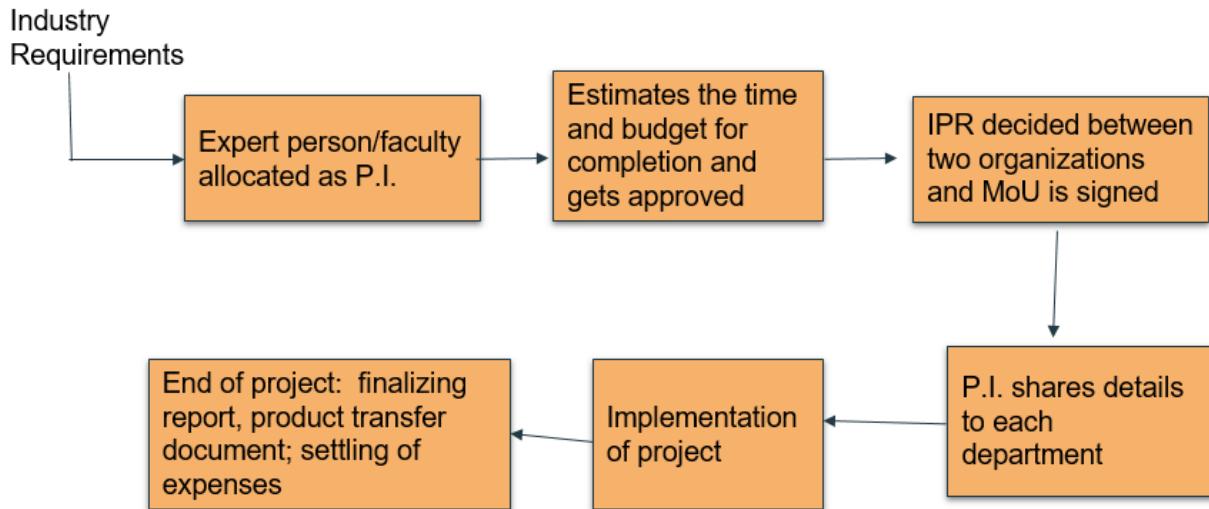
Here onwards Patent is part of the academic evaluation process for selected top ranked groups. Sem 6 will include a parameter “is it patentable” for 10 marks. Eligible top scored students will have the option to publish a patent rather than research paper. Selected students will undergo special training and mentoring sessions for registration of patents.

Patent related information will be collected at institute level. Sponsored patent and non-sponsored patent information will be collected. The report will be generated to apply, grant and publish patents.

1. Registration of Patents from student/ faculty (Top ranked groups from Mini Project evaluation phase I - Sem 6)
  1. Student / Faculty Name
  2. Student ID
  3. Student/Faculty Dept
  4. Patent Title
  5. Patent Domain
  6. All patent related data as per standard format
2. Patent mentoring and performance evaluation process (Continuous process from sem 6 to sem7)
  1. Evaluation of the patent filled data as per the standard format
  2. project date completed
  3. Applicability of patent
  4. Permission to submit the patent(yes/No)
3. Application of patent (Sem 7)
  - a. All collected idea submitted to IPR office
  - b. final patent id
4. Status monitoring for patent (Sem 7)
  - a. Final Patent Id
  - b. Status of patent

5. Report generation
  1. Choose the type (year, dept, program)
  2. Generate Excel Sheet of the Statistics based on (year, dept, program)
  3. Analyzing the data and creating visualizations for understanding the static and growth percentage compared to past data

## **h. Consultancy**



MoU signed with industry

Cat-1: Consultancy Projects being executed externally without any SPIT Lab Assistance (Off-Campus)

Cat-2: Consultancy Projects being executed internally on-campus with SPIT Lab Assistance and assistance of human resource like college-staff, student-interns and special-recruits (On-Campus)

1. The requirement originates from the industry/other organizations.
2. The faculty is expected to estimate the time and cost required to accomplish the task.
3. All consultancy proposals must be sent under signature of the PI to Dean R&D for endorsement and approval by the Principal of SPIT.
4. IPR related issues are agreed between the PI and the funding agency and should be cleared by the Principal.
5. Signing MoU/agreement
6. Assigning unique internal number to the project
7. Faculty shares the outline of the project to the respective department.
8. System should have provision to update the MoU signed with Industry

9. System should have provision to upload the expenditure details
10. After the end of project: (a)Preparation of final financial report and technical report; (b) transfer letter of consumables & non-consumables

## **i. PDC – Product Development Center**

- To convert project to prototype for commercialization
- To develop and test hardware/Software products
- To provide technology support for creative product development
- To develop skills required for end to end product development
- To offer a platform to Alumni, students and faculties for converting their ideas into marketable products

### **Services by PDC**

- (1) Technology support for Marketable product development
- (2) Mentorship for competitive product development
- (3) Infrastructure support and guidance for students group awarded by industry
- (4) Undertake product development jointly with Alumni & industry experts

## **6.Budget**

Sr. No	Activities
1	Faculty Development Program
	a) IIT PG credit Courses / Online certificate courses like Coursera can also be considered if certificate is obtained
	b) IIT/NIT DEP Summer/Winter Courses
2	Faculty Publications
3	Patents & Copyrights
	a) Patents
	b) Copy rights
4	Short term courses/workshops
5	Skill Development (Non teaching and Teaching)
6	Students Publications & R&D
7	Promotion of Research and Innovation for Undergraduate Students (PRIUS)
8	R&D center activities: Expert committee expenditure, Awards, Colloquium, Visits
9	National & International Collaborative research

## **7. Outcomes**

Following are the outcomes of R&D initiatives.

**a. Annual Report**

Executive committee will prepare the annual report at the end of Academic Year based on R&D activities conducted the year. Activity report for measurable outcomes

**b. Faculty Contribution**

The Faculty Research committee will prepare the contribution report along with assessment and analysis at the end of Academic Year based on faculty contribution done in the year.

**c. Students Contribution**

The Students Research committee will prepare the contribution report along with assessment and analysis at the end of Academic Year based on faculty contribution done in the year.

**d. Publications**

Executive committee in association with the Faculty Research committee and Students Research committee will prepare the list of publications at the end of Academic Year based on faculty contribution and student's contribution done in the year.

The list will be given to the Library for display on the website.

**e. Revenue Generation**

Generating the revenue through software and hardware development, patents and value added courses.

(Soft and hard copies will be maintained)

## **8.R&D Policies and Regulations at S.P.I.T.**

### **Consultancy Projects**

Requests for consultancy services come to the Institute due to a variety of factors, such as (i) the professional status, reputation, and, expertise in niche areas, associated with specific individual faculty members (ii) and the Institutional reputation. The *roles* of the individual and the Institution are complementary and most often value addition arises from this. The individual provides the intellectual inputs and skills and harnesses his expertise and experience towards meeting the client's requirements. The Institution, on the other hand, provides a diverse range of infrastructural facilities and services which facilitate consultancy and related activities. The effective costs of such facilities and services, reckoned in terms of major initial investments, periodic up gradation etc. cannot be underestimated.

More importantly, the Institutional reputation for excellence, expertise and ethical practices plays a substantial role in attracting consultancy opportunities. Although the roles of the individuals and the institution are closely intertwined, it needs to be emphasized that the Institution adds substantially to the stature of the individuals.

Finally, as all consultancy activity is to be channelled through the Institution and the Institution assumes some indirect responsibility for completion of the assignments to the satisfaction of the clients. Consequently the Institution has to necessarily look forward to a reasonable share of the revenues. At S.P.I.T. we envisage following categories of consultancy projects:

#### **Category I:**

- A consultancy is requested by an agency (client) from a particular Professor · The assignment to be carried out at client site
- No infrastructural requirement from institute for the assignment
- Consultant professor will be allowed to visit client site for completion of assignment for 52 days in a year not more than one day per week during running semester.

#### **Category II:**

- A consultancy is requested by an agency (client) from a particular Professor · The assignment to be carried out at Institute
- Institute infrastructural required for the assignment

#### **Category III:**

- Consultancy is requested by an agency (client) from Institute
- Institute assigns a consultant to complete the assignment
- Institute infrastructural required for the assignment

Consultant team will be allowed to visit client site for completion of assignment for 52 days in a year not more than one day per week during running semester.

## **Income Sharing Proposal**

(All the payment to be made to Institute and institute manages the sharing)

### **Category I**

Total Income Less Service Tax = A

Less Other expenditure with prior approval maximum up 10% of A = B

Institute Share = 30% of B

Consultant's Share = 70% of B

### **Category II**

Total Income Less Service Tax = A

Overhead to Institute = 20% of A

less other expenditure with prior approval maximum up to 10% of A = B

Institute Share = 50% of B

Consultant's Share = 50% of B

### **Category III**

Total Income Less Service Tax = A

Overhead to Institute = 20% of A

less other expenditure with prior approval maximum up to 10% of A = B

Institute Share = 70% of B

Consultant's Share = 30% of B

## **Policy for Qualification Improvement of the Faculty**

1. Sponsored study leave under all categories (including QIP) for M.E. / Ph.D. has been discontinued from the year 2013-2014. However, faculty can avail study leave of six months during their M.E. / Ph.D. period subject to signing of the bond prescribed for the same.
2. Motivating faculty to pursue PhD would be taken up with the new Board of Governance (BoG) under autonomy.

## **Policy for Training Program/Seminar/Workshops/FDP**

Proposed Scheme for disbursement of revenue generated by training programme/ short term courses.

## **Training Programs**

1. Faculty members can conduct value added training program within the institute or at client site
2. All such training programs will be conducted before / after the institute working hours.
3. Trainer team will be allowed to visit the client site for completion of assignment for 52 days in a year, not more than one day per week during the running semester.

## **Income Sharing Proposal**

Total Income Less Service Tax = A

Less other expenditure with prior approval maximum up to 10% of A = B Institute Share = 50% of B

Trainer's Team share= 50% of B = C

Training Team Share :

Sr. No.	Team Member Title	% Share
1	Coordinator	10% of C
	Trainer	70 % of C
2	Lab Assistant	7 % of C
3	Class IV	3 % of C
4	Accounts	5 % of C
5	Principal	5 % of C

## **Policy regarding sponsorship for International Conferences**

Recognizing the significance and importance of research work and its publication in peer reviewed journals both, at international and national levels, norms sponsorship for attending conferences abroad are being amended as under. The faculty member seeking sponsorship should also make efforts to get sponsorship from other bodies which offer sponsorship eg. UGC, AICTE etc. In view of the above three slots have been defined as under.

### **Slot 1:**

Once a faculty member publishes a paper in a peer reviewed international journal, he/she will be eligible for a slot as defined below. He/She may utilize the sponsorship within a period of two years from the date of publication of the international journal paper.

Sponsorship will be under following heads:-

- Registration Fees
- Visa fee

- Conveyance - Economy fare by air
- Conveyance from residence to airport, int'l airport to hotel and similarly return journey. · Up to US \$ 80 per day (towards lodging and boarding - on days of the conference only) to be reimbursed on actuals.
- The paper should be presented at an International conference organized by a Professional body.
- The research work should not reflect the work leading to M.E., Ph. D. for which the faculty member was sponsored.
- The work may reflect research work for which the faculty member was guiding ME, Ph.D. dissertation work.
- The total expenses reimbursable would be **restricted to Rs.1,10,000** which would be inclusive of grants from other sources.

## **Slot 2**

Once a faculty member publishes a paper in a peer reviewed national journal, he/she will be eligible for Sponsorship to the extent of 75% of the total expenses under the following heads. He/She may utilize the sponsorship within a period of two years from the date of publication of the journal paper (national level).

- o Registration Fees
- o Visa fee
- o Conveyance - Economy fare by air
- o Conveyance from residence to airport int'l airport to hotel and on journey on return. o Expensed toward stay up to US \$ 80 per day (towards lodging and boarding) to be reimbursed on actuals.
- o The paper should be presented at an International conference organized by a Professional body.
- o The research work should not reflect the work leading to ME, Ph.D for which the faculty member was sponsored.
- o The work may reflect research work for which the faculty member was guiding ME, Ph.D. dissertation work.
- o The total expenses reimbursable would be **restricted to Rs.75,000** which would be inclusive of grants from other sources.

## **Slot 3:**

If a faculty member does not qualify in slot 1 or 2 he/she may utilize sponsorship under this slot. The sponsorship may be utilized once in two years. Sponsorship will be under the following heads.

- Registration Fees

- Visa fee
- Conveyance - Economy fare by air
- Conveyance from residence to airport int'l airport to hotel and on journey on return.
- Expensed towards stay up to US \$ 80 per day (towards lodging and boarding) to be reimbursed on actuals.
- The paper should be presented at an International conference organized by a Professional body.
- The research work should not reflect the work leading to ME, Ph.D for which the faculty member was sponsored.
- The work may reflect research work for which the faculty member was guiding ME, Ph.D. dissertation work.
- The total expenses reimbursable would be **restricted to Rs.55,000 (or Rs.28000 per year)** which would be inclusive of grants from other sources.

#### **Policy for faculty receiving Slot 3 sponsorship**

- The faculty member should after returning from the conference give a presentation on his/her topic and about the visit in a faculty meeting.
- In addition to the above mentioned sponsorship a faculty member is entitled for reimbursement for a national conference conducted by a professional body as per govt. norms every year.
- A faculty member would also be entitled for sponsorship to a seminar/program of special interest to the department / college once in two years. The maximum reimbursement on different heads would be restricted to Rs.10,000.(or Rs.5,000 per year)
- To get sponsorship for international conferences faculty members should also apply to other funding agencies like AICTE/UGC/DST before seeking sponsorship from college.
- The faculty member should, before proceeding to the conference, give a complete schedule of stay abroad, clearly indicating dates of the conference travel plan etc.
- A committee will review the status of conference where the faculty is sponsored, relevance to the subject etc.

## **9. Terminology, Regulations for Research & Development R&D**

### **1. Scope**

These regulations shall be called “R&D Regulation” hereafter & shall be applicable to all activities stated therein. These rules supersede all existing R&D rules.

### **2. Terminology**

- **Sponsored Research Project:** Time and cost bound projects sponsored by Government, public,

private, national / international agencies and autonomous bodies. The project cost including cost towards contractual manpower, deputed manpower, equipment, consumables and supporting services of the Institute are borne by the sponsor.

- **Sponsor:** The organization that Sponsored the Project to the Institute and gives necessary financial support for successful completion of the project in time.
- **Principal Investigator / Investigator in charge (PI):** A faculty member of the Institute with necessary expertise and competence to conduct a Sponsored Research / Industrial Consultancy work. Normally, the faculty member who submits the project proposal and discusses / negotiates it with the sponsor and is instrumental in getting the project is the Principal Investigator. For administrative reasons, the Principal Investigator of some projects may be appointed by the Dean (R&D) in consultation with concerned HoD if the original Principal Investigator leaves or his/her service are not available to the project for any other reason.
- **Co-Investigator (Co-PI):** A faculty member co-opted by the Principal Investigator to work jointly with him. If the PI leaves the Institute or goes on leaves, a Co-Investigator assumes the power of the PI with the approval of the Dean (R&D).
- **Consultancy Project:** Time bound specific problem solving projects sponsored by funding agencies with payment of consultancy fee / honorarium to the Investigator(s) in addition to all other expenses.
- **Individual Research and Development Grant Fellowship:** Research and Development grants-in-aid offered to individual faculty, research fellows from the sponsors and executed using Institute facilities with financial support from the granting agencies towards equipment, contingency, overhead, fellowship etc.
- **Dean R&D:** The Dean (R&D) has full responsibility for project administration including · Acceptance of sponsored research and consultancy projects from the sponsor on behalf of the Institute;
- The recruitment, extension, assessment, termination and invoking disciplinary procedure against project staff and
- The full financial power related to all projects covered under the R&D Regulations.

### **3. Manpower**

- All project appointments will be contractual and on the basis of consolidated monthly emoluments.
- Automatic transfer from one project to another either on completion or midway shall not normally be permitted. However, in special cases such requests with justification by the PI may be approved by the Dean.
- The tenure of contractual appointment of a project staff will be for the duration of the project and less than five years.
- The total period of continuous contractual employment in the project(s) must be less than five years.

- A project employee shall execute a contract Agreement on non-judicial stamp paper of value at least Rs. 100/- at the time of joining with the explicit provision that contract may be terminated by either side (Staff or R&D Unit) by giving one month's notice or one month's consolidated emoluments in lieu of the notice.
- Selection of JRF / SRF / RA shall normally be made as per the guidelines provided by the sponsoring agency and with the approval of the Dean (R&D).
- All appointment letters shall be issued under signature of Assistant Registrar (R&D). · The PIs shall consider prevailing emoluments package, general qualifications and experience for staff while preparing project proposals.
- The Selection Committee for the recruitment of project staff for each project will be constituted as follows:
  - A. The short listing of the applications of project staff is to be done by the PI and sent to Dean (R&D) for approval.
  - B. Selection Committee for Project staff recruitment:
    - i. Dean (R&D) or his nominee - Chairman
    - ii. Head of the Department - Member
    - iii. Principal Investigator (PI) - Member
    - iv. Two experts (to be nominated by the PI) - Member

The Committee is to be approved by the Dean (R&D). The Dean (R&D) shall fix, on the recommendations of the selection committee, the monthly consolidated emolument and the duration of the contractual appointment. The contract is to be renewed every year on recommendation of the PI.

- On completion of each year of service during the contract period, extension in tenure and suitable enhancement of monthly emoluments, if applicable may be considered by the Dean (R&D) on recommendations of the PI of the concerned School. Application may be made in the prescribed format for approval of the Dean.
- In case of urgent requirement, on recommendation of the PI short term job contracts for 89 days may be considered by the Dean (R&D).
- All project staff shall work for the project only unless agreed to otherwise by the Dean (R&D).
- PIs shall be the sanctioning and controlling authority for all types of leaves with respect to contractual project staff.
- Conduct Rules: project employees shall
  - Follow general code of conduct as approved by Dean (R&D).
  - Maintain secrecy of the research findings / technical information and shall not get involved in unauthorized communication of any official document or information. · Dean (R&D) may, at his discretion, constitute committee(s) to conduct disciplinary proceedings, if necessary against project employees. On the basis of the report, suitable disciplinary action may be initiated and punishment will be imposed by the Dean (R&D).
  - Project employees may be allowed to register for the ME/Ph.D programme if he / she fulfils all

the requirements prescribed by the University and Institute.

#### **4. Finance and accounts**

- A separate book of accounts shall be maintained for each project. R&D Unit shall be responsible for submission of statements of accounts as and when required by the sponsors. Govt. audited statements of accounts at the end of each financial year shall be provided, if required by the sponsor.
- In general, for sponsored research projects, 20% of the total project cost shall be charged towards Institutional charges (overheads) for utilizing the infrastructural and other facilities of the Institute. However, depending on the norms of the funding agency and project budget, verification can be allowed by the Dean in consultation with the PI.
- In the event, any project utilizing the Institute's manpower and other supporting facilities beyond office hours, the expenses towards the same shall be charged to the respective project. For this purpose, on the recommendations of the PI, the Dean (R&D) may approve suitable honorarium for the supporting staff of the Institute.
- PIs shall arrange to maintain Procurement-cum-purchase Registers and Stock / Asset. These shall be verified by Govt. Auditors and R&D Unit as and when required. All purchase proposals in line with the purchase procedures of the Institute, shall be processed by the R&D Unit.
- Accounts for sponsored projects shall be maintained under five broad budget heads. They are: Salary, Equipment, Contingency & Consumables, Travel and Institutional Charges (Overhead). Minor adjustment in approved budget heads may be permitted by the Dean (R&D) without violating the norms of the funding agency significantly.
- Cash advance shall be drawn in the name of PI/ Co-PI of the project.
- All expenditures shall normally be made within the proposed date of completion of the project. Exceptions may be permitted with the consent of the sponsor.
- PIs shall normally be allowed to draw another advance only after adjusting the previous one taken by them unless otherwise agreed by the Dean (R&D).
- In the event of non-availability of funds in a project, excess expenditure (if any) due to unforeseen reasons, the Sponsoring Agency will be approached to sanction additional fund or to permit the expenditure from another project of the same sponsor.
- TA and DA Rules: The Government of India TA & DA rules will be applicable to the PIs and project employees for all sponsored research / consultancy projects. However, there could be some relaxation in the TA & DA rules for the PIs and project staff, subject to the availability of funds and with prior approval of the Dean (R&D).

#### **5. Intellectual Property Rights:**

- Unless otherwise agreed with the Sponsor in the project agreement, Intellectual property Rights for any discovery or invention originating from the Sponsored Research and Consultancy Project shall jointly rest with the Institute, Investigator (s) and the Sponsoring Agency unless the

Sponsoring Agency authorizes the Institute in writing to have the exclusive right. Patent / copyright application before the Registrar / Controller of Patents shall be filed by the R&D Unit on the basis of the recommendations made by the patent / Copyright Committee.

- For the effective protection of IPR, it is necessary that the PIs should maintain a register that gives the details of the work done and salient findings on a daily / weekly basis. This register should be signed by the PI and by at least one other faculty / project employee as witness to the result.
- For the copyright protection of software / technology, registration of the software at the Department level shall be made and properly documented. The list shall be centrally made available to the R&D Unit.

#### **6. Technology transfer:**

The PIs shall not independently transfer technology either on exclusive or non-exclusive basis to any party without the consent of the IPR owners. The terms and conditions for each of such technology transfers shall be worked out on a case to case basis with approval of the Dean (R&D)/ Principal.

#### **7. Retainer ship (Proposed):**

With the permission of the Dean (R&D) / Director, the faculty members of the Institute can accept retainership of the reputed organizations. The fees thus earned shall be shared by the Institute and the Individual in the ratio of 3: 7 only after payment of service tax, etc as applicable. For this purpose, the faculty concerned may utilize one day per week of four days in a month during an academic year with the specific approval of the Dean (R&D) provided alternate arrangements for classes and other commitments are made by faculty members. This applies to research and consultancy projects too.

#### **8. Software marketing (Proposed):**

All software duly copyrighted may be marketed and the sale proceeds thus accrued shall be shared between the Institute and the software consultant(s) as per Industrial Consultancy rules for the first copy and in the ratio (3:7) for the subsequent copies after payment of applicable taxes like service tax. If the subsequent copies sales involve training and their supporting services, the rules of consultancy (with no contribution towards use of Institute computing facilities) shall be applicable. If the marketing rights are transferred, the terms and conditions shall be determined as per Technology Transfer Rules.

#### **9. Duties and responsibilities of the Principal Investigators (PIs):**

- Sponsored Research and Consultancy projects shall be undertaken only with the prior approval of the Dean (R&D). All research project proposals are to be submitted to the R&D Unit for endorsement of the Dean (R&D) before onward transmission to the funding agency. In case of on-line submission, the PI needs to submit a copy of the proposal to the R&D Unit for endorsement of the Dean before on-line submission.
- It shall be the responsibility of the PI to get the project work completed satisfactorily within the sanctioned grant and duration.
- The PI shall ensure that the head-wise expenditure does not exceed the budgetary allocation. For effective control, periodic (or as and when required) expenditure details shall be made available to PIs by the R & D Unit.
- The PI shall maintain the details of equipment purchased out of project funds separately for each project. He / She shall send a copy of it to Dean (R&D) for placing the same before the Govt. Audit for verification.
- The PIs shall be responsible for submission of periodical and / or final technical report (s) of the project work as may be required by the sponsoring agency. He / She shall also send a copy of the final technical report to Dean (R&D).
- The PI shall write to the sponsor for timely release of funds with a copy to the Dean (R&D) for follow up. R&D Unit will provide the un-audited /audited statement of accounts to PIs for forwarding the same to the sponsor.
- The PIs shall sanction / control the leaves due to the contractual employees working in their projects under intimation to the R & D Unit.

#### **10. Financial benefits to PIs / Co-PIs and project staff:**

- Within the framework of a sponsored project, PIs shall be permitted to have consultancy fee / honorarium, if the sponsor so approves. The consultancy fee / honorarium thus received shall be shared between the PIs and the Institute in the ratio approved by the Institute.
- PIs shall be allowed to work full time during the vacation in the projects and get suitable honorarium as approved by the Institute (in lieu of vacation) for such period, provided the funds under salary provided by the funding agency so permits.
- Depending on availability of funds under Travel head and with the approval of the Dean (R&D), expenses (TA, DA, Registration Fee, etc.) for presenting papers in National Conferences in fields relevant to the project, shall be given to PIs/ Co-PIs from the project fund provided such visits are approved by the Dean.
- On recommendations of PIs, contractual project staff and students working in projects may be permitted with approval of the Dean (R&D) to present papers in national Conferences with TA, DA and Registration Fee support provided the funds are available under Travel head of the project.
- The PIs shall prepare project proposals keeping
  - o the prevailing scholarship/ consolidated salary,
  - o General qualifications and experience for staff required,

o rules of the R&D in mind. All such proposal requires approval by the Dean (R&D).

#### **11. Exception clause:**

These R&D Regulations shall normally be applicable to all research projects, consultancies, testing services retainership, software marketing, technology transfer, intellectual property rights. Any exception / deviation to these rules may be considered by the Principal / Competent Authority for approval depending on the merits of the case.

#### **12. Faculty Development Fund (FDF) & Department Development Fund (DDF) (Proposed):**

A portion of the Institutional overhead taken from the research and consultancy projects will be available to the PIs as Faculty Development Fund (FDF) and to the Departments/ Centers as Dept. Development Fund (DDF) to meet the expenses related to professional development as given below:

- a) 10% of the Overhead charges is to be kept under the Faculty Development Fund (FDF) for the Project Investigator (PI) and the Co-project Investigator (Co-PIs). The percent distribution among the PI and Co-PI(s) will be approved by the Dean on the recommendation of the PI.
- b) 15% of the Overhead charges is to be kept under the Department Development Fund (DDF).

The PI/ Co-PI is allowed to use the FDF for procurement of Laptop, Mobile Phone and Computer Accessories etc. Besides the PI/ Co-PI may also meet the expenses of official foreign travel partially from this fund, if R&D budget is inadequate and for other similar purposes.

#### **13. Procurement Procedures:**

All the purchases related to sponsored projects should be made as per the approved purchase guidelines of the Institute. However, some deviation in the purchase rules of the Institute could be made, to make the R&D related purchases faster and flexible, with the approval of the competent authority.

#### **14. Prescribed formats:**

Forms related to various activities of the R&D will be available with the R&D unit and in the designated website.

#### **15. Management of Centres of Excellence:**

The Centres of excellence funded by various funding agencies will operate as independent R&D cells in the institute. The Chairmen/ Heads of the centres, appointed by the competent authority will have financial and academic administration responsibility as approved by the competent authority. However, financial management of these centres will be the responsibility of the R&D Unit.



## 10. Achievements

### Outcomes of our processes upto 2019-20

#### PUBLICATIONS 634

Conference	562
Journal	72
International	602
National	32
(by students	546
Faculty 88)	

#### CONSULTANCY

##### FUNDED PROJECTS• 2017–20

BioMS, Starlyte, Industrial Signal Simulator, Aquacare, High power battery charger, Universalsolar pump controller, Controller for inducing casting machine, Development of Software applications to maintain service calls, Riddhi Heatron, Suyog, Zeuva Automotive Private Limited, General Auto Electronic Corporation, DigitalDojo, India Times Daily (MCA) SGGS Institute of Engineering and Technology, (SGGS), Nanded India Times Daily, Smartly built

#### PATENTS 82

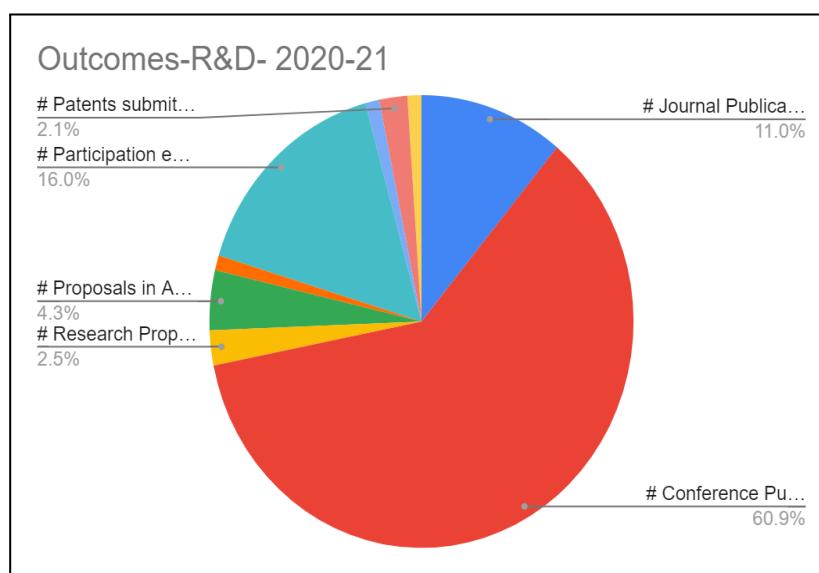
2015	12
2016	8
2017	10
2018	2
2019	50

#### COMPETITIONS 133

ELECTRONICS & TELECOMMUNICATIONS	•71
ELECTRONICS CS	•37
INFORMATION TECHNOLOGY	•3
COMPUTER SCIENCE	•18
MASTER OF COMPUTER APPLICATIONS	•4
TEXAS INSTRUMENTS •HACKTHON • MITSHUBSHI• E-YANTRA	
ACCS •IEEE- XTREME...	

## Outcomes of our processes for 2020-21

Processes to deliver an outcome	Outcomes	Count
Research Paper Reimbursement, Technical Paper Presentation, Project Exhibition, workshops to promote research paper writing and formulation	# Journal Publications	31
	# Conference Publications	171
	# Research Proposals submitted	7
	# Proposals in Avishkar	12
	# Workshops organised	3
	# Participation entries in Research Colloquium of ICCICT 2021	45
Project Exhibition, IEDC, PDC	# Competitions Won by students	3
	# Patents submitted	6
	# Consultancy Projects	3



Outcomes -2020-21



**Bharatiya Vidya Bhavan's  
SARDAR PATEL INSTITUTE OF TECHNOLOGY**

Munshi Nagar, Andheri (W), Mumbai – 400 058.  
(Autonomous Institute Affiliated to University of Mumbai)

**Links to the previous years policies**

Sr. No	Description
1	Link for 2020-21 policy: <a href="#">Policy for 2020-21</a>
2	Link for 2019-20 policy: <a href="#">Policy for 2019-20</a>



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14<sup>th</sup> Governing Council meeting held on 13<sup>th</sup> October ' 2014.

Income / profit sharing Policy of consultancy income.

Scheme related to percentage of income /profit sharing in revenue generated by faculty through consultation approved (Annexure - I).

P.W.

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Bhavans A.C.C. Campus  
Munshi Nagar, Andheri (West),  
Mumbai - 400 058.

Principal  
Bharatiya Vidya Bhavan's  
Sardar Patel Institute of Technology  
Munshi Nagar, Andheri (W),  
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Bharatiya Vidya Bhavan's  
Sardar Patel Institute of Technology

Proposed Policy and Rules for Consultancy projects and Training programs Income Sharing

**1. Consultancy Projects**

Requests for consultancy services come to the Institute due to a variety of factors, such as (i) the professional status, reputation, and, expertise in niche areas associated with specific individual faculty members (ii) and the Institutional reputation. The *roles* of the individual and the Institution are complementary and most often value addition arises from this. The individual provides the intellectual inputs and skills and harnesses his expertise and experience towards meeting the client's requirements. The Institution, on the other hand, provides a diverse range of infrastructural facilities and services which facilitate consultancy and related activities. The effective costs of such facilities and services, reckoned in terms of major initial investments, periodic up gradation etc. cannot be underestimated.

More importantly, the Institutional reputation for excellence, expertise and ethical practices plays a substantial role in attracting consultancy opportunities. Although the roles of the individuals and the institution are closely intertwined, it needs to be emphasized that the Institution adds substantially to the stature of the individuals.

Finally, as all consultancy activity is to be channeled through the Institution and the Institution assumes some indirect responsibility for completion of the assignments to the satisfaction of the clients. Consequently the Institution has to necessarily look forward to a reasonable share of the revenues.

At S.P.I.T. We envisage following categories of consultancy projects:

**1.1 Category I :**

- A consultancy is requested by an agency( client) from a particular Professor
- The assignment to be carried out at client site
- No infrastructural requirement from institute for the assignment
- Consultant professor will be allowed to visit client site for completion of assignment for 52 days in a year not more than one day per week during running semester.

**1.2 Category II**

- A consultancy is requested by an agency( client) from a particular Professor
- The assignment to be carried out at Institute
- Institute's resources / infrastructural will be used for the assignment

**1.3 Category III**

- A consultancy is requested by an agency( client) from a particular Professor
- The assignment to be carried out at Institute
- Institute's resources / infrastructural will be used for the assignment
- Consultant professor will be allowed to visit client site for completion of assignment for 52 days in a year not more than one day per week during running semester.



*Sekhvalij*  
Principal

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Mumbai-400 058**

### Income Sharing proposal

(All the payment to be made to Institute and institute manages the sharing)

#### Category I

Taoal Income - Less Service Tax = A

Less Other expenditure with prior approval maximum up to 10% of A = B

Institute Share = 30% of B

Consultant's Share = 70% of B

#### Category II

Taoal Income - Less Service Tax = A

Less Overhead to Institute = 20% of A = C

less other expenditure with prior approval maximum up to 10% of C = B

Institute Share = 50% of B

Consultant's Share = 50% of B

#### Category III

Taoal Income - Less Service Tax = A

Less Overhead to Institute = 20% of A = C

less other expenditure with prior approval maximum up to 10% of C = B

Institute Share = 70% of B

Consultant's Share = 30% of B

Note: For Category I and II sharing of Consultant's share ( If it is a team who have worked ) will be decided by a committee consisting of

1. Main Consultant
2. Principal S.P.I.T.
3. Registrar S.P.I.T.



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## 2. Training Programs

- \* Faculty members can conduct value added training program within the institute or at client site
- \* All such training programmes will be conducted before / after the institute working hours
- \* Trainer team will be allowed to visit client site for completion of assignment for 52 days in a year not more than one day per week during running semester.

udget  
(cH)

### Income Sharing proposal

(All the payment to be made to Institute and institute manages the sharing)

Total Income Less Service Tax = A

Less other expenditure with prior approval maximum up to 10% of A = B

Institute Share = 50% of B

Trainer's Team share= 50% of B = C

### Training Team Share :

Sr. No.	Team Member Title	% Share
1	Coordinator	10% of C
2	Trainer/s	70 % of C
3	Lab Assistant	7 % of C
4	Class IV	3 % of C
5	Accounts	5 % of C
6	Principal	5 % of C

P.H.L  
Principal



Principal  
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## General Service Policy at Sardar Patel Institute of Technology

### **Monitory Benefit**

- **Salary**

Salary shall be paid as per the 6<sup>th</sup> Pay Commission recommendations adopted by the Governing Council of S.P.I.T.

- **Provident Fund**

Provident Fund under Employees Provident Fund Act, 1952 shall be applicable to all teaching and non-teaching staff members in the institute. The statutory deduction as per the act has been revised with approval from Governing Council and implemented in S.P.I.T. from March'09, to be frozen at the rate of 12% of March'2009 salary as per Vth Pay Commission.

- **Gratuity**

Teaching and Non Teaching staff members completing continuous service of minimum 5 years in the institute shall be eligible for Gratuity under "The Gratuity Act, 1972".

- **Medical Insurance Policy**

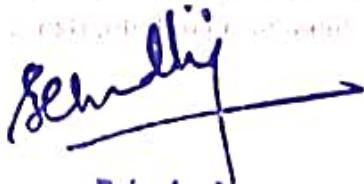
Permanent staff members, Teaching and Non-Teaching shall be provided with medical insurance policy of Rs. 150000/- (Rupees One Lac Fifty Thousand only), which includes medical cover of staff and his family members (spouse, kids and his / her parents). This policy covers charges of hospitalization and medicine expenses incurred during hospitalization. Benefit is extended to permanent staff after completing 1 year of service.

- **Leave Travelling Concession**

Permanent staff member shall be eligible for leave travel concession for visiting his/her native place once in two years or for Maharashtra Darshan (any one place in Maharashtra) once in four years. The expenses incurred for travelling to the above places shall be reimbursed by the college on production of tickets/proof of travel details etc. Benefit is extended to permanent staff after completing probation period of 2 years.

- **Book Allowance**

Teaching staff members shall be eligible for book allowance up to a maximum of Rs. 2500/- for higher studies to their respective permanent posts upto a maximum of three years. Non-teaching staff shall be eligible for book allowance up to a maximum of Rs. 1500/- for higher studies to their respective permanent posts upto a maximum of three years.

  
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Short Term Course and Skill Development

Permanent Teaching staff shall be eligible for reimbursement of registration fees for any up gradation/technical courses attended by them ( FDP) which can enhance their knowledge, subject to ceiling of Rs. 5000/-, once in every financial year.

In addition to the above, Permanent staff, Teaching and Non-Teaching shall be eligible for reimbursement of course fees for enhancing their skill, subject to ceiling of Rs. 5000/-, once in every financial year.

Paper Publication

Norms for sponsorship for presenting papers at conferences in India and abroad

Recognizing the significance and importance of research work and its publication in peer reviewed journals both, at international and national levels, norms sponsorship for attending conferences abroad are being amended as under. The faculty member seeking sponsorship should also make efforts to get sponsorship from other bodies which offer sponsorship e.g. UGC, AICTE etc.

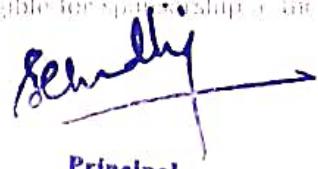
1. In view of the above, three slots have been defined as under:

**Slot 1:** When a faculty member publishes a paper in a peer reviewed International Journal (of the level of IEEE Transactions), he / she shall be eligible for slot as defined below. He / she may utilize the sponsorship within a period of two years from the date of publication of the International Journal Paper.

Sponsorship shall be under following head:

- Registration Fee
- Visa Fee
- Conveyance - Economy fare by air
- Conveyance from residence to airport, int'l airport to hotel and similarly return journey.
- Up to Us \$ 80 per day (towards lodging and boarding on days of the conference only) to be reimbursed on actual.
- The paper should be presented at an International conference organized by a professional body.
- The research work should not reflect the work leading to ME, Ph.D. for which the faculty member was sponsored.
- The work may reflect research work for which the faculty member was guiding ME, Ph.D. dissertation work.
- The total expenses reimbursable would be restricted to Rs. 1,10,000/- (Rs. One Lakh and Ten Thousand only) which would be inclusive of grants from other sources.

**Slot 2:** When a faculty member publishes a paper in a peer reviewed National Journal, he / she shall be eligible for sponsorship upto a maximum of Rs. 10,000/- and expenses under the

  
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following heads not exceeding Rs. 75,000/- He / she may utilize the sponsorship within a period of two years from the date of publication of the Journal Paper (National level)

- Registration Fee

- Visa Fee

- Conveyance - Economy fare by air

- Conveyance - from residence to airport, int'l airport to hotel and on journey on return.

- Expenses toward stay up to US \$ 80 per day (towards lodging and boarding) to be reimbursed on actual.

The paper should be presented at an International Conference organized by a Professional body.

The research work should not reflect the work leading to ME, Ph.D. for which the faculty member was sponsored.

- The work may reflect research work for which the faculty member was guiding ME, Ph.D. dissertation work.

- The total expenses reimbursable would be restricted to Rs. 75000/- (Rs. Seventy Five Thousand only) which would be inclusive of grants from other sources.

**Slot 3:** If a faculty member does not qualify in slot 1 or 2 he / she may utilize sponsorship under this slot. The sponsorship may be utilized once in two years. Sponsorship will be under the following heads.

- Registration Fee

- Visa Fee

- Conveyance - Economy fare by air

- Conveyance - from residence to airport, int'l airport to hotel and on journey on return.

- Expenses toward stay up to US \$ 80 per day (towards lodging and boarding) to be reimbursed on actual.

- The paper should be presented at an International Conference organized by a Professional body.

- The research work should not reflect the work leading to ME, Ph.D. for which the faculty member was sponsored.

- The work may reflect research work for which the faculty member was guiding ME, Ph.D. dissertation work.

- The total expenses reimbursable would be restricted to Rs. 55000/- (Rs. Fifty Five Thousand only) which would be inclusive of grants from other sources.

2. The faculty member shall after returning from the conference give a presentation on his / her topic and about the visit in a faculty meeting.
3. To get sponsorship for International Conferences faculty member should also apply to other funding agencies like AICTE /UGC/DST before seeking sponsorship from college.
4. The faculty member should, before proceeding to the conference give a complete schedule of stay abroad, clearly indicating dates of the conference/travel plan etc.
- \* It is mandatory to view the details of conference where the faculty is sponsored, relevance in the subject etc.

  
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**Leave rules for employees of Sardar Patel Institute of Technology**

Teachers are governed by leave rules of the University of Mumbai and Non Teaching staff is governed by rules regarding service conditions with respect to Non Agricultural Universities Act i.e. "Standard Code".

**Applicability**

The provisions contained in these rules shall apply to all permanent/on probation employees of the Sardar Patel Institute of Technology, Mumbai.

**Right to leave**

- Leave cannot be claimed as a matter of right and the leave sanctioning authority may refuse or revoke leave of any kind.
- Leave sanctioning authority cannot alter the kind of leave due and applied for.
- Leave will not be granted to staff under suspension.

**Application for leave**

- Leave should always be applied for and sanctioned before it is taken, except in cases of emergency and for satisfactory reasons.

**Authority empowered to sanction Leave**

- Applications for leave shall be addressed to the Principal / Registrar / Head of Department.
- Leave may be sanctioned by the Principal or by a member of staff to whom the power has been delegated. Normally, the Registrar will regulate the leave accounts of the staff members (Faculty and Non-faculty).
- The Director may sanction leave of the Principal.

**Commencement and termination of leave**

- Leave ordinarily begins from the date on which leave as such is actually availed of and ends on the day preceding the date on which duty is resumed.
- Saturdays, Sundays and other Holidays or the vacation may be prefixed as well as suffixed to any leave, subject to any limit of absence on leave prescribed under each category of leave.

**Combination of leave**

- Except as otherwise provided any kind of leave under these provisions may be granted in combination with or in continuation of any other kind of leave, subject to any limits prescribed in such cases.

**Grant of leave beyond the date of retirement and in the event of resignation**

If leave shall be granted beyond the date of retirement or resignation, the staff must use prior written permission.

  
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- If any employee of the Institute resigns, he/she shall not be granted either prior or subsequent to his resignation, any leave due to his/her credit. Provided that the Principal may, in any case, grant leave to an employee prior to his/her resignation if, in the opinion of the Principal, the circumstances of the case justify such grant of leave.

**Conversion of one kind of leave into another kind**

- Leave of any kind taken earlier can be converted into leave of any other kind at a later date on an application within 30 days of joining duty after leave by the employee, and at the discretion of the leave sanctioning authority subject to adjustment of leave salary.

**Grant of Leave on medical grounds**

- An application for leave on medical grounds shall be accompanied by a medical certificate in prescribed form from such Medical Officer as may be prescribed or a Registered Medical Practitioner; defining as clearly as possible the nature and probable duration of illness.
- The authority competent to grant leave may, at its discretion, secure a second medical opinion by requesting a Medical Officer to have the applicant medically examined on the earliest possible date and the Employee concerned shall present himself for re-examination before the medical officer specified by the College.
- The grant of medical certificate under this rule does not in itself confer upon the Employee concerned any right to leave; but sanction of such leave can be at the discretion of the sanctioning authority.

**Rejoining duty before the expiry of leave**

- Except with the permission of the authority, who granted leave, no member of the staff on leave may return to duty before the expiry of the period of leave granted to him.

**Application for leave**

- Leave should always be applied for and sanctioned before it is taken, except in cases of emergency and for satisfactory reasons.

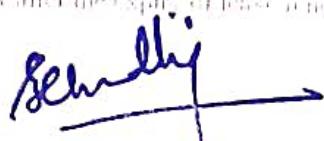
**Recall to duty before expiry of leave**

- In case an Employee is recalled to duty before the expiry of his leave, such recall to duty shall be treated as compulsory in all cases.

**Absence after expiry of leave**

- Unless the authority competent to grant leave extends the leave, an Employee who remains absent after the end of leave is entitled to no leave salary for the period of such absence and that period shall be debited against his leave account as though it were half pay leave, to the extent such leave is due, the period in excess of such leave due being treated as extraordinary leave.

(With absence from duty after the expiry of leave, a record in Employee's Table of Duty will be made)

  
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Following are the kinds of leave :-

1. Casual Leave :

- a) An employee is entitled to 8 days casual leave per year.
- b) Permission for casual leave shall ordinarily be obtained before the day on which casual leave is required. In exceptional circumstances where application of casual leave cannot be submitted before the leave begins, ex-post-facto sanction for casual leave shall be obtained by the employee.
- c) Mass casual leave shall not be treated as casual leave. It shall be treated as unauthorized absence and dealt with accordingly. The action to go on mass casual leave shall be treated as misconduct.
- d) The employee shall be entitled to not more than 7 days casual leave at a time. The same may be prefixed or suffixed with holidays or Sundays provided that the period of total absence does not exceed 7 days at a time. Any number of Sundays and / or Public holidays are permitted to be prefixed / or suffixed so also a holiday or a series of holidays are permitted to interpose between the period of casual leave. However, the total period of casual leave and holidays enjoyed in continuation at one time should not exceed seven days, save only in exceptional circumstances; it may be extended upto nine days.
- e) The casual leave cannot be combined with any other kind of leave except compensatory leave.
- f) Casual leave of half day can be granted to an employee.

2. Earned Leave:

- a) An employee who is not entitled to vacation shall be entitled to earned leave of 30 days in a year.
- b) Each employee's leave account shall be credited with earned leave in two installments of 15 days each on 1<sup>st</sup> January and 1<sup>st</sup> July of every calendar year.
- c) The leave at the credit of the employee at the close of the previous half year shall be carried forward to the next half year, subject to the condition that the leave so carried forward plus the credit for the half year do not exceed the maximum limit of 300 days.
- d) Provided that where the earned leave at the credit of the Employee as on the last day of December or June is 300 days or less but more than 285 days, the advance credit of 15 days earned leave on first day of January or July shall instead of being credited in leave account be kept separately and first adjusted against the earned leave that the employee takes during that half year and balance, if any, shall be credited to the leave account at the close of the half year, subject to the condition that balance of such earned leave plus leave already at credit do not exceed the maximum limit of 300 days.
- e) Vacation staff required to do any work during vacations will get Earned leave equal to one-third of the number of days on which he works on vacation subject to a maximum of 30 days in a year.
- f) The employee may not avail more than 180 days earned leave at a time. Such a sanction would be at the discretion of the management.

  
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- (g) The employee who retires on superannuation or who dies while in service, shall be entitled to the benefit of cash equivalent of unutilised earned leave standing to his/her credit on the date of retirement/death or the date when he resigns for any reason upto 300 days.
- (h) The employee who resigns from service shall be entitled to benefit of cash equivalent of unutilised earned leave standing to his/her credit on the date of such resignation.

**3. Leave on Half Pay:**

The employee including an employee who is entitled to vacation shall be entitled to leave on half pay to the extent of 20 days for every completed year of service. The leave so availed may be accumulated without any limitation. The employee shall not be entitled to leave on half pay during the first year of his/her service. The leave on half pay due may be granted to the employee either on medical ground or for private reasons. The leave requested on medical grounds shall have to be supported with the certificate from the Medical Authority.

**4. Commuted Leave:**

The employee may with the approval of Competent Authority, commute leave on half pay at his/her credit on medical grounds on the following conditions:

- (a) The commuted leave shall be debited to the account of leave on half pay at the rate of twice the number of days actually availed of.
- (b) No commuted leave shall be granted under this rule unless the authority competent to sanction leave is satisfied that there is reasonable prospect of the employee returning to duty on its expiry.
- (c) Where an employee who has been granted commuted leave resigns from service without returning to duty, the commuted leave shall be treated as half pay leave and the difference between the leave salary in respect of commuted leave and half pay leave shall be recovered.

**5. Maternity Leave:**

- (a) Maternity Leave may be granted to a permanent female staff with less than two surviving children and who has put in at least one year of continuous service, for a period of upto 180 days from the date of its commencement.
- (b) Maternity Leave may also be granted on full pay in cases of miscarriage including abortion, subject to the condition that the leave applied for does not exceed 45 days in entire service and the application for leave is supported by a medical certificate.
- (c) Maternity Leave shall not be debited to the leave account.
- (d) Maternity Leave may be combined with leave of any other kind except Casual Leave. Such a sanction would be at the discretion of the management.
- (e) During maternity leave, leave salary equal to last pay drawn is admissible.



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**6. Extra ordinary leave:**

- Extra ordinary leave (leave without pay and allowances) may be granted to an employee in special circumstances, when no other leave is admissible.
- The period of Extra ordinary leave shall not count for increment.

**7. Compensatory Leave:**

- Employee asked to work on Saturdays / Sundays / Public Holidays by the competent authority in writing will be entitled to compensatory leave for the same. Compensatory leave can prefixed or suffixed to any other leave i.e. Casual leave / Earned leave / Medical leave. At a time compensatory leave cannot be accumulated for more than 3 days. Compensatory leave has to be availed within the same calendar year (exception granted to staff required to work on Saturdays during the month of December and cannot avail leave immediately due to extensive workload can avail compensatory leave by the end of June of the next year).

**8. Half Pay to Earned Leave**

Half pay leave can be converted to Earned leave for vacation staff members subject to the following conditions:

- Converted earned leave can be availed only after the total earned leave to the credit of the employee is exhausted.
- It can be sanctioned on the following grounds:
  - On death of family member
  - On marriage of close blood relation
  - Board exams of son/daughter
  - Any other reason found suitable by authorities
- The maximum limit of availing converted earned leave should be 15 days at a time subject to credit of same in their leave account.
- Sanction of above leave is at the discretion of the authorities.

**9. Vacation**

Teachers and technical staff are entitled to vacation as per rules of University of Mumbai (presently 40 days during summer and 30 days during winter is admissible). Employee should be physically present either before proceeding on vacation or the day preceding the last day of vacation.

**10. Study Leave / Preparation Period**



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A teacher can be granted study leave at the discretion of the governing body of the college subject to a maximum of 6 months. The teacher who is granted study leave shall enter into an agreement / bond with the Institute for a period of at least 1 year.

\* Course work related to PWDI has to be completed by teachers in their vacation period.

No O/D leave will be granted for pre registration courses and career advancement courses and can be done by teachers during their vacation period.

Service Book is updated every half yearly i.e. half leave credited to the account on 1<sup>st</sup> January (for credit earned from July to December of earlier year) and 1<sup>st</sup> July (for credit earned from January to June of same year).

### • Procedure of Promotions

#### 1. Non Teaching staff

- Time bound (after completing 12 years)
  - Summary statement prepared for eligible staff
  - Screening committee meeting is scheduled
    - Principal
    - Management representative
  - Sent to Management for approval (GC)
  - Letters issued

#### 2. Faculty CAS

- Scrutinize applications for pre-requisite conditions and prepare a summary report as per the prevailing norms sanctioned by GC.
- Screening committee meeting is scheduled
  - Principal
  - Management for approval (GC)
- Sent to management for approval (GC)
- Letters issued



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### ANNEXURE C-Faculty Empowerment Schemes

Faculty is the most important pillars of an institute. While students spend their 4 years in the institute, by large, teacher spends 30-40 years with the institute. Empowerment of faculty in turn is an empowerment of the student. While investment on empowerment of a student is recurring, the investment on empowerment of faculty gives long term returns. Institutes need to ensure continuous value addition of each and every faculty member. To encourage this, following schemes / policies are framed for various activities under the broad umbrella of faculty empowerment. Following policies/schemes are devised for empowerment faculty members.

#### 1. Participation in Conference / Seminar/ Workshop / Exhibition /Technical Festivals /FDP / Training programs /STTP etc.

**Empowerment comes through external exposure:**

- Faculty members are encouraged to participate in the **quality conferences** arranged by institutions of repute, centrally funded institutions, state govt. funded institutions, TEQIP funded institutions and other institutions in the country preferably in the bracket of 200 ranks in the NIRF.
- Faculty member publishing/presenting paper in the conference/workshop/ congress etc. will be reimbursed total expenditure towards this which include permissible travel expenses, stay arrangement, permissible dearness allowance, and registration fees.
- Every faculty will be supported once in every year for such activity.
- Faculty members (who are not authors) but interested in attending these prestigious conferences, workshops, seminars etc. will also be supported to the limit of **75% of the actual expenses**.
- The principal may accord sanction to additional conference/event for a particular faculty as a token of appreciation towards **valuable contribution** of an individual to the institute.
- Every faculty deputed for such external event, shall **submit a report**, and give a brief seminar in the department to the colleagues/students regarding the event/topic/paper.

#### 2. Professional membership of Technical Societies such as IET, IEEE, IE(I), IETE, CSI, ACM, or any other professional society recommended by the respective HoD and Dean-Administration.

**Empowerment comes through Collaboration:**





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- Every faculty will be encouraged to be the member of the professional societies in the domain.
- Institute will support 75% of the membership fees every year for every faculty with a maximum limit of Rs. 20000.

### 3. Assistance for registering patent/copy right/IPR.

**Empowerment comes through Innovation:**

- The IPR and Patents have become very important in today's context for any higher education institute, in particular the technical education institution.
- Faculty need to be encouraged to innovate. Attempts be made to make them more innovative and creative.
- Projects, capstone project, mini project, give student opportunities to work together, work on new ideas. It may lead to start up / entrepreneurship.
- To encourage innovative works of the faculty, 100% financial support towards the expenses incurred in registering the new idea, patent will be provided by the institute.
- The application in this regard be forwarded through the Head of the Department. The institute level R&D committee under the Dean Academic & Research will evaluate this within a week.
- This committee will consist of 5 senior faculty across the institute covering broadly all domains of learning.
- The committee will scrutinize these proposals scrupulously. Based on the merits of the proposal a decision will be taken whether to extend the financial support or not.
- Financial support extended will be 100% of the total expenses (covering entire stages such as filing the patent, first examination, cross examination, response to the queries, all Govt fees and official charges of patent attorney, charges towards the certificate of award of the patent, etc). The patent will be property of the institute. It will be in the name of the institute. The faculty will be the authors for the patent.
- If the patent is rejected, the 50% expenses will be returned by the faculty to the institute.
- Only one patent per year per faculty will be supported.

### 4. Assistance for Industrial Visits/Internship/Tours.

**Empowerment comes from Industrial exploration:**



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- Faculty members are encouraged to visit industry, arrange industrial tours, do the industry internship to get real life flavors.
- Faculty will be financially supported for these activities.
- Every faculty will be supported once in every year for maximum 5 days.
- The permissible travelling and dearness allowances and permissible expenses towards stay will be reimbursed at actual.
- Faculty going for long duration industry internships will also be supported.

### 5. Support to purchase the books.

**Empowerment comes from quality learning material:**

- Teacher is expected to refer good quality learning material.
- Teacher is expected to refer several world class books while preparing for the course to be taught.
- This is continuous process and demands the awareness of recent publications and literature.
- To facilitate every teacher is encouraged to procure the books.
- A financial support of actual amount spent on books limited to Rs. 5000/- per year will be extended to every faculty member.

### 6. Assistance for enrollment for the MOOC's courses.

**Empowerment comes from accessibility:**

- Open learning platform such as NPTEL, Coursera, edX offer great learning opportunity for today's learners.
- This is enriching education. New courses on cutting edge technology, and of interdisciplinary nature can be studied on these platforms from the best universities of the world.
- The best teachers of these universities make such courses available to worldwide learners.
- Anytime, anywhere and offered at the individual pace are very distinctive and attractive features of these courses.
- Many reputed universities have started online specialization programs in emerging areas.
- IITs offer more than 400 courses on NPTEL/SWAYAM platform. Many of these courses are live courses and offered semester to semester. IITs also take Procter examinations and offer certificates to the learners who have successfully completed the registered course.



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- All faculty members in the institute be encouraged to register for these courses and increase the bandwidth of the knowledge.
- To facilitate this, every faculty will be supported with 100% of actual registration fees for MOOC's courses from NPTEL and upto 90 % for MOOCs from other platform.
- Teachers are expected to register for the courses related to new technology, inter disciplinary courses, advance mathematics and statistics related courses, and other value addition courses.
- Every teacher will be supported to register for one course per semester.
- Institute may also felicitate such Teachers who have registered and completed the MOOC's course successfully in the Academic Council to appreciate the efforts of the teachers towards knowledge up gradation.

**7. Tuition fees support to faculty for higher education/additional qualification.**

**Empowerment comes from higher education:**

- Lifelong learning has become the essential attribute of today's engineer. **Disruption of technology** is giving rise to several new fields.
- To sustain in such changing time, faculty members will have to continuously learn.
- To support faculty for enrolment to the **higher education, tuition fees support** will be extended to the faculty to the tune of **50% of the actual fees paid** for the relevant programs at institute of high repute such as IITs/IIITs/NITs.
- Faculty requiring such support will make an application well in advance for such support.
- Presently such support will be extended for additional ME/M.Tech./MS Degree or Ph.D. program for regular and permanent faculty members.

**8. Paper publication in the international conference outside the country.**

**Empowerment comes from international exploration:**

- Faculty is encouraged to publish their **quality work** at the international conference of repute outside the country, present the paper, visit few universities nearby, and interact with domain experts.
- The support is extended towards **registration fees, travel, stay and other expenses**.
- For international event, such support will be limited to **Rs. 1,00,000/-**.





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- Faculty willing to publish a research paper at an international event outside the country should apply with the due recommendations of the HoD to Dean R&D.
- Institute level committee will scrutinize the application and will make recommendation to the principal.
- The faculty applying for this support, however, will make all possible attempts to fetch external support from various central and state funding agencies such as AICTE, SGBAU, UGC, DST, DoT, BARTI, SARTHI etc.
- If some external partial support is obtained, institute will give additional support limited to Rs. 1,00,000/-.
- Every faculty deputed for such external event, shall submit a report and give a open talk in the institute inviting all faculty/students.
- Every faculty will be supported once in every 3 years for publishing paper at the international event outside the country.

### 9. Organization of STTP/FDP/Seminar/Workshop/Conference.

#### Empowerment comes from Support:

- Faculty/Department interested in the organization of such event will make a detailed proposal to the Dean R&D.
- The institute level committee will scrutinize the proposal and make its recommendations to the principal.
- If the amount requested is below Rs.1,00,000/-, Principal will accord the sanction to this proposal.
- Other proposals will be placed in the BoG meeting for sanction. However, the interested faculty should use this support as seed money and fetch external funding from various state and central funding agencies such as DST, AICTE, MU, UGC, and industries.
- One event per department per year will be supported by the institute.
- If there are more proposals, department will prioritize and recommend only one proposal in one semester.

### 10. Research Support to young faculty.

#### Empowerment comes from supporting seed money:

- The new entrant faculty will be supported by a seed money of Rs. 2,00,000/- for the research project to begin/to continue the journey of research.
- This will enable the young faculty to continue the research work of M.E/Ph.D after joining the institute.



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- The faculty will write a **research proposal**. It will be scrutinized by the institute level R&D committee.
- The proposal will be recommended by the Dean R&D and approved by the principal.
- Every faculty is eligible for this support only once in his career, and **within first 5 years of his/her service**.

**Important Notes:**

- Every faculty will be supported for any number of activities indicated in 1-7 with an annual limit of Rs. 50,000/- per faculty.
- Every faculty will be supported once in three years for the scheme no. 8.
- Scheme 9 and 10 are applicable to department and young faculty

**Financial Implication for Financial Year: 2023-24**

**Total Strength of the faculty members in 2023-24: 74 (Permanent: 59 and Ad hoc: 15)**

Scheme No.	Scheme Description/Type	Approx. No. of Faculty Target/Year	Approx. Amount Expected	Total Amount
1	Participation in Conference / Seminar/ Workshop / Exhibition /Technical Festivals /FDP / Training programs /STTP etc. (Support 75% of actual expenses)	20 (25%)	Rs.10,000	Rs.2,00,000
2	Professional membership of Technical Societies such as IET, IEEE, IE(I), IETE, CSI, ACM or any other professional society.(Support 75% of membership fees)	40 (50%)	Rs. 5,000	Rs.2,00,000
3	Assistance for registering patent/copy right/IPR. (100% support)	10 (15%)	Rs. 10,000	Rs.1,00,000
4	Assistance for Industrial Visits /Internship/Tours. (100% Support)	12 (18%)	Rs. 25,000	Rs.3,00,000
5	Support to purchase the books. (100% Support)	60 (80%)	Rs. 5,000	Rs.3,00,000
6	Assistance for enrollment for the MOOC's courses. (100% of actual Registration fee for NPTEL)	20 (25%)	Rs. 5,000	Rs.1,00,000
7	Tuition fees support to faculty for higher education/additional qualification. (50% of actual fees paid)	04 (5%)	Rs. 50,000	Rs.2,00,000



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8	Paper publication in the international conference outside the country. (limit 1 lac)	05 (7%)	Rs.1,00,000	Rs.5,00,000
9	Organization of STTP/FDP/Seminar /Workshop/Conference (per dept. 1)	03 (5%)	Rs.1,00,000	Rs.3,00,000
10	Research Support to young faculty	02 (10% YF)	Rs.1,00,000	Rs.2,00,000
Total	Permanent Faculty Members	59 @	--	Rs.24,00,000 (24 lacs)
Total	Ad hoc Faculty Members	15 #	--	Rs. 2,00,000 (2 Lacs)

@: Total no. of current permanent faculty members: 59

#: Total no. of current Ad hoc faculty members: 15



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## Sardar Patel Institute of Technology Empowerment Policy for Students 2023

Students are the most important pillars of the Institute. Holistic development of Students is the prime responsibility of the Institute. Their professional involvement in terms of participation in Conference, Competition, Hackathon, Sports, and Technology Training is extremely important. Financial support to students may increase their participation.

Seven policies are devised for empowerment.

### 1. Participation in Conferences, Seminars, Workshops, Exhibitions, Technical Festivals, etc. [Organized by Centrally funded institutions, State funded institution, TEQIP funded Institution and other institutions in 200 bracket of ranking by NIRF]

#### Empowerment comes through Exposure:

- Students are encouraged to take part in:
  - Technical Festivals and Competitions such as Tech-Fest, Mind-Spark, etc.
  - National Conferences
  - Seminars
  - Workshops
- Students will greatly benefit from the numerous events and competitions that is offered to them. These experiences are necessary for an enriching engineering education.
- Any UG/PG/PhD student of the institute can avail such assistance once in a year and maximum twice in his/her program of study.
- Note: This assistance shall include registration fees, expenses towards food/stay/travelling, etc. limited to Rs. 2000 per student per year or actual expenditure incurred whatsoever is low.
- This assistance will be provided only for those students who are partaking in the events in the form of presenting papers, projects, giving a technical talk, attending a technical quiz, participating in technical contests, etc.
- Students need to apply in the prescribed format along with the necessary documents viz. participation certificate, receipts/tickets for the expenses for this assistance after the event, duly recommended and signed by the faculty coordinator/project guide/Supervisor for the Dissertation/Research Guide to the HOD.
- The HOD needs to forward the application to the Dean SAER with the comments. The Dean SAER will study the documents and decide the amount to be reimbursed.

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*[Signature]*



*[Signature]*  
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## **2. Professional membership of Technical Societies such as IET, IEEE, CSI, ASM**

### **Empowerment comes through Collaboration:**

- The Institute encourages maximum student participation in the activities of the professional societies in the technical field.
- The Institute understands the importance of such participation and will assist the students for membership.
- Membership in societies like IEEE & CSI allows students to be technically current, network with colleagues abroad and collaborate on research and projects with leading experts - all while taking advantage of specialized opportunities.
- Discover which society, or societies, best match your technical interests and take advantage of membership benefits ranging from access to cutting-edge technical magazines and conference discounts to educational resources and worldwide networking opportunities.

Half the registration fees (limited to maximum Rs.1000/-) will be reimbursed by the institute.

- Note: The student needs to first pay the necessary fees and then apply for the reimbursement.
- Only one membership is permitted per year per student.
- Student with recommendation from the HOD will apply to the Dean SAER for the approval.

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## **3. Assistance for registering Patents, Copyrights, IPRs**

### **Empowerment comes through Innovation:**

- Intellectual Property Rights (IPR) and Patents have become very important in today's context for any higher education institute, in particular technical institutions.
  - Innovation is often necessary for students to adapt and overcome the challenges of change. It fosters growth, learning and inner strength.
  - Extensive projects give student opportunities to work on new ideas together. That is how startups are made.
- Note: An assistance of 75% of the actual cost involved in registering the new idea and patent will be provided by the Institute.
- The application in this regard be forwarded by the students through the Head of the Department and Dean SAER to the Dean R&D, which then will be evaluated by the Institute-level committee.



## Empowerment Policy for Students 2023

- The committee will consist of 5 members across the institute covering broadly all domains of learning.
  - The committee will meet once every month and scrutinize these proposals scrupulously. Based on the merits of the proposal a decision will be taken whether to extend the financial support or not.
  - Patent shall be in the name of the institute. The student/students will be the Authors.
- 

### 4. Participation in external Technical Training Programs.

#### Empowerment comes from Preparation:

- To be a successful engineer in the current atmosphere of rapid technological advancement, one must constantly learn and prepare themselves.
  - The Industry requires skilled engineers to be part of the said advancement. Centrally Funded Institutions like IITs and the Tech Industry regularly arrange valuable training programs for students who are willing.
  - Students should exploit such training programs offered to them to increase their knowledge base and be employable in a highly competitive and ever-changing market space.
  - Note: A financial support limited to 50 % of the registration fees or Rs. 5000/- whatsoever is lower will be extended to every student once during the program of study.
  - Besides this 50 % expenses towards travel and food/stay or Rs. 500/-per day whatsoever is lower, limited to maximum Rs. 2500 will also be extended.
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### 5. Assistance for enrollment for the MOOC courses.

**Empowerment comes from accessibility:**

- The Internet has paved the way for open learning platforms such as NPTEL, Coursera, edX, which offer great learning opportunities for today's learners.
  - Students can learn from content beyond the syllabus, courses beyond structure, Interdisciplinary courses from the best universities of the world, at their own pace.
  - Many institutions and Universities have started to formally accept the credits earned by students from open learning platform. IITs offer more than 400 courses on their NPTEL/SWAYAM platform. All students in the Institute must register for these online courses and increase the bandwidth of the learning.
- Note: Students will be supported to the tune of 75% of actual registration fees or maximum Rs. 2,000/- whichever is less for NPTEL / edX / Coursera / Audacity courses per year. This support shall be extended to maximum one course per semester per student.
- 

### 6. Industrial Visits, Tours, Internships

**Empowerment comes from Exploration:**

- The Institute strives hard for possible interactions with industries on all fronts.
  - AICTE strongly advocates the need of Industry Internships, Industry Visits, Internships, Industry sponsored real-life projects, to enrich the learning experience.
  - Students must explore various domains and get hands-on experience to get an edge over others.
- Note: Departments are expected to arrange at least one industrial visit per year.
- Similarly, a focused technical tour for the post graduate students will be arranged by every department every year.
- For Industrial visits, financial support of Rs. 500/- per day per student will be extended for outstation industrial visits.
- For long term industrial tours (more than 3 days), a support of Rs. 2000/- will be extended for every student once in every year towards the expenses incurred. (Travel, Food, Hotel etc.).

*[Signature]*

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*Sekandar*

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Sekandar Patel Institute of Technology  
Munshi Nagar, Andheri (W)

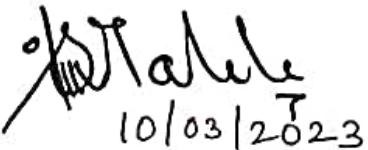
## Empowerment Policy for Students 2023

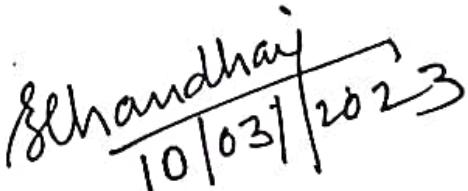
### 7. Assistance for Research-Flavored Projects and Dissertations

#### Empowerment comes from Performance:

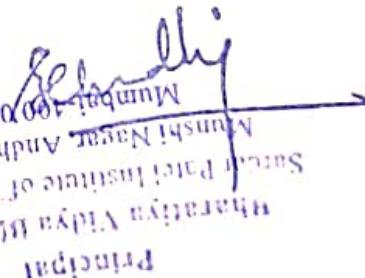
- Research Projects, Dissertations give opportunity for students to innovate, design, fabricate, experiment on different ideas. The Field of Research is ever-growing, where great academic institutions and companies are extensively funding useful research.
- Students need to be encouraged to work on industry relevant hardware projects than limiting themselves on simulations.
- Note: Interested students will write a brief proposal giving the background, problem statement, budget, and phases of the execution to the department.
- Such proposals will be scrutinized thoroughly and recommended for support accordingly.
- The Institute-level Committee under Dean R&D will take the decision for extending such support. A financial assistance of 70% of actual cost incurred shall be reimbursed.
- There will be no ceiling for this support. This support shall be extended to every PG dissertation or UG project (minimum group of 3 students).
- There will be Institute-level Annual Exhibitions, demonstrating these supported projects, and an award in the form of certificate and medal will be given to the Best Project/Dissertation of the year.

**IMPORTANT NOTE:** Every regular student can take benefit of one or any number of empowerment schemes provided that total support in one financial year does not exceed Rs.6000/- per student. This ceiling excludes item no. 6 & 7.

  
10/03/2023

  
Elmandhai  
10/03/2023



  
Principal  
Shri Jayant Vidyavani's Patel Institute of Technology  
Mumbai 400 058  
Andheri (W), Mumbai - 400 058  
Santacruz (W), Mumbai 400 059  
Nariman Point, Mumbai 400 021  
Sion, Mumbai 400 022

Date : 8-03-2019

From,

K. T. Talele  
Incharge, IEDC  
Sardar Patel Institute of Technology, Andheri(w)

To,

The Principal,  
S.P.I.T.  
Andheri(w).

Subject : Approval for filing patents.

Respected Madam,

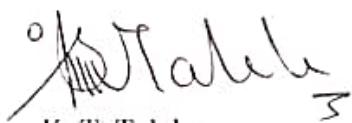
Patents of IEDC project groups are ready for submission to Indian Patent Office. The registration fees for filing per patent is 4500/- for individual applicant and Rs. 8800/- for institute applicant. Total fees required to file all patents is Rs 1,03,100/- The details of patents to be filed is attached herewith for your kind perusal.

I kindly request you to approve and sanction the expenditure.

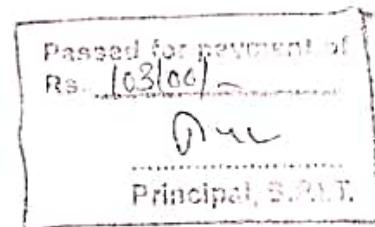
Please instruct the account section to prepare Demand Draft of Rs Rs 1,03,100/- in favour of "The Controller of Patents" payable in Mumbai.

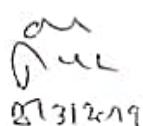
Thanks and regards,

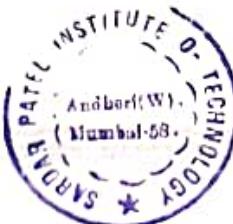
Yours Faithfully,

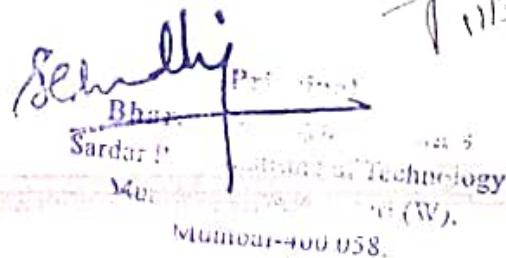


K. T. Talele



  
21/3/2019



  
Bhushan Patel  
Sardar Patel Institute of Technology  
Mumbai-400 058.

Kf, 11/3/2019

Gm  
21/3/19

Gm  
21/3/19

Details of patents to be filed at Indian Patent Office.

Sr. No	Patent name	Name of Applicant	Patent Filing Fees
1	Systems and Methods to make bread based food stuffs automatically	Sardar Patel Institute of Technology	880/-
2	Systems and Methods to categorize and retrieve documents	Prachi Gharpure	450/-
3	Systems and Methods for automatic medicine vending machine	Payal Shah Rajendra Sutar	450/-
4	Systems and Methods for Transmitting and Receiving Audio data using Light	Manisha Bansode Deepak Karia	450/-
5	Systems and Methods to provide Counseling Assistance	Swapali Kurhade	450/-
6	Systems and Methods to improve the set up process of Microgrids	Jignesh Sisodia	450/-
7	Systems and Methods for managing traffic moving through a transport network	Anant Nimkar	450/-
8	Systems and Methods to train and test using Augmented reality	Payal Shah	450/-
9	Systems and Methods to Detect Retinal Diseases	Kailas Devadkar	450/-
10	Systems and Methods to Detect Fake Currency for Visually Impaired People	Surekha Dholay	450/-
11	Systems and Methods for Braille Language Self Learning	Vijaya Kamble	450/-
12	Systems and Methods for Universal Recommendation Generator	Prachi Gharpure	450/-
13	Systems and Methods to Control Electrical Appliances using Voice Commands	Prachi Gharpure	450/-
14	Systems and Methods to Facilitate a Route along with a Fare from Source to Destination	Harshil Kanakia	450/-
15	Systems and Methods for Interpreting Text, Graphs or the Like into Audio Signal	Yerramreddy Srinivasa Rao	450/-
16	Systems and Methods for Facilitating Quick Passage of a Vehicle through a Transportation System	Harshil Kanakia	450/-
17	Food Smiles	Prachi Gharpure	450/-
18	Virtual Fitness System	Kiran Talele	450/-
19	Systems and method for detecting fraud in an organization and the like environment	Parmar Manish	450/-
20	System and Method to facilitate collection and forwarding donated commodity to authorize central collection centers	Pooja Raundale	450/-
21	CNC based Autogenous cultivator	Sardar Patel Institute of Technology	880/-

Total ↗

1,03,100



*S. Chintuji*  
Principal  
Bharatiya Vidya Bhawan's  
Sardar Patel Institute of Technology  
Munshi Nagar, Andheri (W),  
Mumbai - 400 053.

Date : 8-03-2019

From,

K. T. Talele  
Incharge, IEDC  
Sardar Patel Institute of Technology, Andheri(w)

To,

The Principal,  
S.P.I.T.  
Andheri(w).

Subject : Approval for filing patents.

Respected Madam,

Patents of IEDC project groups submitted on 13/03/2015 are published on 16/09/2016. We have to apply for examination of published patents before 13/03/2019. The examination fees per patent is 4400/- for individual applicant. Total fees required for all patents is Rs 13,200/- The details of patents to be examined are attached herewith for your kind perusal.

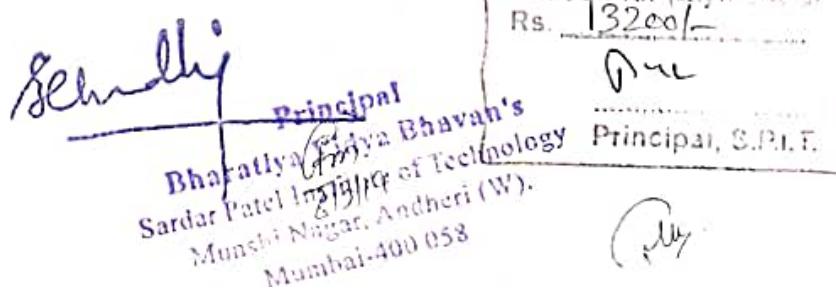
I kindly request you to approve and sanction the expenditure.

Please instruct the account section to prepare Demand Draft of Rs Rs 13,200/- in favour of "The Controller of Patents" payable in Mumbai.

Thanks and regards,

Yours Faithfully,

K. T. Talele



Details of patents to be filed at Indian Patent Office.

Sr. No	Patent name	Name of Applicant	Patent filing Fees
1	Non Invasive motion Tracking and Real Time Feedback providing System and Methods  Inventors Name :  Kamra, Akshay Bhojani, Viral Nayyar, Vivek Shankarmani, Radha	Prachi Gharpure	4400
2	VEHICLE EVENT RECORDER AND CRASH RECOVERY SYSTEM  Inventors Name :  Kankonkar, Prateek Ghadi, Ameya Patil, Parth Rathod, Surendra	Prachi Gharpure	4400
3	COMBINATION OF CELLULAR PHONE HAVING ELECTRO SHOCKING DEVICE AND REMOTE ALERT SYSTEM  Inventors Name :  Jadhav, Ninad Jain, Manish Ostwal, Prajakta Talele, Kiran	Prachi Gharpure	4400
		<b>Total ➔</b>	<b>13,200</b>



*Selvendhi*  
Principal  
Bharatiya Vidya Bhavan's  
Sardar Patel Institute of Technology  
Munshi Nagar, Andheri (W),  
Mumbai-400 058.



Date : 03-05-2019

From,

K. T. Talele  
Incharge, IEDC  
Sardar Patel Institute of Technology, Andheri(w)

To,

The Principal,  
S.P.I.T.  
Andheri(w).

Subject : Approval for filing patents.

Respected Madam,

A Demand Draft of Rs 1,03,100/- in favour of "The Controller of Patents" payable in Mumbai has been returned by patent office. It is required to prepare multiple demand drafts as per the type of applicant and for a group of maximum five patents in one group. Please refer the attached document for the preparation of DD.

We need to prepare five DD in favour of "The Controller of Patents" payable in Mumbai.

Sr No	Amount	Details
1	62 17,600	"The Controller of Patents" payable in Mumbai.
2	44 12,500	
3	22,500	
4	22,500	
5	22,500	
Total Amount : 97,600		

Kindly approve.

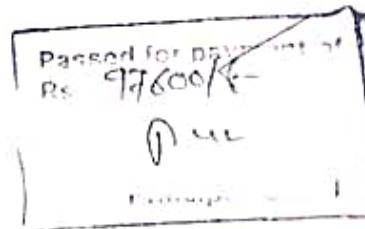
Thanks and regards

Yours Faithfully,

K. T. Talele



Bharatiya Vidya Bhavan's  
Sardar Patel Institute of Technology  
Mumbai (W) Mumbai-400 052

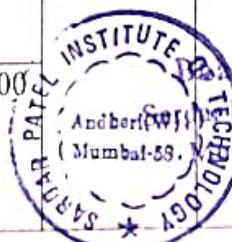


97600/-  
Due  
9/5/19

R. P. Patel  
9/5/19

**Details of patents to be filed at Indian Patent Office.**

Sr. No	Patent name	Name of Applicant	Patent filing Fees	Demand Draft Amount	DD Details
A1	Systems and Methods to make bread based food stuffs automatically	Sardar Patel Institute of Technology	8800	17,600	The Controller of Patents
A2	CNC based Autogenous cultivator	Sardar Patel Institute of Technology	8800		
B1	Systems and Methods to categorize and retrieve documents	Prachi Gharpure	4500	12,500	The Controller of Patents
B2	Systems and Methods for Universal Recommendation Generator	Prachi Gharpure	4500		
B3	Systems and Methods to Control Electrical Appliances using Voice Commands	Prachi Gharpure	1750		
B4	Food Smiles	Prachi Gharpure	1750		
C1	Systems and Methods to provide Counseling Assistance	Swapali Kurhade	4500	22,500	The Controller of Patents
C2	Systems and Methods to improve the set up process of Microgrids	Jignesh Sisodia	4500		
C3	Systems and Methods for managing traffic moving through a transport network	Anant Nimkar	4500		
C4	Systems and Methods to Detect Fake Currency for Visually Impaired People	Surekha Dholay	4500		
C5	Systems and Methods for Interpreting Text, Graphs or the Like into Audio Signal	Yerramreddy Srinivasa Rao	4500		
D1	Systems and Methods to train and test using Augmented reality	Payal Shah	4500	22,500	The Controller of Patents
D2	Systems and Methods to Detect Retinal Diseases	Kailas Devadkar	4500		
D3	Systems and Methods for Braille Language Self Learning	Vijaya Kamble	4500		
D4	Systems and Methods to Facilitate a Route along with a Fare from Source to Destination	Harshil Kanakia	4500		
D5	Systems and Methods for Facilitating Quick Passage of a Vehicle through a Transportation System	Harshil Kanakia	4500		



*S. Chaudhary*  
Principal  
Saratiya Vidya Bhavan's  
Sardar Patel Institute of Technology  
Andheri (W), Mumbai-400 058.

Sr. No	Patent name	Name of Applicant	Patent filing Fees	Demand Draft Amount	DD Details
E1	Virtual Fitness System	Kiran Talele	4500	22,500	The Controller of Patents
E2	Systems and method for detecting fraud in an organization and the like environment	Parmar Manish	4500		
E3	System and Method to facilitate collection and forwarding donated commodity to authorize central collection centers	Pooja Raundale	4500		
E4	Systems and Methods for automatic medicine vending machine	Payal Shah Rajendra Sutar	4500		
E5	Systems and Methods for Transmitting and Receiving Audio data using Light	Manisha Bansode Deepak Karia	4500		
		Total ➔		97,600	



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केवल अदात के लिए १५ दिन से पहले जारी होना चाहिए।

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T17/MDDV

AMIT K. CHANDAN  
Authorized Signatory (S.S. No.)  
SR NO. 34253  
Please sign above

\*\* 367807 0000190000 16

**इंडियन बैंक**  
**Indian Bank**  
(सार्वजनिक शाखा / ISSUING BRANCH)

BHAVAN'S CAMPUS BRANCH (01745)

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प्रति रुपये के लिये अदा करें FOR VALUE RECEIVED ₹ \*\*\*\*\* 22500.00

App Name: SARDAR PATEL INSTITUTE OF TECH \*\*\*\*\*

इंडियन बैंक की सभी शाखाओं में समानांतर पर देवा।  
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SERVICE BRANCH (MUMBAI)  
(भावना का ग्राहक शाखा)

T17/MDDV

AMIT K. CHANDAN  
Authorized Signatory (S.S. No.)  
SR NO. 34253  
Please sign above

\*\* 367806 0000190000 16

**इंडियन बैंक**  
**Indian Bank**  
(सार्वजनिक शाखा / ISSUING BRANCH)

BHAVAN'S CAMPUS BRANCH (01745)

THE CONTROLLER OF PATENTS \*\*\*\*\*

पांच जून पर ON DEMAND PAY

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दसवें RUPEES \*\*\*\*\*

प्रति रुपये के लिये अदा करें FOR VALUE RECEIVED ₹ \*\*\*\*\* 22500.00

App Name: SARDAR PATEL INSTITUTE OF TECH \*\*\*\*\*

इंडियन बैंक की सभी शाखाओं में समानांतर पर देवा।  
Payable at par at all branches of Indian Bank

MDDV367805

SERVICE BRANCH (MUMBAI)  
(भावना का ग्राहक शाखा)

T17/MDDV

AMIT K. CHANDAN  
Authorized Signatory (S.S. No.)  
SR NO. 34253  
Please sign above

AMIT K. CHANDAN  
Print Name  
Bharati Sardar Patel Institute of Technology  
16 Sardar Patel Institute of Technology  
Munshi Nagar, Andheri (W),  
Mumbai-400 058.

\*\* 367805 0000190000 16

संक्षिप्त रूप  
**Indian Bank**

(क्रान्ती कालीन / इस्सिंग ब्रांच)

THE CONTROLLER OF PATENTS

मान आव ए पा ओ डेमेंड पे वे  
SEVENTEEN THOUSAND SIX HUNDRED ONLY

RUPEES

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MUMBAI 367803

मान आव ए पा ओ डेमेंड पे वे

App Name : SARDAR PATEL INSTITUTE OF TECH  
सर्विस ब्रांच (मुंबई)  
(अंधेरी (एस) ब्रांच)  
AMIT KOTHANDANI  
AMIT KOTHANDANI  
Koteshwar Colony (GSS No.)  
Please sign above

T17/MDDV

11.36.7803 • 01.01.2000:

1.E.



Principal

Bharatiya Vidyabhavan's  
Sardar Patel Institute of Technology  
Munshi Nagar, Andheri (W),  
Mumbai-400 058.



Date : 15-05-2019

From,

Dr. Sujata Kulkarni  
Information Technology Dept.  
Sardar Patel Institute of Technology, Andheri(W)

To,

The Principal,  
S.P.I.T.  
Andheri(w).

Subject: Approval for Filing Patent at Indian Patent Office

Respected Madam,

I wish to file patent at Indian patent office. The patent is developed at SPIT Laboratory by the student group under my guidance. I understand, once the patent is commercialized then 50% rights would be with the Institute and the remaining 50% rights would be shared between applicants/inventors.

The details of the patent is as follows:

Title of Patent : **Solar Power Based Self Cleaning Toilet.**

Name of Applicant : **Dr. Sujata Kulkarni**

Name of Inventor : **Divit Karmiani, Aastha Shah, Dharini Mehata**

I kindly request you to approve and sanction the patent filing fees of Rs 4500/- for the same. I agree that if approved, the requested amount would be deducted from my paper publication amount for two year window.

Kindly do the needful.

Thanks and regards,

Yours Faithfully,

*[Signature]*  
Dr. Sujata Kulkarni  
(Applicant)

*[Signature]*  
Dr. Sujata Kulkarni  
IEDC Co-ordinator

*[Signature]*  
Dr. Y. S. Rao  
Dean R & D

*[Signature]*  
Dr. Prachi Gharpure  
Principal



*[Signature]* Bharatiya Vidya Bhawan's  
Sardar Patel Institute of Technology  
Mumbai Nagar, Andheri (W)  
Mumbai - 400 058.

Passed for payment of	Rs 4500/-
21/5/19	.....
	Principal, S.P.I.T.

*[Signature]*  
Gm  
31/5/19

PATENT OFFICE  
INTELLECTUAL PROPERTY BUILDING  
S.M. Road, Antop Hill, Mumbai-400 037  
Tel No. (091)022 24137701, 24141025 FAX No. 02 24130387  
E-mail : mumbai-patent@nic.in  
Web Site : www.ipindia.gov.in  
Docket NO : 21658



Date/Time : 2019/04/16 15:04:35  
Agent Number:

To  
KULKARNI SUJATA and OTHERS  
C 503 AND 504, ABHIMANYU, N. L. COMPLEX, DAHISAR (E), MUMBAI-400 068, MAHARASHTRA, INDIA.

Sr. No.	CBR Number	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid	Amount Computed
1	8983	ORDINARY APPLICATION Pages:-5 , Claims:-9, Drawings:- 2,Abstract:-1,Claims pages:-2	201921015225	"SOLAR POWER BASED SELF CLEANING TOILET"	1750	1750
2		E-2/924/2019-MUM	201921015226	Form2	0	0
3		E-3/5090/2019-MUM	201921015226	Form3	0	0
4		E-5/740/2019-MUM	201921015226	Form5	0	0
5	8988	E-12/481/2019-MUM	201921015226	Form9	2750	2750
<b>Total Amount</b>					<b>4500</b>	<b>4500</b>

Received a sum of Rs. 4500 (Rupees Four Thousand Five Hundred only) as under

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Cash	--	--	---	4500

Note: This is electronically generated receipt hence no signature required.



*Bhurubhai*  
Principal  
Bharatiya Vidya Bhavan's  
Sardar Patel Institute of Technology  
Munshi Nagar, Andheri (W),  
Mumbai - 400 058.

Date :15-04-2019

From,  
**Renuka Pawar**  
Information Technology Dept.  
Sardar Patel Institute of Technology, Andheri(W)

To,  
The Principal,  
S.P.I.T.  
Andheri(w).

Subject: Approval for Filing Patent at Indian Patent Office

Respected Madam,

I wish to file patent at Indian patent office. The patent is developed at SPIT Laboratory by the student group under my guidance. I understand, once the patent is commercialized then 50% rights would be with the Institute and the remaining 50% rights would be shared between applicants/inventors.

The details of the patent is as follows:

Title of Patent : Systems and methods to improve health condition in critical situation.

Name of Applicant :Renuka Pawar

Name of Inventor :Renuka Pawar, Saurabh Thakare, Pratik Tikarye, Piyush Thulkar

I kindly request you to approve and sanction the patent filing fees of Rs 4500/- for the same. I agree that if approved, the requested amount would be deducted from my paper publication amount for two year window.

Kindly do the needful.

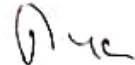
Thanks and regards,

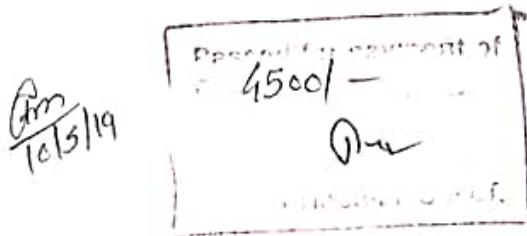
Yours Faithfully,

  
**Renuka Pawar**  
(Applicant)

  
**Varsha Hole**  
IEDC Co-ordinator

  
**Dr. Y. S. Rao**  
Dean R & D

  
**Dr. Prachi Gharpure**  
Principal





Date : 15-04-2019

From,

**Varsha Hole**

Information Technology Dept.

Sardar Patel Institute of Technology, Andheri(W)

To,

The Principal,

S.P.I.T.

Andheri(w).

Subject: Approval for Filing Patent at Indian Patent Office

Respected Madam,

I wish to file patent at Indian patent office. The patent is developed at SPIT Laboratory by the student group under my guidance. I understand, once the patent is commercialized then 50% rights would be with the Institute and the remaining 50% rights would be shared between applicants/inventors.

The details of the patent is as follows:

Title of Patent : **Real Time Environment Description Application.**

Name of Applicant : **Varsha Hole**

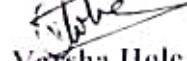
Name of Inventor : **Varsha Hole, Amey Bhole, Gagan Holani and Jay Shah.**

I kindly request you to approve and sanction the patent filing fees of Rs 4500/- for the same. I agree that if approved, the requested amount would be deducted from my paper publication amount for two year window.

Kindly do the needful.

Thanks and regards,

Yours Faithfully,

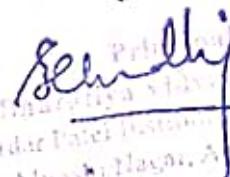
  
**Varsha Hole**  
(Applicant)

  
**Varsha Hole**  
IEDC Co-ordinator

**Dr. Y. S. Rao**  
Dean R & D

**Dr. Prachi Gharpure**  
Principal



  
Prachi Gharpure  
Sardar Patel Institute of Technology, Andheri (W), Mumbai - 400 096  
Date: 10/04/19



इंडियन बैंक  
(बारोफक्ट भारत / ISSUING BRANCH)

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5	5	4	2	0	1	7
6	6	5	3	1	2	8
7	7	6	4	2	3	9
8	8	7	5	3	4	
9	9	8	6	4	5	
10	10	9	7	5	6	
11	11	10	8	6	7	
12	12	11	9	7	8	

1	2	3	4	5	6	7
---	---	---	---	---	---	---

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Authorised Signatory (S.S. No.)  
अधिकृत हस्ताक्षरकारी  
Authorised Signatory (S.S. No.)

Please sign above

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T17/MDDV



To

The Principal

S.P.I.T

Andheri (W)

Sub: Re-imbursement of  
g of Rs

Patent filing fees  
4500/- ✓

Dear Madam,

I am

approval form &  
patent filing fees of DD of Rs 4500/-

submitting the

receipt of

Please reimburse the same.

Thank You,

Yours sincerely,

*Smt. S. J. T.*

Passed for payment of
Rs. <u>4500/-</u>
Due
Principal, S.P.I.T.



Saturday 27/5/19  
Principal  
Bhartiya Vidya Bhawan's  
Sardar Patel Institute of Technology  
Munshi Nagar, Andheri (W).  
Mumbai - 400 058.

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29/5/19

-/- 29/5/19  
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feed  
(Am)  
29/5/19

Date : 16-04-2019

From,

Sukanya Kulkarni

Electronics and Telecommunication Dept.  
Sardar Patel Institute of Technology, Andheri(W)

To,

The Principal,

S.P.I.T.

Andheri(w).

Subject: Approval for Filing Patent at Indian Patent Office

Respected Madam,

I wish to file patent at Indian patent office. The patent is developed at SPIT Laboratory by the student group under my guidance. I understand, once the patent is commercialized then 50% rights would be with the Institute and the remaining 50% rights would be shared between applicants/inventors.

The details of the patent is as follows:

Title of Patent : Systems and methods for a device capable of performing motion and replicating a natural limb.

Name of Applicant : Sukanya Kulkarni

Name of Inventor : Ankita Bhusari, Neha Gupta, Tanaya Kambli, Sukanya Kulkarni

I kindly request you to approve and sanction the patent filing fees of Rs 4500/- for the same. I agree that if approved, the requested amount would be deducted from my paper publication amount for two year window.

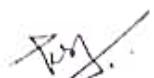
Kindly do the needful.

Thanks and regards,

Yours Faithfully,



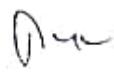
Sukanya Kulkarni  
(Applicant)



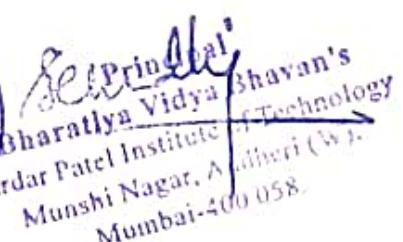
Sujata Kulkarni  
IEDC Co-ordinator



Dr. Y. S. Rao  
Dean R & D



Dr. Prachi Gharpure  
Principal



Dr. Bhavani Shrivastava  
Sardar Patel Institute of Technology  
Munshi Nagar, Andheri (W).  
Mumbai-400 058



IFSC CODE - UTBK0001052

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CODE NO.

AUTHORISED SIGNATORY

संधृपत वक्तव्य कार्यालय

AUTHORISED SIGNATORY

संधृपत वक्तव्य कार्यालय

Please sign above

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DD / PO.SLIP:

Branch: Margao  
Date: 15/4/2019

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The Controller of Patents

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Total		

Amount in Words: Four Thousand Only

Four Thousand Only

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INSTITUTE OF TECHNOLOGY AND MANAGEMENT  
ANDHERI (W.), MUMBAI-58,  
MAHARASHTRA, INDIABandra East, Andheri (W.), Mumbai-58,  
Maharashtra, India

Plot No. 10, Sector 10, Vashi Nigdi, Navi Mumbai-401106

PATENT OFFICE  
INTELLECTUAL PROPERTY BUILDING

S.M. Road, Antop Hill, Mumbai-400 037  
Te No. [091(022) 24137701, 24141025 FAX No. 02 24130387  
E-mail: mumbai-patent@ait.in  
Web Site : www.ipindia.gov.in  
Docket NO : 21678



GOVERNMENT OF INDIA



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INSTITUTE FOR INTELLIGENT TRADE MARKS  
GROWTH/HEALTH INDUSTRY

Date/Time : 2019/04/16  
16:04:02

Agent Number:

To  
KULKARNI SUKANYA, BHUSARI ANKITA, GUPTA NEHA & KAMLETI TANAYA  
SARDAR PATEL INSTITUTE OF TECHNOLOGY, MUNSHI NAGAR, BHAVAN'S CAMPUS, ANDHERI (W), MUMBAI-400 058, MAHARASHTRA,  
INDIA.

Sr. No.	CBR Number	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid	Amount Computed
1	8996	ORDINARY APPLICATION Pages:-6 , Claims:-5,Drawings:- 2,Abstract:-1,Claims pages:-2	201921015249	"SYSTEMS AND METHODS FOR A DEVICE CAPABLE OF PERFORMING MOTION AND REPLICATING A NATURAL LIMB"	1750	1750
2		E-2/926/2019-MUM	201921015249	Form2	0	0
3		E-3/5096/2019-MUM	201921015249	Form3	0	0
4		E-5/742/2019-MUM	201921015249	Form5	0	0
5	8996	E-12/483/2019-MUM	201921015249	Form8	2750	2750
Total Amount					4500	4500

Received a sum of Rs. 4500 (Rupees Four Thousand Five Hundred only) as under

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	AXIS BANK LTD.	005737	15/04/2019	4500

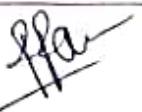
Note: This is electronically generated receipt hence no signature required.

*[Signature]*

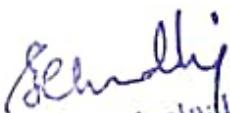


*[Signature]*  
Principal  
Bharatiya Vidya Bhavan's  
Sardar Patel Institute of Technology  
Munshi Nagar, Andheri (W)  
Mumbai-400 058

## Reimbursement of Patent Filing Fees.

Sr.No.	Name of Staff	Amount	Sign
1	Dr. Sujata Kulkarni	4500/-	
2	Renuka Pawar	4500/-	
3	Varsha Hole	4500/-	
4	Dr. Sukanya Kulkarni	4500/-	
<b>Total</b>		<b>18000/-</b>	



  
 Principal  
 Bharatiya Vidyabhavan  
 Sardar Patel Institute of Technology  
 Munshi Nagar, Andheri (W),  
 Mumbai-400 058.

Date : 15-05-2019

From,

Dr. Sujata Kulkarni  
Electronics and Telecommunication Dept.  
Sardar Patel Institute of Technology, Andheri(W)

To,

The Principal,  
S.P.I.T.  
Andheri(w).

Subject: Approval for Examine Patent at Indian Patent Office

Respected Madam,

I wish to file patent at Indian patent office. The patent is developed at SPIT Laboratory by the student group under my guidance. I understand, once the patent is commercialized then 50% rights would be with the Institute and the remaining 50% rights would be shared between applicants/inventors.

The details of the patent is as follows:

Title of Patent : Solar Power Based Self Cleaning Toilet.

Name of Applicant : Dr. Sujata Kulkarni

Name of Inventor : Divit Karmiani, Aastha Shah, Dharini Mehata

I kindly request you to approve and sanction the patent Examining fees of Rs 4500/- for the same  
I agree that if approved, the requested amount would be deducted from my paper publication amount for two year window.

Kindly do the needful.

Thanks and regards,

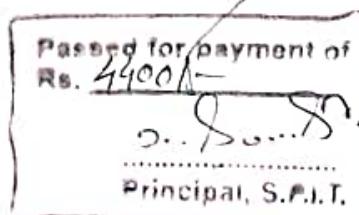
Yours Faithfully,

Dr.Sujata Kulkarni  
(Applicant)

Dr. Sujata Kulkarni  
IEDC Co-ordinator

Dr. Y. S. Rao  
Dean R & D

Dr. Prachi Gharpure  
Principal



PATENT OFFICE  
INTELLECTUAL PROPERTY BUILDING  
S.M. Road, Antop Hill, Mumbai-400 037  
Tel No. (091)(022) 24137701, 24141026 FAX No. 02 24130387  
E-mail: mumbai-patent@nic.in  
Web Site : www.ipindia.gov.in



Date/Time : 2019/08/09 12:08:23  
Agent Number:

Docket NO : 42131  
To  
KULKARNI, SUJATA AND OTHERS  
C 503 AND 504, ABHIMANYU, N.L. COMPLEX, DAHISAR (E), MUMBAI-400068, MAHARASHTRA, INDIA.

Sr. No.	CBR Number	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid	Amount Computed
1	17510	R20192024672	201921015226	---	4400	4400
Total Amount					4400	4400

Received a sum of Rs. 4400 (Rupees Four Thousand Four Hundred only) as under

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Cash	---	---	---	4400

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*S. Bhavani*  
Bharatiya Vidya Bhavan's  
Sardar Patel Institute of Technology  
Munshi Nagar, Andheri (W),  
Mumbai-400 058



Ganesh More &lt;ganesh.more@spit.ac.in&gt;

**Fwd: Filing Receipt (CBR) for Docket Number:44107 Docket Date(DD/MM/YYYY): 2021-08-18 And Mail Reference Number : PATRECSPCBR-5**

2 messages

Sheetal Chaudhari &lt;sheetal\_chaudhari@spit.ac.in&gt;

Wed, Aug 18, 2021 at 10:41 PM

To: ganesh.more@spit.ac.in

Cc: "Dr. B. N. Chaudhari" &lt;bnc@spit.ac.in&gt;, Pallavi More &lt;pallavi\_more@spit.ac.in&gt;, Prasenjit Bhavathankar &lt;p\_bhavathankar@spit.ac.in&gt;

Dear Ganesh,

PFA the receipt of payment done for patent " OFFLINE ATTENDANCE COLLECTION USING BLUETOOTH MESH NETWORKS AND PROXIMITY DETECTION".

I have paid cash for the same.

Patent fees 4500 Rs.,

Travelling 550 Rs.,

Documentation charge (Zerox, print out etc) 130 Rs

Total 5180 Rs. only

PFA Patent bill receipt.

I request to reimburse the fees.

Regards,

Sheetal Chaudhari,

Asst. Professor, IT Department,

SPIT.

----- Forwarded message -----

From: Om Shah &lt;om.shah@spit.ac.in&gt;

Date: Wed, Aug 18, 2021 at 4:02 PM

Subject: Fwd: Filing Receipt (CBR) for Docket Number:44107 Docket Date(DD/MM/YYYY): 2021-08-18 And Mail Reference Number : PATRECSPCBR-5

To: Utkarsh Jain &lt;utkarsh.jain@spit.ac.in&gt;, &lt;harshkumar.kothari@spit.ac.in&gt;, Sheetal Chaudhari &lt;sheetal\_chaudhari@spit.ac.in&gt;, Swathy Nair &lt;swathy.nair@spit.ac.in&gt;

----- Forwarded message -----

From: &lt;noreply\_ipo@gov.in&gt;

Date: Wed, Aug 18, 2021, 3:27 PM

Subject: Filing Receipt (CBR) for Docket Number:44107 Docket Date(DD/MM/YYYY): 2021-08-18 And Mail Reference Number : PATRECSPCBR-5

To: &lt;om.shah@spit.ac.in&gt;

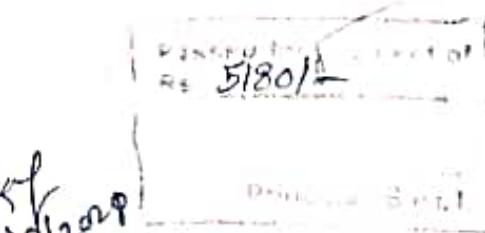
Cc: &lt;systemadmin\_ipo@nic.in&gt;

Dear Sir / Madam,

The Filing Receipt (CBR) for the following has been issued,

Docket Number	Docket Date (DD/MM/YYYY)	Applicant/Agent Address
44107	2021-08-18	OM SHAH; SWATHY NAIR, UTKARSH JAIN, SHEETAL CHAUDHARI SARDAR PATEL INSTITUTE OF TECHNOLOGY, BHAVAN'S CAMPUS, ANDHERI (W), MUMBAI-400 058, MAHARASHTRA, INDIA.

To view the receipt kindly click here.



21/9/2021

Gm  
11/9/21

Bharat Bhawan  
Principal  
Sardar Patel Institute of Technology  
Nagar, Andheri (W),  
Mumbai-400 058.

\* Please do not reply to this e-mail as it is a system generated e-mail.

Regards,  
Indian Patent Office

**Disclaimer:**

The information displayed in the e-mail is dynamically retrieved and is under testing, therefore the information retrieved by this system is not valid for any legal proceedings under the Patents Act 1970. In case of any discrepancy you may contact the appropriate Patent Office or send your comments to following email IDs:

Patent Office, Kolkata: kolkata-patent@nic.in; Patent Office, Delhi: delhi-patent@nic.in  
Patent Office, Chennai: chennai-patent@nic.in; Patent Office, Mumbai: mumbai-patent@nic.in

 **PATENT RECEIPT.html**  
11K

Ganesh More <ganesh.more@spit.ac.in>  
To: Sheetal Chaudhari <sheetal\_chaudhari@spit.ac.in>  
Cc: "Dr. B. N. Chaudhari" <bnc@spit.ac.in>, Pallavi More <pallavi\_more@spit.ac.in>, Prasenjit Bhavathankar <p\_bhavathankar@spit.ac.in>

Thu, Aug 19, 2021 at 11:32 AM

Dear Madam,

Please take approval of HOD & Principal sir & then forward this mail to me for further Reimbursement Process.

Regards  
Ganesh  
[Quoted text hidden]



*Sheetal*  
Principal  
Bharatiya Vidyavidyalaya  
Sardar Patel Institute of Technology  
Munshi Nagar, Andheri (W),  
Mumbai - 400 058.

header

Docket Number:44107

To,

OM SHAH; SWATHY NAIR; UTKARSH JAIN; HARSHIKUMAR KOTHARI & SHEETAL CHAUDHARI  
SARDAR PATEL INSTITUTE OF TECHNOLOGY, BHAVAN'S CAMPUS, ANDHERI (W), MUMBAI-400 058, MAHARASHTRA,  
INDIA.

Date/Time : 18/08/2021  
Agent Number:

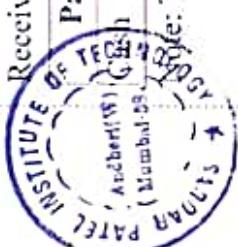
Sr No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	18783	ORDINARY APPLICATION	202121037428	"OFFLINE ATTENDANCE COLLECTION USING BLUETOOTH MESH NETWORKS AND PROXIMITY DETECTION"	1750
2		E-2/1296/2021-MUM	202121037428	Form2	0
3		E-3/12570/2021-MUM	202121037428	Form3	0
4		E-5/1311/2021-MUM	202121037428	Form5	0
5	18783	E-12/1365/2021-MUM	202121037428	Form9	2750
Total :					4500

Received a sum of Rs. 4500 (Rupees Four Thousand Five Hundred only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
---	---	---	---	4500

Note: This is electronically generated receipt hence no signature required.

Print CBR

  
Sardar Patel Institute of Technology  
Munshi Nagar, Andheri (W),  
Mumbai-400 058.



Ganesh More <ganesh.more@spit.ac.in>

## Fwd: Permission to apply for filing a patent and get its fees reimbursement

3 messages

**Sheetal Chaudhari** <sheetal\_chaudhari@spit.ac.in>

Thu, Aug 19, 2021 at 11:36 AM

To: ganesh.more@spit.ac.in

----- Forwarded message -----

From: **Sheetal Chaudhari** <sheetal\_chaudhari@spit.ac.in>

Date: Sat, May 1, 2021 at 7:00 PM

Subject: Permission to apply for filing a patent and get its fees reimbursement

To: Dr. B. N. Chaudhari <bnc@spit.ac.in>

Cc: Prasenjit Bhavathankar <p\_bhavathankar@spit.ac.in>

Dear sir,

Myself, Sheetal Chaudhari, Assistant Professor, IT department.

Sir, TEIT students namely Utkarsh Jain, Harshkumar Kothari, Swathy Nair and Om Shah under my guidance want to file a patent named " Offline Attendance Collection using Bluetooth Mesh Networks and Proximity Detection".

We have developed a software and written the patent specification for it.

I am writing this mail to you seeking permission to go ahead with the patent application and reimbursement of its processing fees Rs 4800/- only.

So kindly permit us.

Regards

Sheetal Chaudhari

**Sheetal Chaudhari** <sheetal\_chaudhari@spit.ac.in>

Thu, Aug 19, 2021 at 11:40 AM

To: ganesh.more@spit.ac.in

----- Forwarded message -----

From: **Dr. B. N. Chaudhari** <bnc@spit.ac.in>

Date: Sun, May 2, 2021 at 9:30 AM

Subject: Re: Permission to apply for filing a patent and get its fees reimbursement

To: Sheetal Chaudhari <sheetal\_chaudhari@spit.ac.in>

Cc: Prasenjit Bhavathankar <p\_bhavathankar@spit.ac.in>

Permitted

[Quoted text hidden]

**Prasenjit Bhavathankar** <p\_bhavathankar@spit.ac.in>  
To: Ganesh More <ganesh.more@spit.ac.in>

Dear Ganesh,

Prof. Sheetal Chaudhari has taken the permission to file patent application and reimbursement of its processing fees. It is approved



*Sheetal*  
Principal  
Bharati Vidyavihar  
Sardar Patel Institute of Technology  
Munshi Nagar, Andheri (W)  
Mumbai-400 058.  
30-08-2021, 16:24

2023 RELEASE UNDER E.O. 14176

*Review of Changes from the 1990 Model Act*

卷之三

For example, a well-known method of solving systems of equations is the substitution method.



# IPR and PATENT

Event Name : Patent Drafting Workshop

Speaker : Prof. Kiran Talele, Abhishek Pandurangi and Parvez Kudroli of Khuran & Khurana LLP Mumbai on  
July 30-31, 2018

A Patent Drafting Workshop was conducted at SPIT, providing a platform for participants to gain practical insights into the process of drafting patents. The workshop, led by the experienced facilitator Parvez Kudroli, aimed to equip participants with the essential skills and knowledge necessary for effective patent drafting.

## Workshop Agenda:

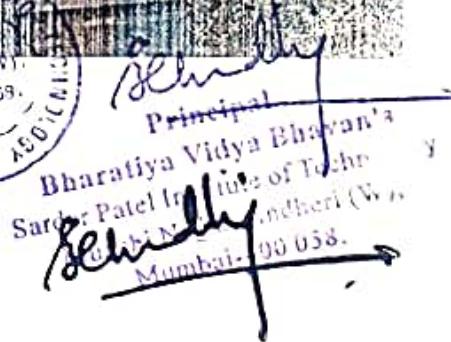
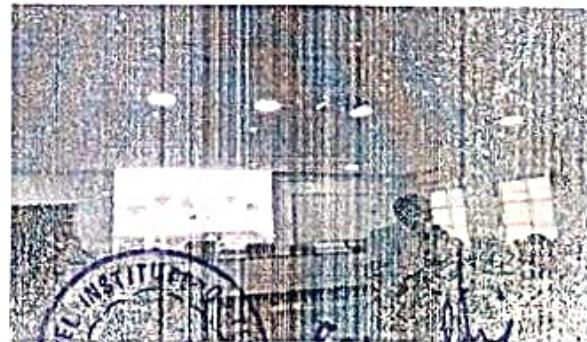
**Introduction to Patent Drafting:** The workshop began with a comprehensive introduction to the concept of patent drafting. Mr Kudroli highlighted the importance of patents in protecting inventions and fostering innovation. Participants were given an overview of the key components of a patent document.

**Understanding Patentable Subject Matter:** The facilitator delved into the criteria for patentability, emphasizing the importance of novelty, non-obviousness, and industrial applicability. Practical examples were provided to illustrate how to identify patentable subject matter.

**Components of a Patent Application:** Participants were guided through the various sections of a patent application, including the title, abstract, background, summary of the invention, detailed description, claims, and drawings. Special attention was given to the intricacies of drafting clear and concise patent claims.

**Drafting Techniques and Strategies:** Mr Abhishek shared valuable drafting techniques and strategies to enhance the clarity and effectiveness of a patent application. Participants were encouraged to consider the perspective of patent examiners and to use precise language in their drafts.

The Patent Drafting Workshop concluded with a recap of key takeaways and a Q&A session where participants could seek clarification on any aspects of the patent drafting process. Prof. Talele expressed gratitude to the participants for their active engagement and encouraged them to apply the skills acquired in their future endeavors.

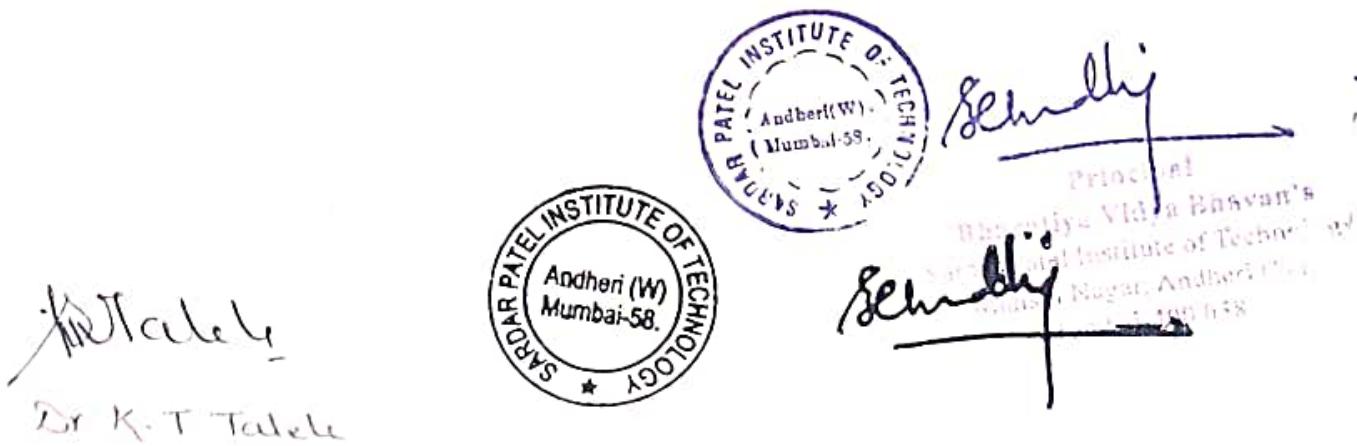
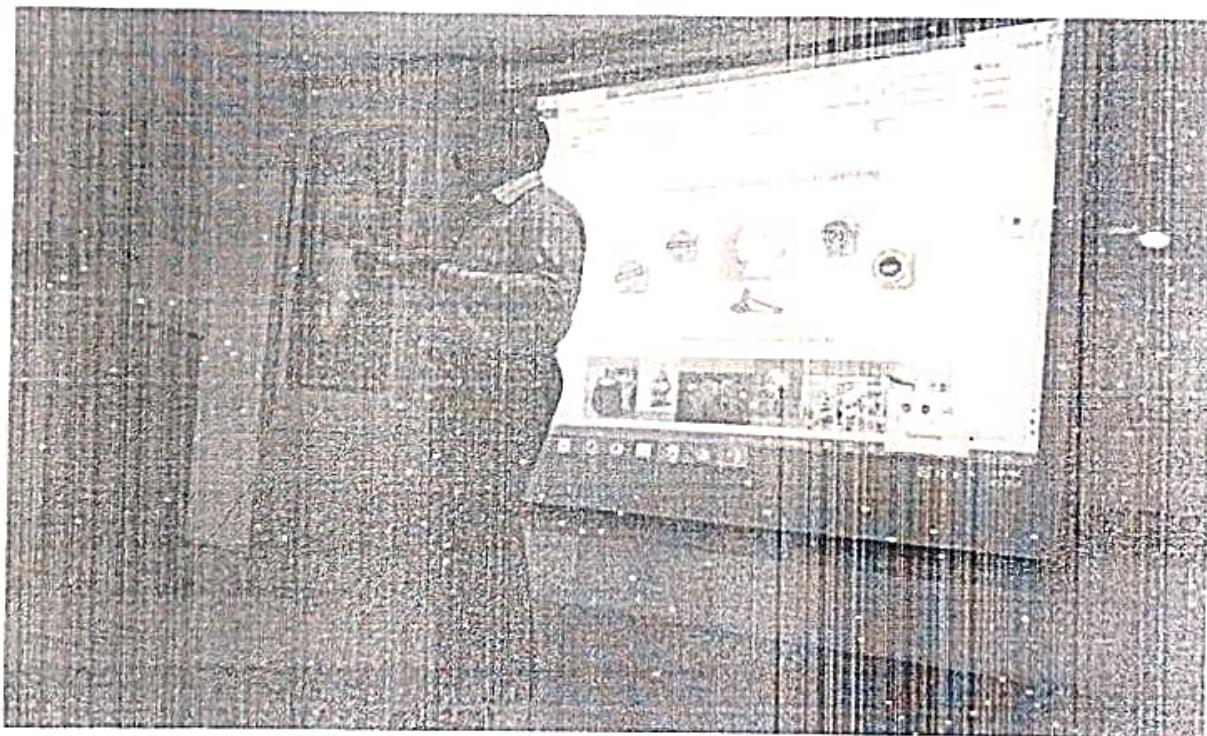


  
Dr. Kiran Talele

## # IPR & PATENT .

Event name : Session on Introduction to Patents and Patent Searching  
Speaker : Parvez Kudrolli  
Date : 1-8-2018

Mr. Parvez conducted a session on introduction to Patents and Patent Prior Art Search at SPIT in 1-8-2018. He discussed What is Patent from Intellectual point of view and Document point of view. He demonstrated the Patent search process. More than 50 participants attended the session and it was very well attended and appreciated event.

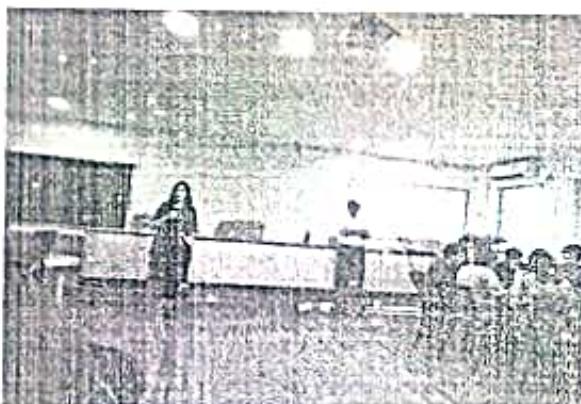


Event Name : Session on IPR-TradeMark and Industrial Design  
Speaker : Veena Ajay Lala  
Date : June 12, 2019

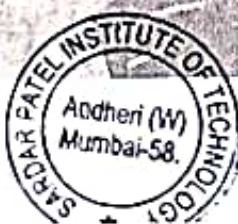
Ms Veena Lala delivered a talk on IPR – Trademark and Industrial Design for final year students of Comp, Electronics, IT and EXTC Engineering students. The talk on Intellectual Property Rights focusing on Trademark and Industrial Design was held at SPIT on June 12, 2019. The distinguished speaker, Ms Veena Lala provided a comprehensive overview of the significance of trademarks and industrial designs in the realm of intellectual property. Final year students of Comp, Electronics, IT and EXTC Engineering students attended the session.

The speaker initiated the talk by defining trademarks as distinctive symbols, words, or phrases that serve to identify and differentiate the source of goods or services. The audience gained insight into the elements of trademarks, which include words, logos, symbols, and even sounds. Emphasis was placed on the importance of registering trademarks for enhanced legal protection.

In conclusion, Trademarks and Industrial Designs stand as pillars in the realm of intellectual property rights, safeguarding innovation and promoting fair competition. As we navigate the dynamic landscape of business and technology, understanding the nuances of these protections becomes paramount. Let us champion the cause of creativity and innovation by upholding the principles of intellectual property rights.



Dr Kiran Talele



Shinde  
Principal  
Bhartiya Vidya Bhawan's  
Sapcar Patel Institute of Technology  
Andheri (W), Mumbai-58.



Event Name: Introduction to Intellectual Property Rights(IPR)

Speaker : Prof. Kiran Talele and Mr Nayan J. Rawal

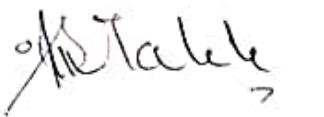
Venue: Online (Google Meet)

Date: 19th December 2020.

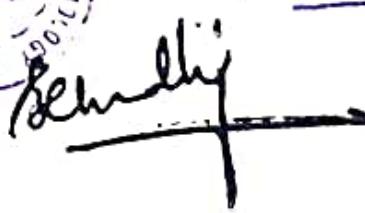
The Institute Innovation Council (IIC) S.P.I.T. organized a webinar on Introduction to Intellectual Property Rights (IPR) on 19th December 2020. The speaker invited was Prof. Kiran Talele who is an Associate Professor in the Electronics Engineering Department of Sardar Patel Institute of Technology. He is also the Chief Finance Officer & Head of Academic Relations, Sardar Patel Technology Business Incubator, Incharge of Innovation & Entrepreneurship Development Centre supported by Department of Science & Technology, Government of India

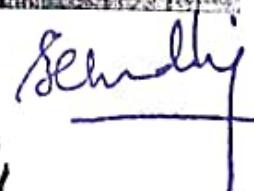
He spoke about the different acts which were passed by the government Of India over the years of patenting. Through an example, he explained hypothetically if we wanted to patent that particular product how we go about it. He also threw light on the places where patenting happens and the charges of getting one's innovation patent. Similarly, he also shared what is copyright and the process and products associated with it. The viewers remained engaged from the start till the end and gained some valuable information through this webinar. They understood that in the future as entrepreneurs, if they innovate something new, what steps they need to follow to protect it through Intellectual Property Rights.



  
Dr. Kiran Talele



  
Mr. Nayan J. Rawal

  
Mr. Nayan J. Rawal

Event Name : Patent Drafting Workshop (Online)

Speaker : Prof.Kiran Talele and Nayan J. Rawal

Date March 18-22, 2021

Patent drafting workshop was conducted for the students of SPIT in an online mode.

Deliverables of the event can be summarized as follows.

Advantage of Patent Filing, How to read a patent document? Prior Art Search.

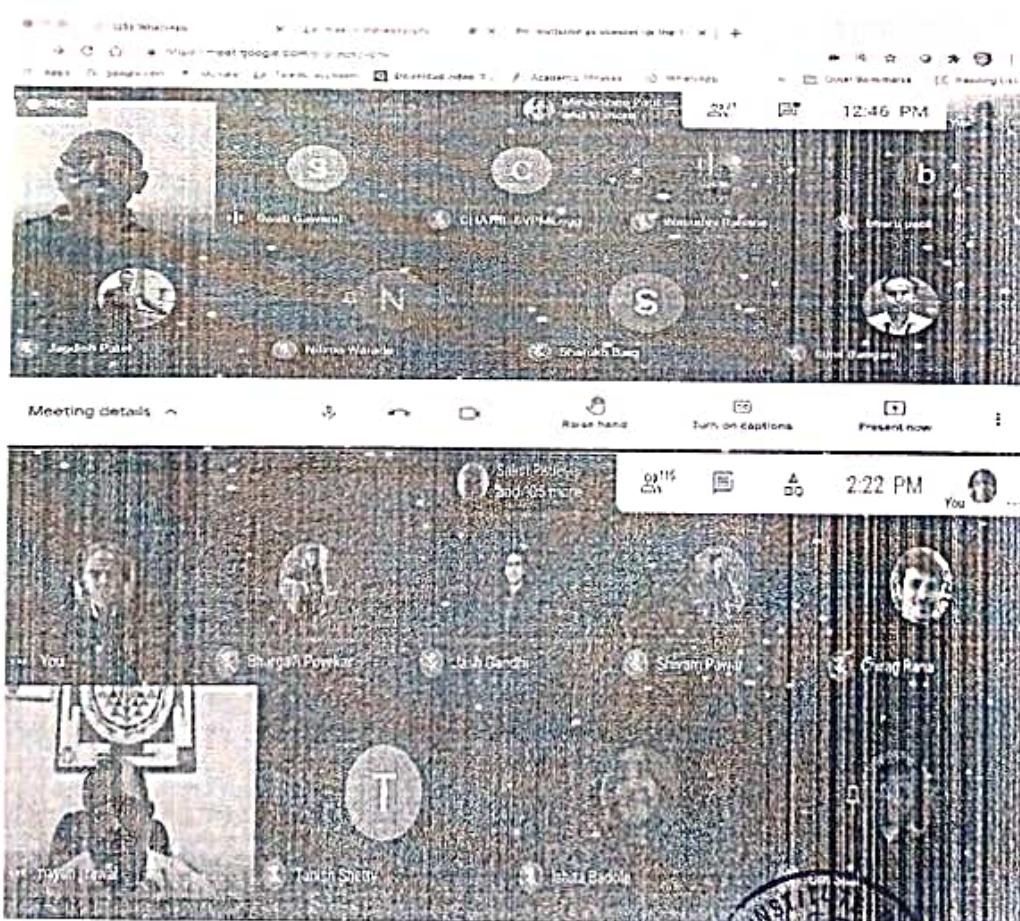
Anatomy of Patent and Procedure for patent filing.

Discussion on Patent Form-1,3,5,9,18 and form-2

No of Participants : 127

Outcome :

- 1) Quiz & Patent Drafting Activity
- 2) PO Attained



Meeting details ~



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*S. Talele*  
Dr. Kiran Talele  
Principal  
Sardar Patel Institute of Technology,  
Mumbai-400 058.

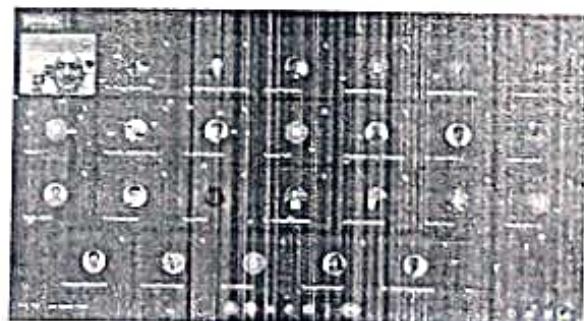


Event Name : SESSION on Invention to Innovation and IPR Creation

Speaker : Prof. Kiran Talele.

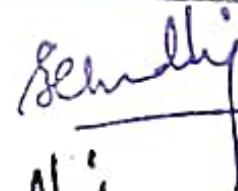
Saturday , 10th December 2022

Prof. Kiran Talele conducted session on Invention to Innovation and IPR Creation and focussed on technology entrepreneurship. Project, Product, and IPR Creation are all parts of invention. Along with business, startup, and commercialization, he also added innovation. An invention combined with a method and a market constitutes innovation. He described the stages of the innovation cycle. He enumerated crucial criteria for opportunity evaluation, including novelty, technical and financial viability, and market importance. He outlined the four primary categories of intellectual property and their respective importance, including trade secrets, patents, and trademarks.



  
Dr. Kiran Talele






## Sardar Patel Product Development Centre

Bharatiya Vidya Bhavans

Sardar Patel Institute of Technology

*Invent and Innovate*





## Vision And Mission

The vision and mission of this program revolves around the overall development of students in the sphere of innovation. The main aim is to instill a sense of creativity in sync with technical aspects. All in all, to harness invention and innovation.

## Objectives

1. To design customer-focused innovation
2. To develop and test hardware products
3. To develop skills for end to end product development





## Key Benefits

- 1. Opportunity to develop **Market significant** products
- 2. A structured process for **product development**
- 3. Enhancement of creativity and manage **intellectual capital**
- 4. **End-user** focused innovation research
- 5. **Designer's** role in achieving **product success**
- 6. **Customer-focused** innovation and market research
- 7. Skill development for **end to end product development**

*Senthil*  
Principal

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Sardar Patel Institute of Technology  
Munshi Nagar, Andheri (W),  
Mumbai-400 058.





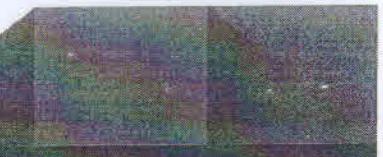
## Consultancy Expertise

### ● Power Quality Analysis and Mitigation

- Dedicated Instruments to study harmonics and Power Factor Profile at Industrial Installation
- Availability of Experts to analyse Power Quality data and to submit report as per IEEE 519/2014 Harmonic and PQ Standards
- Expertise in installation of PQ Mitigation Equipments like Active Power Filters, Broadband Passive Filters, Neutral Balancing Units, APFC Panels, TSCs and TSR Panels etc
- Expertise in devising specific PQ mitigation strategy for Power Factor Penalty saving and Incentives as per CERC New Delhi and Other State Agencies

*Sundip*

Principal  
Bharatya Vidya Bhawan's  
Sardar Patel Institute of Technol  
Munshi Nagar, Andheri (W),  
Mumbai-400 058.



✓ & PS - 19070

## ● Renewable Energy Sector

- Expertise in Handling live projects in PV installations and necessary Equipments
- Expertise in Solar Thermal Live Projects
- Solar Water Pumping Solutions
- PV based BLDC Motor drives, Induction Motor Drives and PMSM OR Universal PV based motor drives for different applications
- Expertise on Solar street lighting and CCMS for Smart City Projects and PQ mitigation with modern mass LED installations at Public Places
- Expertise in the field of Battery Management Technologies and Systems for EV and Other Applications
- Battery Chargers for EVs
- Fuel Cell based Technology and Research



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Sarojini Naidu Institute of Technology  
Munshi Nagar, Andheri (W),  
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## • Industrial Heating

- Expertise in Industrial Induction based Heating Systems
- Expertise in Induction Furnaces for different Industrial Applications such as Soldering, brazing, shrink-fitting, Annealing, Tempering, Hardening, melting etc with Modern IGBT based and Sic based HF Inverters and their Embedded Control

*Sundhi*  
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## ● Embedded Control and Automation

- PID Controller for Process Automation
- Real Time Applications
- Hardware in Loop Applications
- Digital Controller and System Design
- IOT and Communications
- Wireless and Wired Communication Solutions

*S. Bhambhani*  
Principal  
Bharatiya Vidya Bhawan's  
Sardar Patel Institute of Technology  
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Mumbai-400 058.





## ● Electronic Design and Automation

- Schematic and PCB Designs
- PCB Layouting and Manufacturing guidelines
- Computer Simulation of Electronics and Power Electronic Circuits and Systems
- Computer Simulation of Power System Problems
- Hardware in Loop and FPGA simulations

*Bhavilji*  
Principal  
Bharatiya Vidya Bhawan's  
Sardar Patel Institute of Technology  
Munshi Nagar, Andheri (W),  
Mumbai-400 058.

Andheri (W)  
Mumbai-58.



## List of Consultancy Projects with different Industries (2018-19)

### *Development of Software Applications to Maintain Service Calls and manage the service tickets/tokens*

**Company :**Suyog Telematics Mumbai

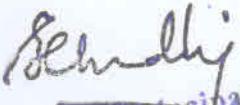
**Experts:** Dr. Rajendra Sawant (PI), Dr. Y. S. Rao (co-PI)

**Start Date :** 30<sup>th</sup> August 2018

**Duration :** Two Years

**Project Amount :**Rs. 100,000/-

**Project Description :** Suyog Telematics Ltd. is an infrastructure service provider company for Telecom Service provider in India which is currently looking for development of Mobile Application to monitor maintenance activities through mobile application to their 1800 cell sites. In this context through this MOU, SPIT will develop Mobile application for servicing maintenance calls, opening and closing of maintenance service tickets and keeping track with all the databases stored in cloud server to track history and record. This application also needs to develop a maintenance-website and two mobile applications linked to that one for service people and another for an administrator.

  
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Sardar Patel Institute of Technology  
Nagar, Andheri (W), Mumbai-58





## ***Design and Development of a 24V/15A DC Motor PWM drive for PMDC OR shunt DC Motor***

**Company :** Hardcarb technologies Pvt Ltd

**Experts:** Dr. Rajendra Sawant (PI), Dr. Y. S. Rao (co-PI), Dr. Rajendra Sutar (co-pi)

**Start Date:** 05<sup>th</sup> Dec. 2018

**Duration :** Four Months

**Project Amount :** Rs. 185,000/-

**Project Description :** Design and development of a 24V/15A DC Motor PWM drive for PMDC OR Shunt DC Motor with four-quadrant operation features with a option of dynamic braking with all the necessary annunciation, communication and protection as per industry standards. The proposed DC Drive is air cooled, high conversion efficiency, safety, protection, temp, shock and vibration, as per adequate standard (CE and ISI).

This converter shall have output short circuit, over temperature, over and under voltage protection with relevant speed and torque feedback.

*Sachin*  
Principal

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Mumbai-400 058.





## *Automotive Battery Management System*

**Company :**Zeuva Autmotive Pvt Ltd

**Experts:** Dr. Rajendra Sawant (PI), Dr. Y. S. Rao (co-PI)

**Start Date:** 29<sup>th</sup> Nov. 2018

**Duration :**Six Months

**Project Amount :**Rs. 100,500/-

**Project Description :** Zeuva is currently developing a Battery Management Systems for a Lithium Ion battery pack compatible with a standard electric two / three wheeler currently plying in India. Zeuva uses Atmel's platform for its embedded system development.

SPIT Experts shall provide expertise for design, development and Testing of Electronic Battery Management System and Power Distribution Unit for Zeuva Automative for their first product for 100Ah Battery System for scooters.

  
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## **Design and Development of Battery Charging System of 4.5 kW capacity**

**Company :**GENERAL AUTO ELECTRIC CORPORATION

**Experts:** Dr. Rajendra Sawant (PI), Dr. Y. S. Rao (Co-PI), Prof. Govind Haldankar (Co-PI)

**Start Date:**04<sup>th</sup> January 2019

**Duration :** Four Months

**Project Amount :**Rs. 150,000/-

**Project Description :** GAEC is currently looking for the development of a Battery Charging Systems compatible with Railway's requirements and specifications. The present work is titled as "Design, implementation and testing of a DC-DC converter for ancillaries and charging battery." The proposed DC-DC converter is air cooled/naturally cooled, high conversion efficiency, safety, protection, temp, shock and vibration, as per standards (IEC/EN;UIC/AAR; and IS). This converter shall have output short circuit, over temperature, over and under voltage protection.

A handwritten signature in blue ink, which appears to read "Bhaveshji", is placed above a printed title.

Principal

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Sardar Patel Institute of Technology  
Munshi Nagar, Andheri (W),  
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## *Design and development of Digital controller for Induction Casting Machine*

**Company :**Riddhi-Heatron

**Experts:** Dr. Rajendra Sawant (PI), Dr. Y. S. Rao (Co-PI), Prof. Govind Haldankar (Co-PI)

**Start Date:**16<sup>th</sup> Jan 2019

**Duration :**Four Months

**Project Amount :**Rs. 100,000/-

**Project Description:** RIDDHI HEATRON is currently looking for the Design and development of a digital controller for induction casting application. The controller should provide auto-frequency tracking features with different coils and the prototype controller PCB must be tested successfully in the field at the Machine Capacity of 12kW with IGBT based High frequency Inverter

  
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## ***Development of Universal Controller for Solar Water Pump Motors ranging from 3HP to 10HP***

**Company :**Sileaf Technologies Pvt Ltd., Pune

**Experts:** Dr. Rajendra Sawant (PI), Dr. Y. S. Rao (Co-PI), Prof. Rajendra Suthar (Co-PI)

**Start Date:** 22<sup>nd</sup> Feb. 2019 **Duration :**Four Months

**Project Amount :**Rs. 200,000/-

**Project Description :** Development of Universal Controller to work for water pump sets of capacities ranging from 3 HP to 10 HP and for other types of motors used in the agriculture equipment. The development consists of Development of appropriate models of Universal controllers as required to work with motors of capacities from 3 HP to 10 HP. Universal controllers described above to work with submersible and surface water pump sets of the range described above. Development of above said products mean the complete development work, lab testing, field testing, eligibility to pass the requirements of required respective certifications, commercial prototype, production level designs, defining production process and standards, production and quality manuals. Development work also includes technical support for the period of 5 years from the date of dispatch of first batch of respective products.





## Development Cost of SP-PDC

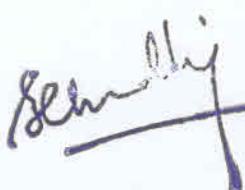
The cost of project is *60 Lakh*

### 1) Capital Expenditure :

*Infrastructure Development : 18 Lakh*

*Equipment : 29 Lakh*

### 2) Operational Expenditure : *13 Lakh*

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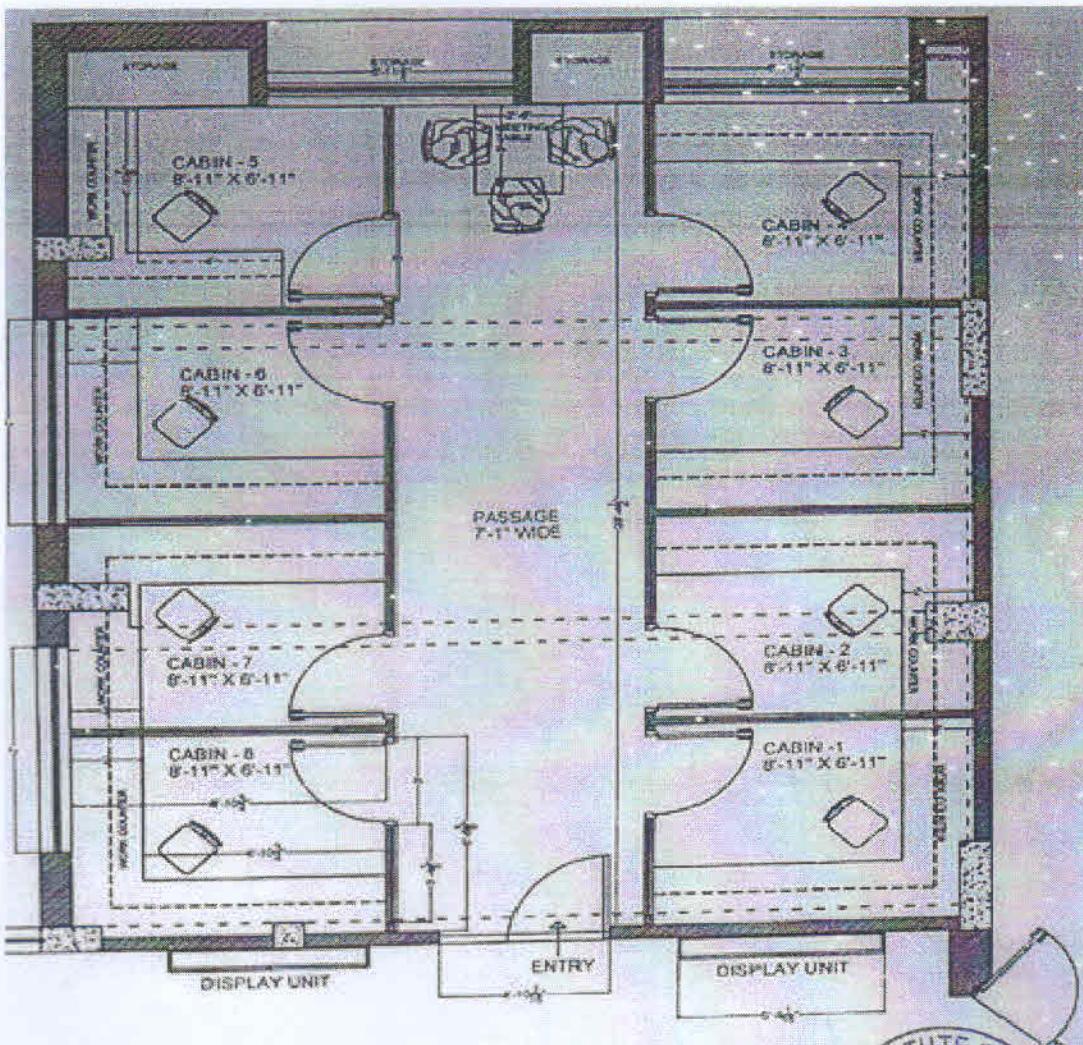
Principal

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## Floor Plan



*Sherali*  
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Sardar Patel Institute of Technology  
Mumbai - 400 058, Andheri (W)  
Phone No. 900 058





## Contact Details

**1. Dr. Prachi Gharpure, Principal.**

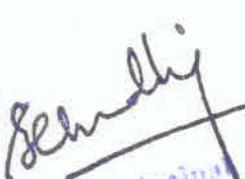
[prachi\\_gharpure@spit.ac.in](mailto:prachi_gharpure@spit.ac.in)

**2. Dr. Y.S Rao, Vice-Principal and Dean R&D.**

[ysrao@spit.ac.in](mailto:ysrao@spit.ac.in)

**3. Prof. K.T. Talele. Faculty Electronics Dept.**

[kiran.talele@spit.ac.in](mailto:kiran.talele@spit.ac.in)

  
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Mumbai-400 058.



Bharatiya Vidya Bhavan's

Sardar Patel Institute of Technology  
Andheri(W), Mumbai-400058 (Autonomous College Affiliated to University of Mumbai)

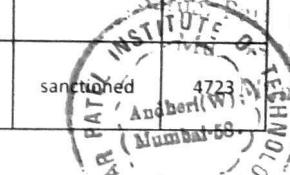
**Research And Development Committee**  
**List of students for Reimbursement of Technical Paper Publication Fees 2022-23**

Sr No	UCID	Type	Dept	Applicant Name	Guide Name	Paper Title	Event Date	Conference Name	Amount Requested	Remark	Sanctioned Amount
1	2019450009	PG	MCA	Shristi Bisht	Prof. Harshil Kanakia   Prof. Pallavi Thakur	Music emotion prediction based on Hybrid Approach combining Lyrical and Acoustic Approaches	2022-05-25	IEEE ICICCS 2022	6250	Sanctioned	5000
2		PhD	MCA	Mayura Rupesh Nagar	Prof. Pooja Raundale	A Systematic Literature Review: Role of AI Algorithms for Automated Diagnosis of Diabetic Cardiac Autonomic Neuropathy [DCAN]	2022-03-25	9th International Conference on "Computing for Sustainable Global Development", 23rd - 25th March 2022 Bharati Vidyapeeth's Institute of Computer Applications and Management (BVICAM), New Delhi (INDIA)	9000	Sanctioned	9000
3	2019450054	PG	MCA	Akash Balwant Singh	Prof. Nikhita Mangaonkar	Perception of Energy Conservation in Maharashtra Using Techniques to Conserve Energy by Machine Learning	2022-08-25	SoCTA 2022	5000	sanctioned	5000
4	2019450017   2019450055	PG	MCA	Abhishek Gupta   Pranav Dinesh Soneji	Prof. Nikhita Mangaonkar	Robotic Process Automation powered admission Management System	2022-08-25	ICICIT 2022	9500	sanctioned	5000
5	2020510069   2020510001   2020510020	PG	MCA	Prajwal Warkhade   Jaikishan Bagul   Tanish Gangwal	Prof. Nikhita Mangaonkar	Arima vs Lstm Algorithm – A Comparative Study Based on Stock Market Prediction	2022-12-02	(ICAST)-2022	5000	sanctioned	5000
6	2019450005   2019450010	PG	MCA	Siddharth Premraj Bhalerao   Shivam Ramesh Chaubey	Prof. Nikhita Mangaonkar	AutoKYC: Automation of Identity establishment and authentication in KYC process using Machine Learning	2022-08-26	ASIANCON 2022	8393	sanctioned	5000
7	2019140013   2019140014   2019140015	UG	IT	Mohsin Chougale   Larren Dsouza   Limark Dcunha	Prof. Rupali Sawant	Integration of Content-Based Recommendation System with 360° video player for Virtual Tourism	2022-10-08	Global Conference for Advancement in Technology (GCAT)	8500	sanctioned	5000
8	2019140030   2019140020	UG	IT	Jai Prasanna Joshi   Parshav Gandhi	Prof. Rupali Sawant	Sign Language Certification Platform with Action Recognition using LSTM Neural Networks	2022-06-23	IEEE Xplore	5000	sanctioned	5000
9	2019140018   2019140030   2019120017   2019120052	UG	IT	Kaustubh Funde   Jai Joshi   Jai Damani   Venkata Revanth Jyothula	Prof. Renuka Pawar	Tropical Cyclone Intensity Classification Using Convolutional Neural Networks On Satellite Imagery	2022-09-24	2022 International Conference on Industry 4.0 Technology (I4Tech)	6490	sanctioned	5000

*S. Shinde*  
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Andheri(W), Mumbai-58  
Mumbai-400 058.

Sr No	UCID	Type	Dept	Applicant Name	Guide Name	paper title	Event Date	conference Name	Amount Requested	Remark	Sanctioned Amount
10	2019140018  2019140030  2019140010  2019140048	UG	IT	Kaustubh Funde Jai Joshi Karen Castelino Pranjal Patil	Prof. Nikahat Mulla	Cataract Detection by Leveraging VGG-19 Classification Model on Retinal Images	2022-10-05	THE 13TH INTERNATIONAL CONFERENCE ON COMPUTING, COMMUNICATION AND NETWORKING TECHNOLOGIES (ICCCNT)	9100	sanctioned	5000
11	2018140055  2018140059  2018140062	UG	IT	Meet Shah Krish Sukhani Ankit Vishwakarma	Prof. Nikahat Mulla Prof. Renuka Pawar	ResMintage : Leveraging Blockchain Technology to Share Hardware Resources	2022-04-21	2nd International Conference on Advances in Electrical, Computing, Communications and Sustainable Technologies	6500	sanctioned	5000
12	2018140036  2018140048  2018140053	UG	IT	Yash Mehta Bhargav Rao Jay Shah	Prof. Swapnali Kurhade Dr. Prasenjit Bhavathankar	Predicting Bankruptcy and Suggesting Improvements on Financial Attributes using Machine Learning Models	2022-08-18	International Conference on Electronics and Sustainable Communication Systems	6000	sanctioned	5000
13	2019140042  2019140053  2019140047	UG	IT	Mihir Nikam Ameya Ranade Rushil Patel	Prof. Prachi Dalvi Prof. Aarti Karande	Explainable Approach for Species Identification using LIME	2022-12-08	IEEE Bombay Section Signature Conference 2022	8260	sanctioned	5000
14	2018140031  2018140028	UG	IT	Harshkumar Kothari Utkarsh Jain	Prof. Kailas K. Devadkar	Multimodal Context Extraction for Virtual Meetings	2022-09-08	2022 Second International Conference on Computer Science, Engineering and Applications (ICCSA)	6000	sanctioned	5000
15	2019240068  2019240070	UG	IT	Swathy Dhanesh Nair Om Viren Shah	Prof. Kailas K. Devadkar	3DMRRC: 3D Mesh Reconstruction using Ray Casting for stationary subjects	2022-08-27	2022 IEEE 2ND Asian Conference on Innovation in Technology	8393.52	sanctioned	5000
16	2019140024  2019140025	UG	IT	Amogh Godbole Vishal Gondke	Prof. Kailas K. Devadkar	Hand Gesture Identification and Voice Command Based Hardware Reduction	2022-12-16	IEEE PuneCon 2022	5000	sanctioned	5000
17	2018140042	UG	IT	Harsh Sanjay Pandita	Dr. Prasenjit Bhavathankar Prof. Ananthalakshmi Venkatesh	Garbage classification using Machine learning to aid Recycling	2022-05-27	INCET (IEEE)	8000	sanctioned	5000
18	2019140047  2019140051	UG	IT	Rushil Patel Kristen Pereira Joy Almeida	Prof. Rupali Sawant Prof. Rupali Sawant	Voice Assisted Image Captioning and VQA For Visually Challenged Individuals	2022-11-24	INDICON 2022	10290	sanctioned	5000
19	2018140035	UG	IT	Atharva Malhar	Prof. Swapnali Kurhade Prof. Aparna Halbe	Deep Learning based Answering Questions using T5 and Structured Question Generation System	2022-05-25	ICICCS 2022	6250	sanctioned	5000
20	2018140038  2018140014  2018140050	UG	IT	Krish Meshram Shreyas Darade Sarvesh Satpute	Prof. Sheetal Chaudhari Prof. Sheetal Chaudhari	Dynamic Traffic Scheduling Using Emergency Vehicle Detection	2022-11-26	2022 International Conference on Futuristic Technologies(INCOFT)	8000	sanctioned	5000
21	2018140049  2018140058  2018140063	UG	IT	Tejas Rathod Atharva Shirode Parth Wanjari	Prof. Aparna Halbe Prof. Nikahat Mulla	Car Damage Detection and Assessment Using CNN	2022-02-12	Delhi Section Conference (DELCON), IEEE	4723	sanctioned	4723 Andheri (W) Mumbai-400 058.

  
 Principal  
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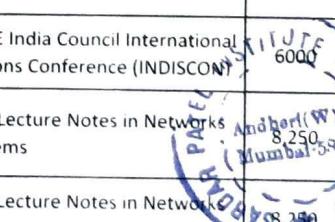
Sr No	UCID	Type	Dept	Applicant Name	Guide Name	paper title	Event Date	conference Name	Amount Requested	Remark	Sanctioned Amount
22	2018140002   2018140005   2018140016	UG	IT	Sanjana Addagarla   Ravi Agrawal   Deep Dodhiwala	Prof. Nikahat Mulla   Prof. Kaisar Katchi	Intelligent Call Prioritization using Speech Emotion Recognition	2022-07-05	3rd International Conference on Paradigms of Communication, Computing and Data Sciences (PCCDS 2022)	10030	sanctioned	5000
23	2011240072   2019240067   2014140011	UG	IT	Kiran Kadam   Kshitija Landge   Manswi Dhodi	Prof. Rupali Sawant	Fine Food Products Recommender using Sentiment Analysis based on Twitter and Amazon reviews	2022-12-01	7th IEEE International Conference on Recent Advances and Innovations in Engineering (7th IEEE ICRAIE 2022)	5500	not sanctioned, hardcopy not received	-
24	2018140044   2018140015   2018140029	UG	IT	Kaustubh Patil   Meet Dave   Rounak Jaiswal	Prof. Renuka Pawar	Monitoring Supply Chain of Pharmaceutical Drugs Using Blockchain	2022-02-13	IEEE DELCON	4723	sanctioned	4723
25	2018140019   2018140020   2018144023	UG	IT	Jash Gandhi   Parth Gandhi   Ayush Gosar	Prof. Varsha Hole	Natural Language Processing based Math Word Problem Solver and Synoptic Generator	2022-08-17	3rd International Conference on Electronics and Sustainable Communication Systems, ICESC 2022	6000	sanctioned	5000
26	2019140051   2019140044   2019140036	UG	IT	Kristen Pereira   Aman Parikh   Pranav Kumar	Prof. Varsha Hole   Prof. Varsha Hole	Multilingual Text-Based Image Search Using Multimodal Embeddings	2022-11-19	2022 IEEE 6th Conference on Information and Communication Technology (CICT)	7080	sanctioned	5000
27	2018140021   2018140018   2018140032	UG	IT	Pravesh Ganwani   Karan Gala   Rucha Kulkarni	Prof. Renuka Pawar   Prof. Kailas K. Devadkar	3DVARECNN: Region-based Convolutional Neural Network for Volumetric Rendering of Indoor Scenes	2022-06-24	2nd International Conference on Intelligent Technologies (CONIT 2022)	8200	sanctioned	5000
28	2018140003   2018140006   2018140036	UG	IT	Tanvi Aditya   Sagar Badlani   Sarthak Maniar	Prof. Kailas K. Devadkar	Educrypto: Transforming Education using Blockchain	2022-05-25	Intelligent Computing and Control System	6250	sanctioned	5000
29	2018140046	UG	IT	Madhur Rajadhyaksha	Dr. Prasenjit Bhavathankar	Music Generation with Bi-Directional Long Short Term Memory Neural Networks	2022-10-03	2022 13th International Conference on Computing Communication and Networking Technologies (ICCCNT)	7000	sanctioned	5000
30	2020401072	UG	IT	prachi mishra	Prof. Kailas K. Devadkar	AutiEase- Android application for ASD children	2023-01-24	International research journal of modernization in engineering technology & science	817.86	Not sanctioned, paid journal	-
31	2019140039	UG	IT	Jeenal Mehta	Dr. Prasenjit Bhavathankar	EfficientNet-B3 and Image Processing for Monkeypox Detection using Skin Lesion Images	2022-12-23	2022 International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON)	8000	Sanctioned	5000
32	2019140063   2019140067   2019140069	UG	IT	Aakash Sondagar   Aditya Waikar   Sarang Yogi	Prof. Aparna Halbe   Prof. Varsha Hole	Hyperspectral Image Classification using Spatial-Spectral WaveletCNN	2023-01-30	YMER	3000	Not sanctioned, paid journal	-
33	8850951315   2018140030   2018140027	UG	IT	Manasi Jadhav   Neha Kolambe   Shreya Jain	Dr. Prasenjit Bhavathankar	Detection of Mental Disorder on Social Platform	2022-02-12	7th International Conference on Computing in Engineering & Technology (ICCET 2022)	4000	sanctioned	4000
34	2019220009	PhD	EXTC	Karishma Sachin Raut	Dr. Sujata Kulkarni	Preprocessing Challenges for Real World Affect Recognition	07-09 Dec 2022	International Conference on Computational Intelligence Paradigms (CLIP-22)	27087	Sanctioned	6300
35	2019220009	PhD	EXTC	Karishma Sachin Raut	Dr. Sujata Kulkarni	Analysis on Affect Recognition Methods in the Wild	21-23 Dec 2022	IEEE International Conference on Interdisciplinary Approaches in Technology and Management for social Innovation (IATMSI-2022)	9775	Sanctioned	7006

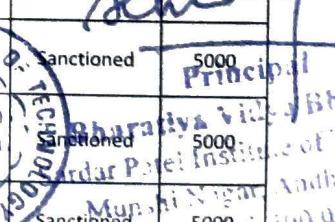
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Sardar Patel Institute of Technology  
Munshi Nagar, Andheri (W),  
Mumbai - 400 058.

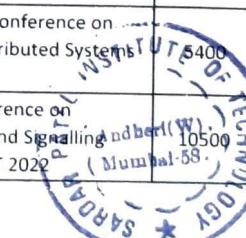
PATEL INSTITUTE OF TECHNOLOGY  
Munshi Nagar, Andheri (W), Mumbai - 400 058.

Sr No	UCID	Type	Dept	Applicant Name	Guide Name	paper title	Event Date	conference Name	Amount Requested	Remark	Sanctioned Amount
36	2019120047	UG	EXTC	Khushi Navin Patni	Dr. Reena Sonkusare	COVID-19 Radiography Using ConvNets	09-11 Nov 2022	2022 4th International Conference on Control Systems, Mathematical Modeling, Automation and Energy Efficiency (SUMMA), Lipetsk, Russian Federation		Sanctioned	5000
37	2019120017	UG	EXTC	Jai Damani	Anand Mane	Implementation of security system using Computer Vision and Temperature detection	21--07--2022	Intl. Conference on Intelligent Controller and Computing for Smart Power, Sreenidhi Inst. of Tech., Hyderabad.		Sanctioned	4000
38	2020210001	PG	EXTC	Komal Ajit Barge	Prof. Vijaya Kamble	A Prediction of Operating Systems Vulnerabilities using Machine Learning Algorithms	2022-06-30	"International Conference on Advanced Communication Control & Computing Technology" (ICACCCT' 22). SIMATS School of Engineering, Saveetha Institute of Medical & Technical Sciences, Chennai, Tamil Nadu,	9,500	Sanctioned	5000
39	2020210002	PG	EXTC	Yusha Bhabay	Prof. Anand Mane	Rice Diseases Pests and Nutritional Deficiency Classification using Convolutional Neural Network	2022-06-27	Advances in Computing, Control, and Telecommunication technologies (ACT 2022), Hyderabad	6,500	Not Sanctioned	0
40	2020210003	PG	EXTC	Mohammed Aftab Shaikh	Dr. Rajendra Sawant	Li-Fi based wireless communication through VLC (Visible light communication) for Navigation systems	2022-06-28	"International Conference on Advanced Communication Control & Computing Technology" (ICACCCT' 22). SIMATS School of Engineering, Saveetha Institute of Medical & Technical Sciences, Chennai, Tamil Nadu,	9,500	Sanctioned	5000
41	2020210004	PG	EXTC	Sagar Narayan Shinde	Dr. Sukanya Kulkarni	A Comparative analysis of various machine learning algorithm for heart disease prediction based on feature selection	2022-06-29	"International Conference on Advanced Communication Control & Computing Technology" (ICACCCT' 22). SIMATS School of Engineering, Saveetha Institute of Medical & Technical Sciences, Chennai, Tamil Nadu,	9,500	Sanctioned	5000
42	2020201064	UG	EXTC	Mandar Godambe	Prof. Anand Mane	Wireless Hand Gesture Controlled Robot using STM-32 Microcontroller	2023-02-03	Springer Lecture Notes in Networks and Systems	10,500	Sanctioned	5000
43	2018120050	UG	EXTC	Harsh Salkar	Prof. Milind Paraye	PhishGuard - An Automatic Web Phishing Detection System	2022-07-15	2022 IEEE India Council International Subsections Conference (INDICON)	6000	Sanctioned	5000
44	2020201067	UG	EXTC	Purva Kale	Prof. Manish Parmar	Counterfeit Medicine Authentication System Using Blockchain	2023-03-03	Springer Lecture Notes in Networks and Systems	8,250	Sanctioned	5000
45	2020201063	UG	EXTC	Chris Paul	Prof. Manish Parmar	Blockchain-Enabled Ridesharing Platform	2023-03-03	Springer Lecture Notes in Networks and Systems	8,250	Sanctioned	5000


  
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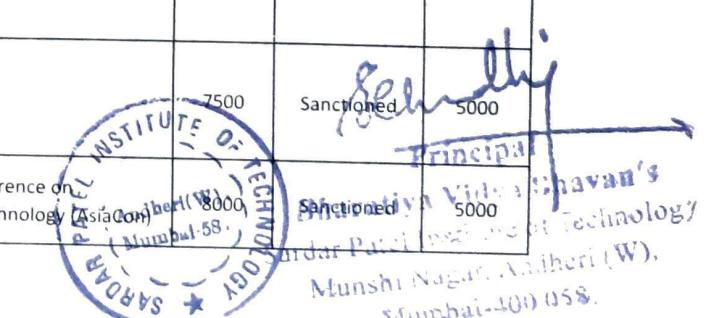

  
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 Andheri (W)

Sr No	UCID	Type	Dept	Applicant Name	Guide Name	paper title	Event Date	conference Name	Amount Requested	Remark	Sanctioned Amount
46	2019220005	PhD	EXTC	Hemalata Mahesh Mote	Dr. Sujata Kulkarni	Image Phylogeny Tree Reconstruction: A Review	21-23 Dec 2022	IEEE International Conference on Interdisciplinary Approaches in Technology and Management for social Innovation (IATMSI-2022)	17,273	Sanctioned	7000
47	2019220005	PhD	EXTC	Hemalata Mahesh Mote	Dr. Sujata Kulkarni	Parameter Estimation for Creating Near Duplicate Dataset	9-11 January 2023	First International Conference on Intelligent Solutions for Emergency Response and Disaster Management (IERDM-2023)	22,542	Sanctioned	6300
48	2019130065   2019130061   2019130056   2019130022	UG	COMPS	Shubham Thakar   Samveg Shah   Bhavya Shah   Kashish Jain	Dr. Sudhir Namdeorao Dhage	"A Comparative Study of Machine Learning and Deep Learning Techniques for Prediction of Co2 Emission in Cars	2022-09-09	International Conference on Sustainable Expert Systems (ICSES - 2022)	12000	Sanctioned	5000
49	2019130065   2019130061   2019130056	UG	COMPS	Shubham Thakar   Samveg Shah   Bhavya Shah	Dr. Anant V. Nimkar	"Sign Language to Text Conversion in Real Time using Transfer Learning	2022-10-07	Global Conference for Advancement in Technology (GCAT 2022)	5000	Sanctioned	5000
50	2019130065   	UG	COMPS	Shubham Thakar	Dr. Dhananjay Kalbande	A Pipeline for Business Intelligence and Data-Driven Root Cause Analysis on Categorical Data	2022-09-09	International Conference on Sustainable Expert Systems (ICSES 2022)	12000	Sanctioned	5000
51	2018130020   	UG	COMPS	Shivangi Kochrekar	Prof. Sunil B. Ghane   Prof. Pramod Bide	A systematic survey of text summarisation techniques	2022-09-29	Seventh International Conference on Advances in Recent Technologies in Electrical and Electronics, ARTEE 2022	7500	Not Sanctioned Same Group and Same Guide.	
52	2018130023   	UG	COMPS	Darsh Mehta	Prof. Sunil B. Ghane   Prof. Pramod Bide	Auto Survey of Research Papers	2022-09-29	Seventh International Conference on Advances in Recent Technologies in Electrical and Electronics, ARTEE 2022	7500	Sanctioned	5000
53	2019130064   2019130062   2019130030   2019130026	UG	COMPS	Mayur Ganesh Telrandhe   Atharva Vijay Shitole   Aditya Kasat   Vedant Jolly	Prof. Kiran Gawande	CNN based Deep Learning model for Deepfake Detection	2022-08-26	Asian Conference on Innovation in Technology	8393.52	Sanctioned	5000
54	2019130037   2019130034   2019130059   2019130058	UG	COMPS	Yashvi Mehta   Sakshi Mahadik   Manan Shah   Jaiwin Shah	Dr. Sudhir Namdeorao Dhage	Comparative study of Machine Learning models for Crime Analysis	2022-11-12	International Conference on Recent Trends in Machine Learning and Image Processing (MLIP)	6000	Sanctioned	5000
55	2018130014   2018130019   2018130017	UG	COMPS	Arka Haldi   Rishi Kaul   Khushi Jashnani	Dr. Anant V. Nimkar   Dr. Sudhir Namdeorao Dhage	Computer Vision based Mechanism for detecting Fire and its Classes	2022-11-04	7th International Conference on Computer Vision & Image Processing, CVIP	43185	Sanctioned	5000
56	2020301078   2020301073   2020301075	UG	COMPS	Rohan Shinde   Sahil Chorghe   Keval Dhanani	Prof. Abhijeet Salunke   Prof. Abhijeet Salunke	Doc-Chain: A University Document Verification Blockchain	2022-09-17	IEEE International Conference on Blockchain and Distributed Systems Security 2022	5400	Sanctioned	5000
57	2020310007   	PG	COMPS	Sanath Mugeraya	Prof. Kailas K. Devadkar	Dynamic Task Scheduling and Resource allocation for microservices in cloud	2022-06-02	International Conference on Electronic Circuits and Signalling Technologies ICECST 2022	10500	Bharatiya Vidya Bhawan's Sanctioned Part I Institute of Technology Mumbai - 400 058.	5000



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Sanctioned Part I Institute of Technology  
Mumbai - 400 058.

Sr No	UCID	Type	Dept	Applicant Name	Guide Name	paper title	Event Date	conference Name	Amount Requested	Remark	Sanctioned Amount
58	2018130051 2019230071 2018130051	UG	COMPS	Jiten Sidhpura Parshwa Shah Rudresh Veerkhare	Prof. Anand Godbole	FedSpam: Privacy Preserving SMS Spam Prediction	2022-11-24	The 29th International Conference on Neural Information Processing (ICONIP 2022)	22531	Sanctioned	5000
59	2018130051 2018130061 2019230071	UG	COMPS	Jiten Sidhpura Rudresh Veerkhare Parshwa Shah	Dr. Sudhir Namdeorao Dhage	HRescue: A Modern ML approach for Employee Attrition Prediction	2022-03-29	2nd International Conference on Machine Learning and Big Data Analytics (ICMLBDA) 2022	7500	Sanctioned	5000
60	2019130023 2019130061 2019140053	UG	COMPS	Naitik Jain Samveg Shah Ameya Ranade	Dr. Sudhir Namdeorao Dhage	Identification of Potholes using Yolov4 and Darknet	2022-11-25	International Conference on Futuristic Technologies	7500	Sanctioned	5000
61	2019130064 2019130070 2019130061	UG	COMPS	Mayur Ganesh Telrandhe Prathmesh Suresh Waghmode Samveg Shah	Prof. Sunil B. Ghane	Imputing missing values for Dataset of Used Cars	2022-08-26	Asian Conference on Innovation in Technology	7984.08	Sanctioned	5000
62	2019130032 2018130011 2019130030	UG	COMPS	Madhav Lahoti Sanchit Gajam Aditya Kasat	Prof. Nataasha Raul Prof. Nataasha Raul	Music Recommendation System Based on Facial Mood Detection	2022-08-12	ICICICT -2022: Third International Conference on Intelligent Computing, Instrumentation and Control Technologies	6005	Sanctioned	5000
63	2019130005 2019130037 2019140001	UG	COMPS	Malhar Bangdiwala Yashvi Mehta Smriti Agrawal	Prof. Sunil B. Ghane	Predicting Success Rate of Startups using Machine Learning Algorithms	2022-08-26	2022 2nd Asian Conference on Innovation in Technology (ASIANCON)	8393.52	Sanctioned	5000
64	2018130054 2018130003 2018130058	UG	COMPS	Trusha Talati Akshat Bhat Soham Vaidya	Dr. Sudhir Namdeorao Dhage	Safe Routes Recommendation for Drivers by Real-Time Prediction of Accident Risk Scores	2022-09-24	2022 IEEE Global Conference on Computing, Power and Communication Technologies (GlobConPT)	11855.4	Sanctioned	5000
65	2018130033 2018130041	UG	COMPS	Rohit Rajaram Pai Mahipal Mohanlal Purohit	Dr. Preetida Vinayakray Jani	Strengthening Deep-Learning-Based Malware Detection Models Against Adversarial Attacks	2022-04-23	International Conference on Data Science and Artificial Intelligence (ICDSAI) 2022	15016.84	Sanctioned	5000
66	2019130005 2019130010 2019130019	UG	COMPS	Malhar Bangdiwala Rutvik Choudhari Adwait Hegde	Prof. Abhijeet Salunke	Using ML Models to Predict Points in Fantasy Premier League	2022-08-26	2022 2nd Asian Conference on Innovation in Technology (ASIANCON)	6858.12	Sanctioned	5000
67	2018130051 2018130061 2019230071	UG	COMPS	Jiten Sidhpura Rudresh Veerkhare Parshwa Shah	Prof. Surekha Dholay	Face To BMI: A Deep Learning Based Approach for Computing BMI from Face	2022-02-12	ICITIIT'22	7500	Sanctioned	5000
68	2019130023 2019130061 2019140053	UG	COMPS	Naitik Jain Samveg Shah Ameya Ranade	Prof. Pramod Bide	A Flutter Application for Framers	2021-08-27	2021 Asian Conference on Innovation in Technology (AsiaCon)	8000 Number 58.	Sanctioned	5000



Sr No	UCID	Type	Dept	Applicant Name	Guide Name	paper title	Event Date	conference Name	Amount Requested	Remark	Sanctioned Amount
69	2019130027   2019130035   2019130031	UG	COMPS	Manvita Joshi   Chetashri Mahajan   Traividya Korgaonkar	Prof. Nataasha Raul	A Mobile App for Safe and Secure Monetary Transactions	2021-12-01	2021 International Conference on Computational Performance Evaluation (ComPE)	5102	Sanctioned	5000
70		Ph.D	ETRX	Manisha R. Bansode	Dr.S.S.Rathod	Compact Planar Electromagnetic Bandgap Structure for Signal and Power Integrity Improvement in High-speed Circuits	2022-12-29	Progress In Electromagnetics Research M, Vol. 114, 233-243, 2022 doi:10.2528/PIERM22102205	8701	Sanctioned	8701
71	2019220066	UG	EXTC	Pallavi Abhale	Prof. Amol D.	Early Stage Detection of Multiple Scl	29--04--2022	IEEE Intl. conf. on Emerging Trends in Engg. And Tech.-Signal & Infor. processing	5500	Sanctioned	5000
						Total					
											341747

UG	Total No. of Applications	NOT Sanctioned	Sanctioned Application	Total Cost	PG.	Total No. of Applications	NOT Sanctioned Application	Sanctioned Application	Total Cost
ETRX				0	ETRX				
EXTC	6	0	6	34000	COMP	1	0	1	0
COMP	21	1	20	100000	MCA	5	0	5	5000
IT	27	3	24	118446	EXTc	4	1	5	25000
Total UG				252446	Total PG			3	15000
									45000

PhD	Total No. of Applications	NOT Sanctioned	Sanctioned Application	Total Cost
ETRX	1	0	1	8701
COMP	0	0	0	0
MCA	1	0	1	9000
EXTc	4	0	4	26600
Total PG				44301

R & D Student Coordinators				
Dr. Aarti Karande	MCA	MCA		
Prof. Anand Godbole	COMP	COMP		
Prof. Nikhat Mulla Prof. Renuka Pawar	IT	IT		
Dr. Amol Deshpande	EXTC	EXTC		
Prof. Najib Gatte	ETRX	ETRX		
Prof. Abhijit Salunke	COMP	COMP		

Dr. Y.S. Rao  
Dean R & D & Principal



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Principal  
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Mumbai Nagar, Andheri (W),  
Mumbai-400068.



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**Research And Development Committee**  
**List of students for Reimbursement of Technical Paper Publication Fees**  
2022 23

Dept	Total No. of Application	Not Sanctioned Application	Sanctioned Application	Total Cost
UG				
ETRX				0
EXTC	7	0	7	34000
COMP	21	1	20	100000
IT	27	3	24	118446
<b>Total UG</b>				<b>252446</b>
PG				
ETRX				0
COMP	1	0	1	5000
MCA	5	0	5	25000
EXTC	4	1	3	15000
				<b>45000</b>
Ph.D.				
ETRX	1	0	1	8701
COMP	0	0	0	0
MCA	1	0	1	9000
EXTC	4	0	4	26600
				<b>44301</b>

R & D Student Coordinators		
Dr. Aarti Karande	MCA	<i>Amr</i>
Prof. Anand Godbole	COMP	<i>AA Godbole</i>
Prof. Nikhat Mulla Prof. Renuka Pawar	IT	<i>Nikhat Mulla</i>
Dr. Amol Deshpande	EXTC	<i>ADD</i>
Prof. Najib Chatte	ETRX	<i>Najib Chatte</i>
Prof. Abhijit Salunke	COMP	<i>Abhijit Salunke</i>

Approved by *S. B. Patel* 21/04/2023

*S. B. Patel* Principal

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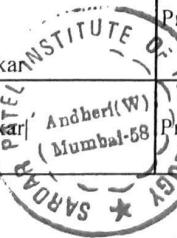


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 (Autonomous College Affiliated to University of Mumbai)

### Research And Development Committee

#### List of students for Reimbursement of Technical Paper Publication Fees 2021-22

Sr No	UCID	Type	Dept	Applicant Name	Guide Name	Paper Title	Conf/Jour Name	Sanctioned Amount
1	2018230071  2017130045  2017130047	UG	COMPS	Anisha Gharat  Pulin Prabhu  Tania Rajabally	Dr. Dhananjay Kalbande	A Fraud Detection System Using Machine Learning	2021 12th International Conference on Computing Communication and Networking Technologies (ICCCNT)	5000
2	2017130014  2017130016  2017130048	UG	COMPS	Pranav Chitale  Tanvi Dhople  Shruti Rampure	Prof. Sunil B. Ghane  Prof. Pramod Bide	A Novel Hybrid Approach Towards Parking Space Occupancy Detection	12th International Conference on Computing Communication and Networking Technologies	5000
3	2018130014  2018130046  2018130063	UG	COMPS	Raj Gorhekar  Chaitya Shah  Viraj Shah	Prof. Pramod Bide	A Survey on Covid-19 Face-Mask Detection Techniques	2021 IEEE International Conference on Computing, Power and Communication Technologies	4212
4	2019430005	PG	COMPS	Harsh Bharucha	Dr. Anant V. Nimkar	Access Control Method for Cloud Data and Data Security in Mobile Cloud Computing	IEEE Conference on Technologies for Future Cities 2021	4800
5	2018130024  2018130060  2019230070	UG	COMPS	Jay Dinesh Mehta  Vaidehi Anant Vatsaraj  Jinal Shah	Prof. Anand Godbole	Airplane Crash Severity Prediction Using Machine Learning	12th International Conference on Computing Communication and Networking Technologies	5000
6	2018130024  2018130023  2018130016	UG	COMPS	Jay Mehta  Darsh Mehta  Jainam Jain	Prof. Surekha Dholay	Asset Tracking System Using Blockchain	2021 Asian Conference on Innovation in Technology (ASIANCON)	5000
7	2018130053  2018130049  2018130059	UG	COMPS	Sarika Singh  Yash Shah  Yug Vajani	Prof. Surekha Dholay	Automated Paper Evaluation System for Subjective Handwritten Answers	The Twelfth International Conference On Computing, Communication And Networking Technologies	5000
8	2018130047  2018130039  2018130018  2018130020	UG	COMPS	Jahnvi Shah  Sakshi Patil  Neha Kale  Shivangi Kochrekar	Prof. Anand Godbole	Principal Campus Placement Prediction Bharatiya Vidya Bhavan's Sardar Patel Institute of Technology (W)	3rd International Conference on Recent Trends in Communication & Intelligent Systems (ICRT CIS 2021)	2500
9	2018130018  2018130020  2018130029	UG	COMPS	Neha Kale  Shivangi Kochrekar  Rishita Mote	Prof. Surekha Dholay	Classification Of Fraud Calls By Intent Analysis Of Call Transcripts	The 12th International Conference On Computing, Communication And Networking Technologies	5000



Sr No	UCID	Type	Dept	Applicant Name	Guide Name	Paper Title	Conf/Jour Name	Sanctioned Amount
10	2018130036  2018130032  2018130053  2018130049	UG	COMPS	Shashank Patel  Rucha Nargunde  Sarika Singh  Yash Shah	Prof. Jyoti Ramteke	Context-Based Deep Learning Approach for Named Entity Recognition in Hindi	2021 International Conference on Communication information and Computing Technology (ICCICT)	5000
11	2018130032  201813007  2018130049	UG	COMPS	Rucha Nargunde  Khushi Jashnani  Yash Shah	Prof. Nataasha Raull	COVID-19 Prediction from CT Scans using Deep-Learning	2021 International Conference on Communication information and Computing Technology (ICCICT)	5000
12	2018130035  2018130043  2018130031	UG	COMPS	Prerak Manoj Parekh  Chirag Jitesh Rana  Kunal Rohidas Nalawade	Prof. Surekha Dholay	Credit Card Fraud Detection With Resampling Techniques	The 12th International Conference On Computing, Communication And Networking Technologies (Icccnt)	5000
13	2018130060  2018130047  2018130062	UG	COMPS	Vaidehi Vatsaraj  Jahnvi Shah  Shobhit Verma	Prof. Surekha Dholay	Decentralized Document Holder Using Blockchain	The 12th International Conference on Computing, Communication and Networking Technologies (ICCCNT)	5000
14	2019430013	PG	COMPS	SIDDHIKA ARUNACHALAM	Dr. Prasenjit Bhavathankar  Dr. Sudhir Namdeorao Dhage	Deep Learning Approach for Diagnosis of Thoracic Diseases from Chest X-Ray Images	2021 International Conference on Communication information and Computing Technology (ICCICT)	2500
15	2017130047  2017130019  2017130023	UG	COMPS	Tania Rajabally  Jinang Gandhi  Aumkar Gadekar	Dr. Preetida Vinayakray Jani  Prof. Dayanand D.Ambawade	Detection of Parkinsons Disease via a Multi Modal Approach	12th International Conference on Computing Communication and Networking Technologies	5000
16	2018130004  2018130006  2018130029  2018130040	UG	COMPS	Namrata Bhorade  Nikita Chitre  Rishita Mote  Bhargavi Poyekar	Prof. Sunil B. Ghane	Diabetes Prediction Using Feature Extraction And Machine Learning Models	2nd International Conference on Electronics and Sustainable Communication Systems 2021, Coimbatore	5000
17	2018130012  2018130034  2018130056	UG	COMPS	Aishwarya Ghaiwat  Harshwardhan Pardeshi  Ankeet Thongire	Prof. Kiran Gawande  Prof. Meghana Naik	Fitness Freaks: A System For Detecting Definite Body Posture Using Open Pose Estimation	4th International Conference on Futuristic Trends in Networks and Computing Technologies (FTNCT 2021)	5000
18	2017130018  2017130036  2017130039	UG	COMPS	Anish Dixit  Shaney Mantri  Shreya Oak	Dr. Anant V. Nimkar  Prof. Meghana Naik	Lane Change Prediction based on Trajectory Analysis and Driver Actions Tracking	2021 International Conference on Computing, Computational Modelling and Applications, France	5000
19	2018130039  2018130038  2018130034	UG	COMPS	Sakshi Patil  Gaurav Patil  Harshwardhan Pardeshi	Prof. Surekha Dholay	Livestockly: An Application For Providing Veterinary Services	2021 12th International Conference on Computing Communication and Networking Technologies	5000
20	2019430006	PG	COMPS	Sushama Jeydrath Garud	Dr. Sudhir Namdeorao Dhage	Lung Cancer Detection Using CT Images And CNN Algorithms	International Conference on Advances in Computing, Communication and Control (ICAC3'21)	5000
21	2017130023  2017130039  2017130050	UG	COMPS	Aumkar Gadekar  Shreya Oak  Abhishek Revadekar	Dr. Anant V. Nimkar	MMAP: A Multi-Modal Automated Online Proctor	International Conference on Machine Learning and Big Data Analytics (ICMLBDA) 2021 (Springer LNNS)	5000

57500/-

Sr No	UCID	Type	Dept	Applicant Name	Guide Name	Paper Title	Conf/Jour Name	Sanctioned Amount
22	2019430009	PG	COMPSC	Anagha Pasalkar	Dr. Dhananjay Kalbande  Prof. Surekha Dholay	Prediction and Analysis of Recurrent Depression Disorder: Deep Learning Approach	Congress on Intelligent Systems (CIS 2021)  SCRS-Conference Proceedings on Intelligent Systems	2000
23	2018130010  2018130026  2018130052	UG	COMPSC	Ebrahim Huzeifa Gabajiwala  Priyav Mehta  Ritik Singh	Prof. Reeta Koshy  Prof. Kiran Gawande	Quiz Maker : Automatic Quiz Generation from Text using NLP	4th International Conference on Futuristic Trends in Networks and Computing Technologies (FTNCT 2021)	5000
24	2018130046  2018130063  2019230070	UG	COMPSC	Chaitya Shah  Viraj Shah  Jinal Shah	Prof. Nataasha Raul  Prof. Meghana Naik	Remote Employee Monitoring & Management	International Conference on Computing in Engineering & Technology	4250
25	2019130038  2019130042  2019130045	UG	COMPSC	Atharva Mohite  Pranav Nair  Deep Nayak	Prof. Pramod Bide	SecurePark: Vehicle Intrusion Detection System	IEEE ASIANCON	5000
26	2019130040  2019130049  2019130041  2018130062	UG	COMPSC	Aditya Motwani  Param Patil  Vatsa Nagaria  Shobhit Verma	Prof. Sunil B. Ghane	Soil Analysis and Crop Recommendation using Machine Learning	IEEE International Conference for Advancement in Technology (ICONAT), Goa, India.	5000
27	2019130026  2019130058  2019130024	UG	COMPSC	Vedant Jolly  Jaiwin Shah  Rishabh Jain	Prof. Anand Godbole  Prof. Abhijeet Salunke	Stock Market Prediction using Bi-Directional LSTM	ICCICT	3600
28	2018130040  2018130043  2018130066	UG	COMPSC	Bhargavi Poyekar  Chirag Rana  Nikita Chitre	Prof. Pramod Bide	Stroke Prediction Using Smote-Tomek and Neural Network	International Conference on Computing Communication and Networking Technologies (ICCCNT)	5000
29	368	PG	COMPSC	Aakansha Dijendra	Prof. Jignesh Sisodia  Prof. Jyoti Ramteke	Telecomm Churn Prediction Using Fundamental Classifiers To Identify Cumulative Probability	IEEE International Conference on Communication information and Computing Technology (ICCICT)	3600
30	2018130039  2016130015	UG	COMPSC	Sakshi Patil Mithil Dani	Prof. Pramod Bide	Video Feature Tagging And Real-Time Feature Search	3rd International Conference on Recent Trends in Communication & Intelligent Systems (ICRTCIS 2021)	3000
31	2018130030  2018130033  2018130045	UG	COMPSC	Ashutosh Vinayak Naik  Rohit Rajaram Pai  Harsh Nirmesh Sandesara	Prof. Surekha Dholay	Vigila: Application for General Safety	IEEE 2021 International Conference on Advances in Computing, Communication and Control (ICAC3'21) 7th Edition	5000
32	2018130019	UG	COMPSC	Devansh Shah	Dr. Anant Nimkar	Spaced Repetition for Slow Learners	IEEE Bombay Section Signature Conference (IBSSC), Mumbai, India, 2020	4500
33	2019130028	UG	COMPSC	Varun Magotra	Pramod Bide	Plant Disease Detection Using Deep Learning	I2CT	5000
34	2019130021	UG	COMPSC	Rishi Kaul	Patel Pramod Bide Andheri (W) Mumbai-400 058	Death by heart failure prediction using ML algorithms	4th Biennial International Conference on Nascent Technologies in Engineering (ICNTE 2021)	3540

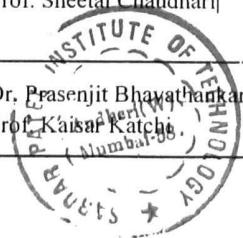


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Mumbai - 400 058

Sr No	UCID	Type	Dept	Applicant Name	Guide Name	Paper Title	Conf/Jour Name	Sanctioned Amount
35		PG	COMPS	Surekha Arjapure	Dr.Dhananjay R. Kalbande	Deep Learning Model for Pothole Detection and Area Computation	4th IEEE International Conference on Communication, Information and Computing Technology	3600
36	201813001	UG	COMPS	Harsh Agarwal	Sudhir Dhage	Customer Adaptive Automated Trading System with Capital Risk Analysis using Machine Learning	3rd IEEE International Conference on Signal Processing and Communication (ICSPC'21)	5000
37	2017130048	UG	COMPS	Om Rajpurkar	Pramod Bide	A Survey on Engagement and Emotion Analysis in Theatre using Thermal Imaging	2020 4th International Conference on Electronics, Communication and Aerospace Technology (ICECA)	5000
38	2017130023	UG	COMPS	Aditi Kandoi	Dr. B. N. Chaudhari	Pothole Detection using Accelerometer and Computer Vision with Automated Complaint Redressal	3rd IEEE International Conference on Signal Processing and Communication (ICSPC'21)	5000
39	2017130050	UG	COMPS	Rahul Ramteke	Surekha Dholay	Malware Detection in Banking and Financial Sector using Light Gradient Boosting Model	2021 4th IEEE International Conference on Communication, Information and Computing Technology	3600
40	2017130037	UG	COMPS	Sakshi Milkhe	Kiran Gawande	Movie Buzz - Movie Success Prediction System using Machine Learning Model	3rd International Conference on Intelligent Sustainable Systems ICISS 2020	5000
41	2017130055	UG	COMPS	Shyam Sodhani	Reeta Koshy	Attention Detection Of Participants During Digital Learning Sessions using Edge Computing	International Conference on IoT Based Control Networks and Intelligent Systems ICICNIS 2020	5000
42	2017130012	UG	COMPS	Anisha Gharat	Reeta Koshy	A Complexion based Outfit color recommender using Neural Networks	2021 International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT)	5000
43	2018130054	UG	COMPS	Chaitya Shah	Surekha Dholay	Counterfeit Currency Detection using Deep Learning	The 12th International Conference on Computing, Communication and Networking Technologies (ICCCNT)	5000
44	2018130054	UG	COMPS	Harsh Sandesara	Pramod Bide	Survey on Social Distancing Detection Using Deep Learning	International Conference on Innovative Computing and Communication (ICICC-2021)	5000
45	2017130057	UG	COMPS	Shubham Shetty	Pramod bide	Helmet Detection Using Detectron2 and EfficientDet	The Twelfth International Conference on Computing, Communication and Networking Technologies	5000
46	2017150004	PG	COMPS	Divya Rajendra Gavandi	Jyoti Ramteke	Swindle: Predicting the Probability of Loan Defaults using CatBoost Algorithm	2021 5th International Conference on Computing Methodologies and Communication (ICCMC)	5000

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Sr No	UCID	Type	Dept	Applicant Name	Guide Name	Paper Title	Conf/Jour Name	Sanctioned Amount
47	2017130023	UG	COMPS	Ajinkya Kudoo	Jyoti Ramteke	Real-Time Compression Artifact Reduction for Low Bandwidth Video Conferencing	2021 International Conference on Computer Communication and Informatics (ICCCI)	5000
48	2019430003	PG	COMPS	Radhika Bailurkar	Prof. Nataasha Raul	Detecting Bots to Distinguish Hate Speech on Social Media	The 12th International Conference on Computing, Communication and Networking Technologies (ICCCNT)	5000
49	2018140011  2018140005  2018140006	UG	IT	Yash Chhadval Ravi Agrawal Sagar Badlani	Prof. Kailas K. Devadkar	Architecture for Mobile Cloud Computing Using Five Level Offloading(ARMFLORA)	5th International Conference on Trends in Electronics and Informatics (ICOEI 2021)	5000
50	2018140029  2018140018  2018140017	UG	IT	Rounak Jaiswal  Karan Gala  Harsht Dodiya	Prof. Sheetal Chaudhari  Prof. Surekha Dinolay	Attention, Emotion and Attendance Tracker with Question Generation System Using Deep Learning	International Conference for Emerging Technology (INCET)	5000
51	2018140054	UG	IT	Krushna Shah	Dr. Sudhir Namdeorao Dhage	Automated Proctoring System using Computer Vision Techniques	2021 International Conference on System, Computation, Automation and Networking (ICSCAN)	5000
52	2017140001  2017140060  2018240073	UG	IT	Riya Bhagat  Parth Thosani  Nisarg Shah	Dr. Radha Shakarmani	Complex Document Classification and Integration with Indexing	2021 Second International Conference on Electronics and Sustainable Communication Systems (ICESC)	5000
53	2017140048  2017140041	UG	IT	Kshitij Shah  Saurabh Ranee	Dr. Radha Shakarmani	Decentralised Peer-to-Peer Crop Insurance	3rd ACM International Symposium on Blockchain and Secure Critical Infrastructure, Hong Kong	5000
54	2018140036  2018140044  2018140048	UG	IT	Sarthak Maniar  Kaustubh Patil  Bhargav Rao	Dr. Radha Shakarmani	Depression Detection from Tweets Along with Clinical Tests	2021 International Conference on Intelligent Technologies (CONIT)	5000
55	2018140025  2018140030  2018140027	UG	IT	Manasi Jadhav  Neha Kolambe  Shreya Jain	Prof. Sheetal Chaudhari	Farming Made Easy using Machine Learning	2021 2nd International Conference for Emerging Technology (INCET)	5000
56	2018240075  2018240065  2017140004	UG	IT	Atique Siddiqui  Sana Fatima Ansari  Sudhanshu Chavan	Dr. Prasenjit Bhavathankar  Prof. Kailas K. Devadkar	Localization and multi-label classification of thoracic diseases using deep learning	3rd international conference on inventive compuation and information technologies	5000
57	2018140032  2018140026  2018140024  2018140021	UG	IT	Rucha Kulkarni  Chirag Jain  Luv Gupta  Pravesh Ganwani	Prof. Sheetal Chaudhari	LSB Based Audio Steganography using RSA and ChaCha20 Encryption	2021 12th International Conference on Computing Communication and Networking Technologies (ICCCNT)	5000
58	2017140010  2017140049  2018240074	UG	IT	Yashvi Sanjaykumar Desai  Naisha Parag Shah  Vrushali Atul Shah	Dr. Prasenjit Bhavathankar  Prof. Kaisar Katche	Markerless Augmented Reality based E-Commerce Application to Visualise 3D Content	3rd International Conference on Inventive Research in Computing Applications	5000



Yashvi Sanjaykumar Desai  
Naisha Parag Shah  
Vrushali Atul Shah

Markerless Augmented Reality based  
E-Commerce Application to  
Visualise 3D Content

Sr No	UCID	Type	Dept	Applicant Name	Guide Name	Paper Title	Conf/Jour Name	Sanctioned Amount
59	2018140006	UG	IT	Sagar Badlani	Prof. Nikahat Mulla	Melanoma Detection Using Convolutional Neural Networks and Group Normalization	2021 5th International Conference on Trends in Electronics and Informatics (ICOEI)	5000
60	2017140057  2017140032  2017140027	UG	IT	Manas Salil Sinkar  Sai Nimkar  Mohammad Izhan	Prof. Swapnali Kurhade	Multi-Agent Path Finding using Dynamic Distributed Deep Learning Model	2021 International Conference on Communication information and Computing Technology (ICCICT)	5000
61	2018140015	UG	IT	Meet Nitin Dave	Prof. Sheetal Chaudhari	Multilingual Healthcare Chatbot Using Machine Learning	International Conference for Emerging Technology (INCET)	5000
62	2018140055  2018140056	UG	IT	Meet Shah  Rajat Shenoy	Dr. Radha Shakarmani	Natural Language to Python Source Code using Transformers	2021 International Conference on Intelligent Technologies (CONIT)	5000
63	2017140045  2017144038  2017144018	UG	IT	Viddhesh Sankhe  Sharvesh Patki  Mohd Jawwad	Prof. Nikahat Mulla	Personalised Employee Training	IEEE International Conference on Communication information and Computing Technology (ICCICT), June 25-27, 2021, Mumbai, India	4500
64	2016140026  2016140047	UG	IT	Palak Keni  Pratik Rathil	Prof. Jignesh Sisodia  Dr. Prasenjit Bhavathankar	Project topic recommendation by analyzing user's interest using Intelligent Conversational System.	3rd International Conference on Innovative Data Communication Technologies and Application (ICIDCA 2021)	5000
65	2018140034  2018140042	UG	IT	Harshita Lakhotiya  Harsh Pandita	Dr. Radha Shakarmani	Real Time Sign Language Recognition Using Image Classification	2021 2nd International Conference for Emerging Technology (INCET)	5000
66	2017140017  2017140023  2018240069	UG	IT	Gupta Shashank Kumar Shivmurat  Kudalkar Minakshi Ajay	Prof. Renuka Pawar	Real Time Text & Speech Translation Using Sequence to Sequence Approach	3rd International Conference on Inventive Research in Computing Applications ICIRCA 2021	5000
67	2018140014  2018140008  2018140010	UG	IT	Shreyas Darade  Atharva Bane  Dnyaneshwar Birajdar	Prof. Sheetal Chaudhari	Real Time Traffic Control System Using Dynamic Scheduling	2021 International Conference on Intelligent Technologies (CONIT)	5000
68	2018140009  2019240071  2018140007	UG	IT	Sakshi Bhojar  Nikki Wagholarik  Kshitij Bakshi	Prof. Sheetal Chaudhari	Real-time Heart Disease Prediction System using Multilayer Perceptron	2021 2nd International Conference for Emerging Technology (INCET)	5000
69	2018140005  2018140011  2018140002	UG	IT	Ravi Agrawal  Yash Chhadva  Sanjana Addagarla	Prof. Sheetal Chaudhari	Road Surface Classification And Subsequent Pothole Detection Using Deep Learning	2021 2nd International Conference for Emerging Technology (INCET)	5000
70	2018140040  2018140039  2018140041	UG	IT	Mohammad Anas Mudassir  Yash Mor  Rhythm Munot	Dr. Radha Shakarmani	Sentiment Analysis of COVID-19 Vaccine Perception Using NLP	3rd International Conference on Inventive Research in Computing Applications (ICIRCA 2021)	5000
71	2018140037  2018140035	UG	IT	Yash Mehta  Atharva Malhar	Dr. Radha Shakarmani	Stock Price Prediction using Machine Learning and Sentiment Analysis	INCET 2021	5000

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Sr No	UCID	Type	Dept	Applicant Name	Guide Name	Paper Title	Conf/Jour Name	Sanctioned Amount
72	2018140059	UG	IT	Krish Sukhani	Dr. Radha Shankarmani	Traffic Sign Board Recognition and Voice Alert System using Convolutional Neural Network	2021 2nd International Conference for Emerging Technology (INCET) - IEEE	5000
73	2018140019  2018140020  2018140023	UG	IT	Jash Gandhi  Parth Gandhi  Aayush Gosar	Prof. Sheetal Chaudhari	Video Recognition Techniques for Indian Sign Language in Healthcare Domain	2nd International Conference for Emerging Technology (INCET)	5000
74	2017140009  2017140014  2017140013	UG	IT	Ayushi Desai  Yash Gandhi  Jaynil Gaglani	Prof. Nikahat Mulla	Virtual Assistant for Enhancing English Speaking Skills	3rd International Conference on Inventive Research in Computing Applications ICIRCA 2021	5000
75	2018140016  2018140013  2018140001	UG	IT	Deep Dodhiwala  Shagun Choudhari  Abhishek Swaminathan	Prof. Sheetai Chaudhari	A Web Application for Early Prediction of Diabetes Using Artificial Neural Network	3rd International Conference on Machine Intelligence and Signal Processing	4000
76	2018140064  2018140059  2018140036	UG	IT	Deepak Yadav   Krish Sukhani   Sarthak Maniar	Prof. Kailas K. Devadkar	In-Browser Attendance System using Face Recognition and Serverless Edge Computing	2021 12th International Conference on Computing Communication and Networking Technologies (Icccnt) Intelligence and Signal Processing	5000
77	2018140033  2018140040  2018140046  2018140047	UG	IT	Neha Lakhani  Mohammad Anas Mudassir  Madhur Rajadhyaksha  Manav Ranawat	Prof. Sheetal Chaudhari	A Modified Approach To Sleep Scheduling Mechanism using Particle Swarm Optimization for Wireless Sensor Networks	2021 2nd International Conference for Emerging Technology (INCET)	5000
78	2017140020   2017140024   2017140015	UG	IT	Atul Kamble   Dhawal Mali   Shubham Gogate	Prof. Jignesh Sisodia	Hand Gestures Recognition using Inertial Sensors Through Deep Learning	2021 12th International Conference on Computing Communication and Networking Technologies (ICCCNT)	5000
79	2018140062   2018140051   2018140052	UG	IT	Ankit Vishwakarma   Prerana Sawant   Sahil Sawant	Dr. Radha Shankarmani	An Emotionally Aware Friend: Moving Towards Artificial General Intelligence	3rd IEEE International Conference on Inventive Research in Computing Applications (ICIRCA)	5000
80	2018140062   2018140051   2018140052	UG	IT	Ankit Vishwakarma   Prerana Sawant   Sahil Sawant	Prof. Prasenjit Bhavathankar	Analytical and Sentiment based text generative chatbot	2021 12th International Conference on Computing Communication and Networking Technologies (ICCCNT)	5000
81	2018140052   2018140059   2018140036	UG	IT	Sahil Sawant   Krish Sukhani   Sarthak Maniar	Prof. Renuka Pawar	Automating the Bypass of Image-based CAPTCHA and Assessing Security	2021 12th International Conference on Computing Communication and Networking Technologies (ICCCNT)	5000
82	2017140003   2017140007   2017140043	UG	IT	Aniket Brahmecha   Rahul Dalvi   Manasvi Sagathiya	Prof. Aparna Halbe	LifeSpire Detection and Diagnosis of Disease	3rd International Conference on Inventive Research in Computing Applications	5000

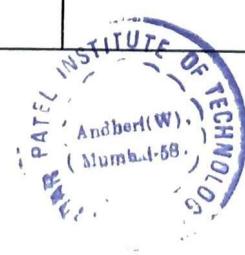


Principal  
Munshi Nagar, Andheri (W),  
Mumbai-400 058.

Sr No	UCID	Type	Dept	Applicant Name	Guide Name	Paper Title	Conf/Jour Name	Sanctioned Amount
83	2018140021   2018140024   2018140026   2018140032	UG	IT	Pravesh Ganwani   Luv Gupta   Chirag Jain   Rucha Kulkarni	Prof. Varsha Hole	Performance Benchmarking and Analysis of Various Elevator Dispatching Strategies	10th International Conference on System Modeling & Advancement in Research Trends (SMART)	5000
84	2017140036   2017140047   2017140061	UG	IT	Vineet Pardhi   Kewal Shah   Jaydeep Vaghasiya	Prof. Varsha Hole	Generating a Scene from Text for Smart Education	IEEE International Conference on Communication information and Computing Technology (ICCICT), June 25-27, 2021, Mumbai, India	5000
85	2019110024   2019110033	UG	ETRX	Siddhant Hemant Kamlaskar   Param Deepak Mehta	Dr. Deepak C Karia   Prof. Najib Ghatte	Automatic Room Sanitization Using UV-C Tubes	2021 International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON)	5000
86	2017510006	PhD	ETRX	Payal Shah	Dr. S.S. Rathod	Design of Retinal Ganglion and Bipolar Cell Exhibiting Near Biological Response	IEEE International Conference on Technology, Research & Innovation for Betterment of Society (TRIBES-2021)	4000
87	2018110033   2018110022   2018110046	UG	ETRX	Akshay Pasari   Kush Jain   Karan Sanghavi	Prof. G. T. Haldankar   Prof. P. V. Kasambe	IoT Enabled Programmable SwitchBox with existing SwitchBoard back	2021 International Conference on Advances in Computing, Communication, and Control (ICAC3)	5000
88	2017510006	PhD	ETRX	Payal Shah	Dr. S.S. Rathod	Review of Bio-inspired Silicon Retina: From Cell to System Level Implementation	IEEE International Conference on Communication information and Computing Technology (ICCICT 2021)	3600
89	2018110005   2018110017   2018110027   2018110054	UG	ETRX	Ayush Asawa   Archis Gune   Vivek Kumar Mandal   Vivek Shetty	Dr. Deepak C Karia	Threat Assessment Industrial Robot	2021 International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT)	5000
90	2019210070	UG	ETRX	Kunal Sanghvi	Prof. Payal Shah, Dr. Surendra Rathod	Smart Parking Solutions for On-Street and Off-Street Parking	International Conference on Communication, Information and Computing Technology	5000
91	2016110029   2016110030   2016110037	UG	ETRX	Sanish Kharade, Amit Kumar, Ankita Mukne	Dr. Surendra Rathod	Development of novel wireless Electronic Signature Stamp	First IEEE International Conference on Measurement, Instrumentation, Control and Automation (ICMICA 2020)	5000
92	2018110057	UG	ETRX	Divit Ajithkumar Kalathil	Prof. Kiran Talele, Prof. Manisha Bansode	Microcontroller based Substation Disaster Monitoring System	Fifth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud)	5000
93	2018120041   2018120031   2018120061   2018120058	UG	EXTC	Naveen Bharathiranjan   Adwait Kaundanya   Yash Wadalkar   Jaiesh Singhal	Prof. K. T. Talele	An Empirical Approach for Tuning an Autonomous Mobile Robot in Gazebo	5th International Conference On Computational Vision and Bio Inspired Computing( ICCVBIC 2021)	5000

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Sr No	UCID	Type	Dept	Applicant Name	Guide Name	Paper Title	Conf/Jour Name	Sanctioned Amount
94	2018120060	UG	EXTC	Upadrashta Suryasundar Giridhar	Dr. Reena Sonkusare	Analysis and Determination of Magnitude of Earthquake Using STALTA Algorithm	International Conference on Computing Communication and Networking Technologies	5000
95	2018120031  2018120004  2018120049	UG	EXTC	Adwait Kaundanya  Anubhav Anand  Kamal Raisinghani	Dr. Reena Sonkusare	Analysis of Signal Noise Reduction Techniques	3rd International conference on Communication, Computing and Electronics Systems ICCCES 2021	5000
96	2018120020  2018120023  2018120060	UG	EXTC	Harsh Dungarani  Yagnesh Gotad  U. S. Giridhar	Prof. Pallavi Malame	Application of Genetic Algorithm for Designing of Microstrip Patch Antenna with a U-Slot	Signal Processing, Information, Communication and Systems 2021	2287
97	2017120005	UG	EXTC	Harit Bandi	Dr. Amol S Deshpande	Assessing Car Damage with Convolutional Neural Networks	2021 International Conference on Communication information and Computing Technology (ICCICT)	3600
98	2019220072  2018120058  2018120061	UG	EXTC	Chinmayi Rane  Jaiesh Singhal  Yash Wadalkar	Dr. Amol S Deshpande	Data-driven Analysis for Startup Investments for Venture Capitalists	2022 International Conference for Advancement in Technology	5000
99	2018120053  2018120056  2018320064	UG	EXTC	Vyomesh Sharma  Ruchika Shetty  Jai Dalvi	Dr. Sujata S Kulkarni	DDoS Attack Detection using Artificial Neural Network	International Conference on Industrial Electronics Research and Applications	5000
100	2018120045  2018120026  2018120030	UG	EXTC	Kshitij Parab  Vansh Jain  Sharvari Kalgutkar	Dr. Reena Sonkusare	EEG Brainwave Emotion Detection Using Stacked Ensembling Method	2021 12th International Conference on Computing Communication and Networking Technologies (ICCCNT)	5000
101	2019120065  2019120066  2019120052	UG	EXTC	Keshav Thosar  Pranay Tiwari  Revanth Jyothula	Prof. Dayanand D.Ambawade  Prof. Anand Godbole	Effective Malware Detection using Gradient Boosting and Convolutional Neural Network	IEEE Bombay Section Signature Conference 2021	4720
102	2018120019  2018120025  2018120029	UG	EXTC	Alvan Dmello  Aishwary Jadhav  Jui Kale	Dr. Amol S Deshpande	Evaluating MPT and CAPM to Optimize Investment Portfolio of BSE Securities	International Conference for Advancement in Technology 2022	5000
103	2017120033  2019220072	UG	EXTC	Amol Shankar Lashkare  Chinmayi Mangesh Rane	Prof. Aarti Karande  Dr. Y.S. Rao	Image Captioning based Smart Navigation System for Visually Impaired	2021 International Conference on Communication information and Computing Technology (ICCICT)	3400
104	2017120006 - -	UG	EXTC	Siddhant Bhagat - -	Prof. Dayanand D.Ambawade	Integrated Technical and Sentiment Analysis Tool for Market Index Movement Prediction, comprehensible using XAI	International Conference On Communication, Information And Computing Technology (ICCICT-2021)	3600



Bharatiya Vidya Bhawan's  
Sardar Patel Institute of Technology  
Munshi Nagar, Andheri (W),  
Mumbai - 400 058.

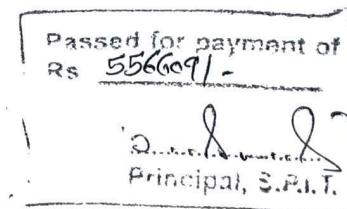
Sr No	UCID	Type	Dept	Applicant Name	Guide Name	Paper Title	Conf/Jour Name	Sanctioned Amount
105	2018120020  2018120023  2018120060	UG	EXTC	Harsh Dungrani  Yagnesh Gotad  U. S. Giridhar	Prof. Dayanand D.Ambawade  Dr. Amol S Deshpande	Machine Learning Techniques for Heart Failure Prediction: An Exclusively Feature Selective Approach	2021 International Conference on Communication information and Computing Technology (ICCICT)	3600
106	2018120019  2018120025  2018120029	UG	EXTC	Alvan Dmello  Aishwary Jadhav  Jui Kale	Dr. Reena Sonkusare	Marathi and Konkani Speech Recognition using Cross Correlation Analysis	International Conference on Computing Communication and Networking Technology	5000
107	2017120034	UG	EXTC	Apurva Lingayat	Dr. Amol S Deshpande	Offline Marathi Character To Text Conversion	International Conference on Computational Intelligence and Communication Tehnologies	5000
108	2017120004  2017120012  2017120013	UG	EXTC	Siddhesh Badhan Kimaya Desai Manish Dsilva	Dr. Reena Sonkusare  Prof. Sneha A. Weakey	Real-Time Weed Detection using Machine Learning and Stereo-Vision	2021 6th International Conference for Convergence in Technology (I2CT)	5000
109	2017120007  2017120010  2017120048	UG	EXTC	Ajay Chaudhari Omkar Dalvi Onkar Rainade	Prof. Dayanand D. Ambawade	Yog-Guru: Real-Time Yoga Pose Correction system Using Deep Learning Methods	2021 International Conference on Communication information and Computing Technology	5000
110	2017120004  2017120012  2017120013	UG	EXTC	Siddhesh Badhan	Prof. Manish Parmar	Implementation of Backtracking Algorithm for navigation in LoRa-enabled wearable device for Dementia patients	2020 IEEE 5th International Conference on Computing Communication and Automation (ICCCA)	4500
111	2019420006	PG	EXTC	Priya Pitale	Dr. Deepak C Karia  Prof. Manish M. Parmar	Temperature monitoring and application of machine learning in radiology for COVID-19 pandemic	IEEE International Conference on Computing, Communication and Green Engineering 2021 (CCGE21)	4500
112	2018450012	PG	MCA	Purvesh Desale	Prof. Sakina Salmani  Prof. Pooja Raundale	Analysis of Anxiety and Depression in Gaming Individuals	2021 International Conference on Communication information and Computing Technology (ICCICT)	4800
113	2018450030	PG	MCA	Hadi Maredia	Prof. Pooja Raundale	Analytical Study Of Handwritten Character Recognition: A Deep Learning Way	Conference on Intelligent Technologies (CONIT) 2021 - IEEE Xplore	5000
114	2018450017	PG	MCA	Mridul Gupta	Prof. Sakina Salmani	Improving whatsapp Video Statuses using FFmpeg and Software based encoding	International Conference on Communication, Information & Computing Technology ( ICCICT - 2021 )	4800
115	2018450036  2018450014	PG	MCA	Rahul Pai Avinash Dubey	Prof. Nikhita Mangaonkar	Real Time Eye Monitoring System Using CNN For Drowsiness and Attentiveness System	2021 Asian Conference on Innovation in Technology (ASIANCON) Pune, India. Aug 28-29, 2021	5000
116	2018450044	PG	MCA	Aakash Sawale	Prof. Pooja Raundale	Dialog prediction in Institute Admission : A Deep Learning Way	2nd International Conference of Emerging Technology (INCET 2021)	5000

Sr No	UCID	Type	Dept	Applicant Name	Guide Name	Paper Title	Conf/Jour Name	Sanctioned Amount
117		PG	MCA	Nilam Khatal	Prof. Nikhita Mangaonkar	Resume Screening Bot using RPA	International Conference on Soft Computing for Security Applications (ICSCS2021)	5000
118		PG	MCA	Shardul Rane, Chetan Thosar	Prof. Pooja Raundale	Prediction of Parkinson's disease and	2nd International Conference of Emerging Technology (INCET 2021)	5000
								<b>Total</b>
								<b>556609</b>

UG	Total No. of Application	Not Sanctioned Application	Sanctioned Application	Total Cost
ETRX	6	0	6	30000
EXTC	20	2	18	80707
CQMP	43	3	40	189202
IT	36	0	36	178500
<b>Total UG</b>	<b>105</b>	<b>5</b>	<b>100</b>	<b>478409</b>

PG./ Ph.D.	Total No. of Application	Not Sanctioned Application	Sanctioned Application	Total Cost
ETRX	2	0	2	7600
COMP	8	0	8	31500
MCA	8	1	7	34600
EXTC	1	0	1	4500
<b>Total PG</b>	<b>19</b>	<b>1</b>	<b>18</b>	<b>78200</b>

R & D Student Coordinators	
Dr. Aarti Karande	MCA
Prof. Anand Godbole	COMP
Prof. Nikhat Mulla	IT
Dr. Amol Deshpande	EXTC
Prof. Najib Gatte	ETRX





Bharatiya Vidya Bhavans'  
 Sardar Patel Institute of Technology  
 Munshinagar, Andheri(W), Mumbai-400058  
 (Autonomous College Affiliated to University of Mumbai)

**Research And Development Committee**  
**Summary report 2020 21**

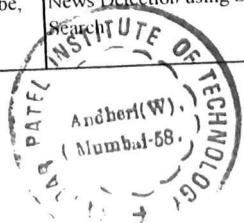
Sr.	UCID	Type	Applicant Name	Guide Name	Paper Title	Conf/Jour Name	Amount Requeste	Remark	Sanctioned Amount
MCA_3	2017450031 2017450027	PG	Anurag Narkhede, Vinit Mapari,	Dr.Arati Karande,	IOT Smart Locker	ICCCMLA 2020	7600	Springer Conference	5000
MCA_4	2017450037	PG	NIDHI PATEL,	Prof. NIKHITA MANGAONKA R,	Abstractive vs Extractive Text Summarization (Output based approach) - A Comparative	IEEE International Conference for Innovation in technology 2020	8000	IEEE	5000
MCA_5	2017450052	PG	Nishant Sikri	Sakina Shaikh	smart twitter analysis on location using kali linux	ICCNCT 2020	9500	Springer Conference	5000
MCA_10	2018450057 2018450003	PG	Vivek Venkatesh Maulika Arekar	Nikita Mangoankar,	Offline Voice Commerce Shopper Tracker using NLP Analytics	International Conference on Communication and Artificial Intelligence	6000	Springer Conference	5000
EXTC_1	2018420001	PG	Mohan Jagannath Bhandary	Prof. Manish Parmar	A Blockchain Solution based on Directed Acyclic Graph for IOT Data Security using IOTA Tangle	5Th International Conference On Communication And Electronics Systems (ICCES 2020)	7000	IEEE Conference	5000
EXTC_3	2016120023, 2016120060	UG	Aabha Karmakar, Kirti Tyagi, Simran Kaur	Dr. Sukanya Kulkarni, Dr. Rita Das	Crop health monitoring system	International Conference for Emerging Technology	7500	IEEE Conference	5000
EXTC_4	2018420010	PG	Sonali Shedge	Prof. Vijaya Kamble	Rectangular Ring Monopole Antenna using Defected Ground Structure for Television White Space Application	9th IEEE International Conference on Communication Systems and Network Technologies (CSNT 2020)	3500	IEEE Conference	3500
EXTC_5	2016120036 2016120047 2016120024	UG	Yash Patil, Sahil Krishnadas, Adya	Dr. Sujata Kulkarni	American and Indian Sign Language Translation using Computer Vision	International Conference on Business Management, Innovation, and Sustainability	10955	Elsevier Conference	5000
EXTC_6	2018420012	PG	Kadambari Shinde	Dr. Sujata Kulkarni	Business Oriented Enhancement Model for Diabetic Retinopathy Detection	International Conference of Business Management Innovation and Sustainability	11715	IEEE Conference	5000
EXTC_7	2018420005	PG	Riddhi Karpe	Dr. Sukanya Kulkarni Sardar Patel Institute of Technology Andheri(W) Mumbai-400058	Software Defined Radio based Global Positioning System Jamming and Spoofing for vulnerability analysis	International Conference on Electronics and sustainable communication systems (ICESCS2020)	8000	IEEE Conference	5000
EXTC_8	2018420014	PG	Sneha Tandel	Prof. Narendra Bhagat	CMOS CFOA based Quadrature Oscillator	International Conference on Electronics and sustainable communication systems (ICESCS2020)	7000	IEEE Conference	5000

20000

	UCID	Type	Applicant Name	Guide Name	Paper Title	Conf/Jour Name	Amount Requested	Remark	Sanctioned Amount
EXTC_9	2018420003	PG	Sanjana Ingale	Prof Milind Paraye	Enhancing Multi-Step Attack Prediction using Hidden Markov Model and Naive Bayes	International Conference on Electronics and sustainable communication systems (ICESCS2020)	8500	IEEE Conference	5000
EXTC_10	2018420009	PG	Harsh Patel	Dr. S. S. Rathod	An FPGA Based Hardware Emulator for Neuromorphic Chip	International Conference on Electronics and sustainable communication systems (ICESCS2020)	7000	IEEE Conference	5000
EXTC_12	2016120003, 2016120009 2017220064,	UG	Anwar Ansari, Vedali Chaudhari, Akash Bansode.	Prof Anand Mane.	Bridge Monitoring System	International Conference on Communication, Electronics and Electrical Engineering	5125	IEEE Conference	5000
EXTC_13	2018420013	PG	Savli Shinde	Prof Manisha Bansode	Suppression of SSN in High-Speed Circuits using 1-D EBG structure	11th INTERNATIONAL CONFERENCE ON COMPUTING, COMMUNICATION AND NETWORKING TECHNOLOGIES (ICCCNT)	6500	IEEE Conference	5000
EXTC_14	2016120033	UG	Siddharth Mehta	Prof. Amol Deshpande	Detection of Counterfeit Cosmetic Products using Image Processing and Text Extraction	International Conference on Evolutionary Computing and Mobile Sustainable Networks (ICECMSN 2020)	10000	Springer Conference	5000
EXTC_15	2017120063 2017120043	UG	Srushti Yadahalli, Aditi Parmar	Prof. Amol Deshpande	Smart Intrusion Detection System for Crop Protection by using Arduino	2nd INTERNATIONAL CONFERENCE ON INVENTIVE RESEARCH IN COMPUTING APPLICATIONS (ICIRCA 2020)	3000	IEEE Conference	5000
EXTC_16	2017120063, 2017120052	UG	Srushti Yadahalli, Shambhavi Rege	Dr. Reena Sonkusare	Implementation and analysis of image steganography using Least Significant Bit and Discrete Wavelet Transform techniques	5th International Conference on Communication and Electronics Systems (ICCES) 2020	12000	IEEE Conference	5000
EXTC_18	2017320078 2017110028 2017120029 2017120059	UG	Vedant Kumar, Siddhant Kumar, Pratyush Kaware, Pradhuman Singh	Dr. Reena Sonkusare	Extraction of information from bill receipts using optical character recognition	International Conference on Smart Electronics and Communication (ICOSEC 2020)	7000	IEEE Conference	5000
EXTC_19	2016120014, 2017120067, 2016120027	UG	Sadyot Gangoli, Anchal Jhunjhunwala, Siddhi Korad	Prof. Milind Paraye	Solar Powered BLDC Motor enhanced by MPPT Algorithm and Artificial Neural Networks	IEEE Conference on Smart Technologies on Power, Energy and Control (STPEC), 2020	5600	IEEE Conference	5000
EXTC_20	2017120047, 2017120049, 2017120040	UG	Tanay Mehdale, Soham Pinge, Vishal Ramina	Dr. Sujata Kulkarni	Analysis of the Effects of Different types of Noises and Wavelets used in Denoising of an Image using Wavelet Transform	11th International Conference on Computing, Communication and Networking Technologies (ICCCNT) 2020	7300	IEEE Conference	5000
EXTC_21	2017120032, 2017120028, 2017120035	UG	Urja Kulkarni, Shrishi Kaushik, Lanita Lobo,	Dr. Reena Sonkusare Member-58	Comparative Study of Digital Signal Processing Techniques for Tuning an Acoustic Guitar	IEEE 7th International Conference on Smart Structures and Systems (ICSSS 2020)	8500	IEEE Conference	5000
EXTC_22	2018120045	UG	Kshitij Parab	Amol Deshpande, Dayanand Ambawade	Pneumonia Detection from Chest X Ray using Transfer Learning	IEEE Sponsored 6th International Conference for Convergence in Technology (I2CT) 2021 Pune,	7650	IEEE Conference	5000

Sr.	UCID	Type	Applicant Name	Guide Name	Paper Title	Conf/Jour Name	Amount Requested	Remark	Sanction Amount
EXTC_23	2018120025, 2018120029, 2019220072, 2018120015	UG	Aishwary Jadhav, Jui Kale, Chinmayi Rane, Ankit Datta	Amol Deshpande, Dayanand Ambawade	Forecasting FAANG Stocks using Hidden Markov Model	IEEE Sponsored 6th International Conference for Convergence in Technology (I2CT) 2021. Pune,	7650	IEEE Conference	5000
EXTC_24	2019420002	PG	Daniel D'Silva	Prof. Dayanand Ambawade	Building A Zero Trust Architecture Using Kubernetes	IEEE Sponsored 6th International Conference for Convergence in Technology (I2CT) 2021. Pune,	7650	IEEE Conference	5000
EXTC_25	201942004	PG	Prajna Kotian	Dr Reena Sonkusare	Detection of Malware in Cloud Environment using Deep Neural Network	IEEE Sponsored 6th International Conference for Convergence in Technology (I2CT) 2021. Pune,	8100	IEEE Conference	5000
IT_1	2016140047, 2016140056, 2016140024,	UG	Pratik Omprakash Rathi, Rahil Sheth, Madhur Kabra,	Jignesh Sisodia	Machine Learning Approach for Analysis of The Company Performance based on Fundamental Data	International Conference on Data Intelligence and Cognitive Informatics (ICDICI-2020)	7000	Springer Conference	5000
IT_4	2017120019 , 2017140048 , 2017140052 ,	UG	Vinayak Iyer, Kshitij Shah, Sheth,	Sahil Kailas Devadkar	Virtual assistant for the visually impaired	5th International Conference on Communication and Electronics Systems (ICCES)	6000	IEEE Conference	5000
IT_5	2017140048 2017140034 2017140038	UG	Kshitij Shah, Mridul Pandey, Sharvesh Patki,	Radha Shankarmani,	A Virtual Trial Room Using Pose Estimation and Homography	International Conference on Intelligent Computing and Control Systems	6000	IEEE Conference	5000
IT_6	2017140043 2017140046 2017140042	UG	Manasvi Sagathiya, Janice Shah, Kareena Redij	Varsha Hole,	Natural Language processing based Abstractive Text Summarization of Reviews	International conference on Electronics and Sustainable Communication Systems	7000	IEEE Conference	5000
IT_7	2017140030 2017140031 2017140002	UG	Bhumika Narwani, Jatin Nawani, Yash Muchhalia,	Renuka Pawar,	Categorizing Driving Patterns Based on Telematics Data Using Supervised And Unsupervised Learning	International Conference on Intelligent Computing and Control Systems	7000	IEEE Conference	5000
IT_8	2016140056	UG	Rahil Alkesh Sheth	Prasenjit Bhavathankar,	A Proficient Process for Systematic Inventory Management	International Conference For Emerging in Technology (INCET 2020)	12500	IEEE Conference	5000
IT_9	2016140055	UG	Rohit Manoj Sharma,	Prasenjit Bhavathankar	An Efficient Method to Provide Investment Avenues to Retail Investors	International Conference For Emerging in Technology (INCET 2020)	5000	IEEE Conference	5000
IT_10	2017140021 , 2017140030 , 2017140031	UG	Shubham Kejriwal, Bhumika Narwani, Jatin Nawani,	Radha Shakarmani	RFID RECOMMENDATION SYSTEM FOR RESTAURANTS	International Conference on Electrical, Electronics, Computer Science and Information Technology	4407		4407
IT_11	2017140062, 2017140049, 2017140063	UG	Sunit Vaidya, Naisha Shah, Kumail Virani	Prof. Kailas Devadkar,	Mumbai-55 A Survey: Mobile Cloud Computing in Education	2020 5th International Conference on Communication and Electronics Systems (ICCES) 2020	7000	IEEE Conference	5000

Sr.	UCID	Type	Applicant Name	Guide Name	Paper Title	Conf/Jour Name	Amount Requested	Remark	Sanctioned Amount
IT_12	2017140049, 2017140050, 2017140062	UG	Naisha Shah, Nitu Shah, Sumit Vaidya	Radha Shankarmani	Real Time Object Detection for Visually Challenged Persons	2020 4th International Conference on Intelligent Computing and Control Systems	7000	IEEE Conference	5000
IT_13	2017140045, 2017140035, 2017140046	UG	Viddhesh Sankhe, Tejas Paranjape, Janice Shah	Dr. Radha Shankarmani	Skill Based Course Recommendation System	IEEE INTERNATIONAL CONFERENCE ON COMPUTING, POWER AND COMMUNICATION TECHNOLOGIES (GUCON 2020)	4500	IEEE Conference	4500
IT_15	2017140037, 2017140041, 2017140044	UG	Tirth Parekh, Saurabh Rane, Bhavik Sanghvi	Dr. Radha Shankarmani	Emergency Situation Responder: An efficient accident response app	International Conference on IOT in Social, Mobile, Analytics and Cloud	7000	IEEE Conference	5000
IT_16	2017120019, 2017140048, 2017140052	UG	Vinayak Iyer, Kshitij Shah, Sheth	Sahil Kailas Devadkar	Virtual Assistant For The Visually Impaired	5th International Conference on Communication and Electronics Systems (ICCES)	6000	IEEE Conference	5000
IT_17	2017140035, 2017140036, 2017140045	UG	Tejas Paranjape, Vineet Paradhi, Kewal Shah	Varsha Hole	Video Steganography: Storing data in the transition of frames	3rd International Conference on Computer Networks and Inventive Communication Technologies (ICCNCT - 2020) 23rd & 24th July, 2020	9500	Springer Conference	5000
IT_18	2017140057, 2017140060, 2017140061	UG	Manas Sinkar, Parth Thosani, Jaydeep Vaghasiya	Radha Shankarmani	A Self Learning Chat-Bot From User Interactions and Preferences	INTERNATIONAL CONFERENCE ON INTELLIGENT COMPUTING AND CONTROL SYSTEMS (ICICCS 2020)	7000	IEEE Conference	5000
IT_19	2018240076, 2018240070, 2018240066	UG	Hemant Upadhyay, Shubham Phansekar, Yogesh Kamat	Varsha Hole	User Engagement Recognition using Transfer Learning and Multitask Classification	ICICI'20	7500	Springer Conference	5000
IT_20	2018240075, 2018240068, 2016140003	UG	Atique Siddiqui, Abhishek Mane, Meet Banwankar	Varsha Hole	Tailor-GAN Optimization using Log cosine hyperbolic function	International Conference on Computer Networks and Inventive Communication Technologies	9502	Springer Conference	5000
IT_21	2017140010, 2017140006, 2017140011	UG	Yashvi Desai, Harishankar Cranganoor, Parth Dosani	Aparna Halbe	Optimal Allocation and Scheduling of Buses	2020 4th International Conference on Intelligent Computing and Control Systems (ICICCS)	7000	IEEE Conference	5000
IT_22	2017140007, 2017140004,	UG	Rahul Ramesh Dalvi, Sudhanshu Chavan	Aparna Halbe	DETECTING A TWITTER CYBERBULLYING USING MACHINE LEARNING	4TH INTERNATIONAL CONFERENCE ON INTELLIGENT COMPUTING AND CONTROL SYSTEMS (ICICCS 2020)	7000	IEEE Conference	5000
IT_23	2017140014, 2017140013, 2017140015	UG	Yash Gandhi, Jaynil Gaglani, Shubham Gogate	Aparna Halbe	Unsupervised WhatsApp Fake News Detection using Semantic Search	4TH INTERNATIONAL CONFERENCE ON INTELLIGENT COMPUTING AND CONTROL SYSTEMS (ICICCS 2020) Vidya Bhayani's	7000	IEEE Conference	5000



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Munshi Nagar, Andheri (W),  
Mumbai-400 058.

Sr.	UCID	Type	Applicant Name	Guide Name	Paper Title	Conf/Jour Name	Amount Requested	Remark	Sansad Amount
IT_24	2017140009, 2017140003, 2017140001	UG	Ayushi Desai, Aniket Brahmecha, Riya Bhagat,	Aparna Halbe,	Novel Approach to Solve Rubik's Cube Using Advanced Fridrich CFOP Algorithm	4TH INTERNATIONAL CONFERENCE ON INTELLIGENT COMPUTING AND CONTROL SYSTEMS (ICICCS 2020)	7000	IEEE Conference	5000
IT_25	2018240069, 2108240073, 20188240074	UG	Dikshita Patel, Nisarg Shah, Vrushali Shah,	Varsha Hole,	Abstractive Text Summarization on Google Search Results	International Conference on Intelligent Computing and Control Systems (ICICCS 2020)	7000	IEEE Conference	5000
IT_26	2017140064, 2017140026, 2017140025	UG	Sagar Waghela, Divya Mogaveera, Vedant Mathur	Rupali Sawant	with Diet and Fitness Recommendation using Machine Learning	Inventive Computation Technologies (ICICT 2021)	7000	IEEE Conference	5000
IT_27	2017140030, 2017140031, 2017140042	UG	Bhumika Narwani, Jatin Nawani, Kareena Redij	Aparna Halbe	A Quantitative approach to create a Hybrid stock Filtering Platform	Third International Conference on Intelligent Sustainable Systems (ICISS 2020)	7000	IEEE Conference	5000
IT_29	2017140046, 2017140050, 2017140058	UG	Janice Shah, Niti Shah, Rahul Solanki	Sheetal Chaudhari	Portfolio management using Beetle Swarm optimization with penalty method	6th International Conference on Inventive Computation Technologies (ICICT 2021)	7000	IEEE Conference	5000
ETRX-1	2017110063, 2017110002, 2017110004	UG	Vinay Vishnani, Anikait Adhya, Chinmay Bajpai	Priya Deshpande, Kumar Khandagle	Manhole detection using image processing on Google Street View imagery	3rd International Conference on Smart Systems and Inventive Technology (ICSSIT 2020)	7000	IEEE conference	5000
ETRX-2	2017110046, 2017110043, 2017110052	UG	Rahul Ramakrishnan, Ayusha Pendse, Chetna Sharma	Prof Priya Deshpande,	Speed Breaker Detection and Mapping using IoT	International Conference on Smart Systems and Inventive Technology 2020	7000	IEEE conference	5000
ETRX-3	2017110005, 2017110006, 2017110007	UG	Nikhil Barhate, Sahil Bhave, Rugved Bhise	Dr Rajendra G Sutar, Dr. Deepak C. Karia	Reducing Overfitting in Diabetic Retinopathy Detection using Transfer Learning	2020 IEEE 5th International Conference on Computing Communication and Automation (ICCCA)	4500	IEEE Conference	4500
ETRX-5	2017110008, 2017110030, 2017110022	UG	Janhavi Bhopale, Arthav Mane, Raksha Jain	Prof. Priya Deshpande	A Low-Cost Implementation of an IoT based Food Ordering System	10th international conference on computational intelligence and information technology 2020	5500	IEEE Conference	5000
COMP-1	2017130001 ,2017130003 ,2017130026 ,2017130009	UG	Harsh Agarwal, Bhavya Ahir, Somil Jain, Harshit Barot	Pramod Bide	Minimization of Food Waste in Retail Sector using Time-Series Analysis and Object Detection Algorithm	2020 International Conference for Emerging Technology (INCET) Belgaum, India Jun 5-7, 2020	8000	IEEE Conference	5000
comp2	2017130029 ,2017130026 ,2017130034 ,2017130001	UG	Romit Vinod Kankaria, Somil Kiran Jain, Arya Kothari, Harsh Agarwal	Pramod Bide	Alert System for Drivers based on Traffic Signs, Lights and Pedestrian Detection	2020 International Conference for Emerging Technology (INCET) Belgaum, India Jun 5-7, 2020	8000	IEEE Conference	5000
comp3	20171334, 20171309, 20171303 ,20171329	UG	Arya Kothari Harshit Barot, Bhavya Ahir, Kankaria	Romit	Analysis and Prediction for the Indian Premier League	2020 International Conference for Emerging Technology (INCET) Belgaum, India Jun 5-7, 2020	8000	IEEE Conference	5000

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Sr.	UCID	Type	Applicant Name	Guide Name	Paper Title	Conf/Jour Name	Amount Requested	Remark	Sanctioned Amount
comp4	2016130022	UG	surabhi ghankutkar , Neelabh Sarkar , Pooja Gajbhiye , Sanyukata Yadav	Dr. D. R. Kalbande , Prof Nida	Modeling Machine Learning for analysing crime news	international conference on advnces in computing,communication and control	5000	IEEE Conference	5000
comp5	2016130046 , 2016130008 , 2016130013	UG	piyush pandita , mohit bhatt , harshit chedda	jyoti ramteke	Determining User Behaviour Using System Calls To Prevent Internal Intrusions	"IEEE 5th International Conference on Computing, Communication and Automation (ICCCA)	4500	IEEE Conference	4500
Comp 7	2016130028 , 2016130032 , 2016130027,	UG	Damnik Mahendrakumar Jain, Ira Kawthalkar Siddhesh Jadhav,	Anant Nimkar	A Survey of Predictive Crime Mapping Techniques for Smart Cities	[INCETSTEA 2020] IEEE -National Conference on Emerging Trends on Sustainable Technology and Engineering Applications	13654	IEEE Conference	5000
comp8	2017230075 , 2016130040 , 2016130009 , 2016130028	UG	Pritesh Kamde Mihir Makwana , Ross Carvalho, Damnik Jain	Dayanande Ambawade	Context Intelligent Crypto-Switching Algorithm for Document Security in Cloud Environment	- 5 th International Conference on Inventive Computation Technologies (ICICT 2020)	6500	IEEE Conference	5000
comp9	2017130027 , 2017130030 , 2017130018.	UG	Parth Jardosh, Anjali Kanvunde, Anish Dixit	surekha dholay	Detection of Flood Prone Areas by Flood Mapping	3rd International Conference on Smart Systems and Inventive Technology (ICSSIT)	7000	IEEE Conference	5000
comp10	2017130027 , 2017130056.	UG	Parth Jardosh Shloka Shah.	Pramod Bide	Key Towards Modern Waste Management of SAR Imagery	2020 International Conference for Emerging Technology (INCET)	8000	IEEE Conference	5000
comp11	2017130012 , 2017130010 , 2017130017.	UG	Apoorva Chaudhari, Manasi Beldar, Riya Dichwalkar.	surekha dholay	Crop Recommendation and its Optimal Pricing using ShopBot	2020 International Conference on Smart Electronics and Communication (ICOSEC)	7000	IEEE Conference	5000
comp12	2017130050 , 2017130060,	UG	Abhishek Revadekar, Rahul Soni.	Anant Nimkar	QORAI: Q Learning based Delivery Optimization for Pharmacies	2020 11th International Conference on Computing, Communication and Networking Technologies (ICCCNT)	6900	IEEE Conference	5000
comp13	2017130033 , 2017130044 , 2017130022 , 2017130024	UG	Rushabh Vipul Khara, Deepika Sitaram Pomendkar, Rishika Anilkumar Gupta,Ishwarlal Manikumar Hingorani	Dr. D. R. Kalbande	Micro Loans for Farmers	2020 11th International Conference on Computing, Communication and Networking Technologies (ICCCNT)	6500	IEEE Conference	5000
comp14	2017130006 , 2017130007 , 2017130012 , 2018230068	UG	Mohit Sanjay Badve, Vinal Bagaria, Apoorva Chaudhari, Palak Davda	Dr. D. R. Kalbande	Garbage Collection System Using IoT for Smart City	4th International conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) I-SMAC 2020	7000	IEEE Conference	5000
comp15	2017130024 , 2017130033 , 2017130044,	UG	Ishwarlal Hingorani, Rushabh Khara, Deepika Pomendkar	Natasha Raul	Police Complaint Management System using Blockchain Technology	3rd International Conference on Intelligent Sustainable System (ICISS 2020)	7000	IEEE Conference	5000
comp16	2017130017 , 2017130039 , 2017130047,	UG	Riya Dichwalkar, Shreya Oak, Tamia Rajabally,	Dr Dhananjay Kalbande,	Activity Recognition and Fall Detection in Elderly People	2020 11th International Conference on Computing, Communication and Networking Technologies (ICCCNT)	7700	IEEE Conference	5000



Sr.	UCID	Type	Applicant Name	Guide Name	Paper Title	Conf/Jour Name	Amount Requested	Remark	Sansad. Amount
comp17	2017130007, 2017130006, 2017130010,	UG	Vinal Bagaria, Mohit Badve, Manasi Beldar,	Sunil Ghane	An Intelligent System for Evaluation of Descriptive Answers	3rd International Conference on Intelligent Sustainable Systems (ICISS 2020)	7000	IEEE Conference	5000
comp18	2018230074, 2018230072, 2018230073,	UG	Om M. Rajpurkar, Siddesh S. Kamble, Jayram P. Nandagiri,	Anant Nimkar	Alert Generation on Detection of Suspicious Activity Using Transfer Learning	2020 11th International Conference on Computing, Communication and Networking Technologies (ICCCNT)	7700	IEEE Conference	5000
comp20	2017130050 2017130039 2017130023	UG	Abhishek Revadekar Shreya Oak Aumkar Gadekar	Pramod Bide	Gauging attention of students in an e-learning environment	4th IEEE Conference on Information and Communication Technology	7681	IEEE Conference	5000
						Total			361407

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*Sundarji*  
 Principal  
 Bharatiya Mata Ghavan's  
 Sardar Patel Institute of Technology  
 Munshi Nagar, Andheri (W),  
 Mumbai-400 058.



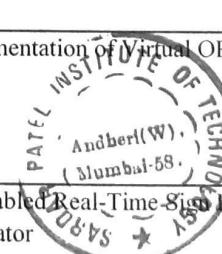
Bharatiya Vidya Bhavans'  
 Sardar Patel Institute of Technolog  
 Munshinagar, Andheri(W), Mumbai-400058  
 (Autonomous College Affiliated to University of Mumbai)

**Research And Development Committee**  
**Summery report 2019-20**

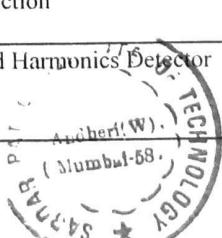
Sr.	UCID	Type	Applicant Name	Guide Name	Paper Title	Conf/Jour Name	Sanctioned
Comp-1	2015130001 2015130022 2015130033	UG	Punit Mukesh Ahuja, Rakshit Gupta, Yogesh Mahajan,	Jyoti Ramteke,	Portfolio Management using artificial intelligence	ICAIAA 2019	5000
comp-2	2015130042 2015130054	UG	Rahul Paknikar, Shrey Shah,	Dr. Prachi Gharpure,	Wireless IoT based Solution for Women Safety in Rural Areas	4th International conference on communication and Electronics Systems (ICCES 2019)	5000
comp-3	2015130040 2015130037 2015130059 2015130062	UG	Ananya D. Ojha, Ananya Navelkar, Jainam Soni, Sai Yerremreddy	Prof. Pramod Bide,	A Two stage approach for Detection of Invasive and Cervical Intra-epithelial Neoplasia using Machine Learning and Image Processing Methodologies	ICATIECE - 2019	5000
comp-4	2015130005 2015130006 2015130020	UG	Mandar Bhalerao, Aditya Bhave, Shlok Gujar,	Anant V Nimkar,	Visual Question Answering Using Video Clips	IBSSC 2019, IIT Bombay	5000
comp-5	2017430003	UG	Akhilesh Vilas Kashikar, ,	Prof. Jyoti Ramteke,	Dual Sentiment Classification with Sarcasm Identification	IEEE Bombay Section Signature conference 2019	5000
comp-6	2016130047 2016130064 2016130006	UG	Jinay Parekh, Poojan Turakhia, Hussain Bhinderwala,	Sudhir N. Dhage,	Image Enhancement in Security Systems using Machine Learning	Springer Book Series On "Advances in Intelligent Systems and Computing"	5000
comp-7	2015130004 2015130018 2016230071	UG	Samriddha Basu, Raj Gite, Pratiksha Singh	Prof. Nataasha Raul,	Multi-user Adaptive Launcher for Android	Twelfth International Conference on Contemporary Computing (IC3) 2019	5000
comp-8	2016130002 2016130050 2016130060	UG	Vaibhav Bagri, Bhaktij Patil, Lekha Sharma,	Dr. Sudhir Dhage,	Survey of Automated Waste Segregation Methods	The 4th International conference on computer communication and computational sciences	5000
comp-9	2016130036 2016130025 2016130040	UG	Anirudh Kamath, Rahul Guhekar, Mihir Makwana,	Dr. Sudhir Dhage,	Sarcasm Detection Approaches Survey	The 4th International conference on computer communication and computational sciences	5000
comp-10	2016130038 2016130007	UG	Advait Lad, Shivani Butala, ,	Pramod Bide,	Comparative Analysis of Over-The-Top Platforms : Amazon Prime Video and Netflix	International Conference on Communication and Intelligent System (ICCIS-2019)	5000
comp-11	2016130014	PG	Tejas Chheda, Hussain Bhinderwala, Priyansh Acharya, Anant V Nimkar	Anant VTE OF Nimkar, Andheri(W), Mumbai-58. Date: 10/01/2020	Diet and Health Advisory Mechanism from Facial features using Machine Learning	18th International Conference on Information Technology	5000

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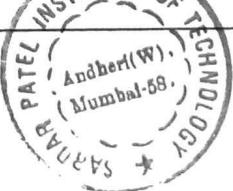
Comp-12	2015130062 2015130004 2015130040	UG	Sai Yerramreddy, Samriddha Baruah, Anchal Ojha,	Dhananjay Kalb	Machine Learning approach for diagnosis of Autism spectrum disorder	International conference on Innovative computing and communication (ICICC2019)	5000
Comp-13	2016130018 2016130023 2016130042	PG	Kevin Doshi, Shreya Gokhale, Hemal Mamtoria,	Pramod Bide,	Analytics and Visualization of Trends in News Articles	2019 IEEE International Conference on Advances in Computing, Communication and Control (ICAC3'19)	5000
ETRX-2	2015110047 2015110011 2015110052	UG	Divya Sawant, Anchal Jaiswal, Jyoti Singh	Payal Shah,	Agribot-An intelligent interactive interface to assist farmers in agricultural activities	IEEE Bombay Section Signature Conference(IBSSC 2019)	5000
ETRX-3	2016110007 2016110008 2016110025	UG	NALIN CHANDELIYA, PRASHANTH CHARI, SAMEERAN KARPE,	Dr. Deepak C Karia,	RELIABLE MACHINE TO MACHINE COMMUNICATION USING MQTT PROTOCOL AND MEAN STACK	International conference on innovation data communication technologies and application(ICIDCA 2019).	5000
ETRX-4	2016110052 2016110056 2016110011	UG	Rohit Sathye, Mandar Surve, Sumedh Deshprabhu,	Dr.Deepak.C.Karia,	Smart Medicine Distributing Tray	International Conference on Innovative Data Communication Technologies Springer	5000
EXTC-1	2016120019 2016120038 2016120040	UG	Pranav Jaguste, Wesley Pereira, Sopan Phaltankar,	Dr. Sujata Kulkarni,	IOT BASED SYSTEM FOR WASTE SEGREGATION AND DETERMINING AN OPTIMISED PATH FOR WASTE COLLECTION	ICIESMT-19	5000
EXTC-2	2018420003	PG	Sanjana Sanjay Ingale, , ,	Milind Paraye, Prof. Dayanand Ambawade	A Survey On Methodologies For Multi-step Attack Prediction	4th International Conference on Inventive Systems and Control	5000
EXTC-3	2016120039 2016120034 2016120052	UG	Rashmi Phadnis, Sumedh Naik, Nivea Sharma,	Prof. Manish Parmar, 0	Real Time Asset Tracking using BLE Beacons	IEEE global Conference for Advancement In Technology	5000
EXTC-4	2016120034 2016120039 2016120036	UG	Sumedh Naik, Rashmi Phadnis, Yash Patil,	Prof. Vijaya Kamble,	Basic Logic Gate Detector Using Atmega328P and Android App	IIInternational Confrerence on Computing, Communication, Information Security and Analysis	5000
EXTC-5	2016120038 2016120057 2016120051	UG	Wesley Pereira, Tarun Joseph, Ahmed Shaikh, Sumedh Naik	Dr. Y. S. Rao,	Aquaculture Monitoring and Feedback system	IEEE International Symposium on Smart Electronic Systems	5000
EXTC-6	2016120016 2016120046	UG	Bhavin Ingle, Rachit Rathi, ,	Prof. Dayanand Ambawade, Prof. Rajendra R Sawant	Implementation of Virtual OPC on Cloud	TENCON 2019 <i>S. Bhavani</i> Principal Bharatiya Vidya Bhavan's	5000
EXTC-7	2016120036 2016120047 2016120024	UG	Yash Patil, Sahil Krishnadas, Adya Kastwar,	Dr. Sujata Kulkarni,	AI-Enabled Real-Time Sign Language Translator	INTERNATIONAL CONFERENCE ON SOFT COMPUTING AND SIGNAL PROCESSING Munshi Nagarkar College of Engineering & Technology Mumbai-58.	5000



EXTC-8	2015120002 2015120011 2015120015	UG	Bhusari Ankita, Gupta Neha, Kambli Vinay	Prof. Sukanya Kulkarni, 0	Comparison of SVM and kNN classifiers for palm movements using sEI signals with different features	ICCMC 2019	5000
EXTC-10	2015120006 2015120009 2015120010	UG	Girija Deshmukh, Apurva Gaonkar, Gauri Golwalkar,	Prof. Sukanya Kulkarni	Speech based emotion recognition using Machine Learning	ICCMC 2019	5000
EXTC-11	2017420001	PG	Shoeb Ahmed, , ,	Dr. Y. S. Rao,	Toxic Gas Detection and Analysis using IoT	ICIECE - 2019	5000
EXTC-12	2017420007	PG	Shraddha Gaikwad, , ,	Dr. Preetida	Pre-processing of SAR Images through Compressed Sensing	International Conference on Electronics Communication and Aerospace Technology	5000
EXTC-14	2015120033	UG	Prathamesh Pai, Himani Mukne, Saish Raut,	Prf. Dayanand Ambawade,	Land Record Management using hyperledger Fabric and IPFS	ICCCNT 2019	5000
EXTC-15	2017420011	PG	Ariston Rodrigues	K. T. Talele,	Real time Facial Expression Recognition using Grid of Local Binary Pattern and Histogram of Gradients and Genetic Algorithm on Raspberry Pi	FOURTH INTERNATIONAL CONFERENCE ON COMMUNICATION AND ELECTRONICS SYSTEMS (ICCES 2019)	5000
EXTC-16	2017420006	PG	Anand Mahadeorao Dhobaley,	Prof. Dayanand D. Ambawade,	Discovery, Assessment and Risk Calculation Framework for Connected Automated Vehicles	ICECA-2019	5000
EXTC-17	2017420010	PG	Rahul Khandare,	Dr. D. C. Karia,	Low Isolation based dual band MIMO antenna for WiMax and X band Applications	International conference on Intelligent Sustainable Systems (ICISS) 2019	5000
EXTC-19	2017420005	PG	Anjali D. Channagire,	Prof. Anand Mane	Performance Analysis of Long Term Evolution (LTE) Medium Access Control (MAC) Scheduler for Real-Time	ICICCS 2019	5000
EXTC-20	2014120061	UG	Madhav Wagh, Niraj Kumar Solanki, Kailas Yedle,	Dr. Y. S. Rao,	Evaluation of Image Processing Techniques on a single chip Digital Signal Processor	International conference on Electronics, communication and Aerospace Technology	5000
EXTC-21		UG	Tanvi Ghole Shruti Karande Harshita Morlikar	Dr. Sujata Kulkarni	Smart Health care data Acquistition system	International conference on IoT Social Mobile Analytics and cloud in computation vision and Bio	5000
EXTC-22	2015120035 2015120059 2015120013	UG	Vedant Pawar Vinay Vishawkarma Alan Jacob	Anand Mane	Deep Learning Approach to video Compression	IBSCC 2019	5000
EXTC-23	2015120054		Simran Tiwari	Dr. Preetida Jani,	Morphius: A Self-configuring modular robot that navigates through cracks and debris for inspection	21st International Conference on Distributed Computing and Networking (ICDCN-2020)	5000
EXTC-24	2016120002 2016120005 2016120007	PG	Shrawani Bawage, Parth Ambalkar, Tejas Autkar,	Prof. Rajendra Sawant, 0	Third Harmonics Detector	Global conference for advancement in technology Bharati Vidyabhavan's Sardar Patel Institute of Technology Munshi Nagar, Andheri (W), Mumbai - 400 058	5000

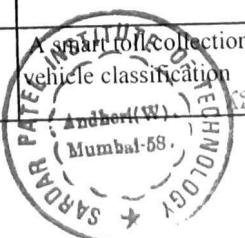


EXTC-26	2016120060 2016120057	PG	Kirti Tyagi, Tarun Joseph,,	Dr. Y.S. Rao,	Portable Gas Detection Device With Warning System	IEEE Global Conference for Advancement In Technology	5000
EXTC-27	2016120048 2016120047 2016140015 2016120036	PG	Mitesh Sarode, Ayush Ghanekar, Sahil Krishnadas, Yash Patil	Prof. Manish Parmar, 0	Intelligent Blood Management System	IBSCC 2019	5000
EXTC-28	2016120051 2016120048 2016120047	PG	Ahmed Shaikh, Mitesh Sarode, Sahil Krishnadas,	Dr. Reena Sonkusare,	Number Plate Recognition System	Global Conference for Advancement in Technology	5000
EXTC-31	2017420004	PG	Saurabh Bhosale, , ,	Prof. Manish Parmar, Prof. Dayanand Ambawade	A taxonomy and Survey of Manifold Resource Allocation Techniques of IaaS in Cloud Computing	ICSCN 2019	5000
EXTC-32	2016120052 2016120043 2017220074	UG	Nivea Sharma, Meghna Prabhu, Simran Kaur Rogi,	Dr. Reena Kumbhare,	Implementation of Sound Effects on Audio Signals	Global Conference for Advancement in technology (GCAT)	5000
EXTC-33	2016120035 2016120054 2016120018 2016120013	PG	Saurabh Parulekar, Shreeram Narayanan, Soham Jagtap, Arnold Fonscea	Prof Dayanand Ambawade	Road-Borne light powering System	IEEE INternational Symposium on Smart Electronic Systems 2019	5000
EXTC-34	2016120013 2016120054 2016120028	PG	Arnold Fonscea, Shreeram Narayanan, Yash Kothari	Prof Manish Parmar	Pulse-Density Modulation using FPGA	IEEE global Conference for Advancement In Technology 2019	5000
EXTC-35	2016120066 2016120027 2016120018	UG	Lavesh Jain, Siddhi Korad, Soham Jagtap	Prof Dayanand Ambawade	Smart Cane For The Blind	Global Conference for Advancement in Technology	5000
EXTC-36	2016120014 2016120013	UG	Sadjyot Gangolli, Arnold Fonseca	Dr. Reena Sonkusare,	Image Enhancement using various Histogram Equalization Technique	Global Conference for Advancement in Technology	5000
IT-1	2016140024 2016140031	UG	Madhur Kabra, Tanay Kulkarni, ,	Dr. Radha Shankarmani,	User Profiling Based Recommendation System for E-Learning	IEEE Indicon 2019	5000
IT-3	2016140031	UG	Tanay Kulkarni, , ,	Kailas Devadkar,	Potential Customer classification in Customer Relationship	International Conference on Innovative Data Communication	5000
IT-4	2017240071 2017240077 2017240079	UG	Mrunal Chopade, Sana Khan, Uzma Shaikh,	Renuka Pawar,	Digital Forensics : Maintaining Chain of Custody using Blockchain	ISMAC 2019	5000
IT-5	2015140008 2015140011 2015140022, faculty	UG	Gaurav Bhagchandani, Deep Bodra, Abhishek Gangan, Prof. Nikahat Mulla	Prof. Nikahat Mulla,	A Hybrid Solution To Abstractive Multi-Document Summarization Using Supervised and Unsupervised Learning	International Conference on Intelligent Computing and Control Systems [ICICCS 2019]	5000



*Sehgal*

IT- 6	2016140022 2016140021 2016140024	UG	Sahil Jobanputra, Mukesh Jha, Madhur K	Prof. Rupali Sawant,	Automation of Cheque Transaction using Deep Learning and Optical Character Recognition	Smart Systems and Inventive Technology (ICSSIT 2019)	
IT-7	2016240068	UG	Roshni Pal, Utkarsha Pawar, Karishma Zambare,	Prof. Varsha Hole,	Impact of Twitter Data and News Articles on Stock Market	2nd International Conference on Computer Networks and Inventive Communication Technologies [ICCNCT 2019], 23-24 May 2019	5000
IT-11	2016140062 2016140061 2016140064	UG	Sudhanshu Upadhyay, Rohan Trigune, Gaurav Yadav,	Nikahat Mulla,	Attention Based Encoding and Decoding of Convolutional Neural Networks	International Conference on Smart Systems and Inventive Technology (ICSSIT 2019).	5000
IT-12	2016140023 2016140035 2016140041	UG	Sayed Azain Jaffer, Raj Mehta, Siddharth Pandey,	Dr. Prasenjit Bhavathankar,	Blockchain Based Direct Benefit Transfer System For Subsidy Delivery	Springer - 2nd International Conference on Data Science, Machine Learning & Applications(ICDSMLA)	5000
IT-13	2015140042 2016240070 2016240065	UG	SAGAR PATIL, AKSHAY SHAH, SHUBHAM DALVI,	JIGNESH SISODIA,	Early Detection of Hemiplegia by Analyzing the Gait Characteristics and Walking Patterns Using Convolutional Neural Networks	INTERNATIONAL CONFERENCE ON SOFT COMPUTING AND SIGNAL PROCESSING	5000
IT-14	2016140025 2016140021 2016140022	UG	Divya Kamath, Mukesh Jha, Sahil Jobanputra,	Prof. Varsha Hole,	Creation Of Face For Aiding In Forensic Investigation Based On Textual Description.	The International Conference on Inventive Systems and Control(ICISC)	5000
IT-15	2016140029 2016140022 2016140021	UG	Varsha Kukreja, Sahil Jobanputra, Mukesh Jha,	Dr. Radha Shankarmani,	The Universal Research Portal	International Conference on Convergence to Digital World Quo Vadis (ICCDW- 2020)	5000
IT-16	2015140007 2015140024 2015140006	UG	Bhaskar Barua, Clarence Gomes, Shubham Baghe,	Prof. Jignesh Sisodia,	A Self-Driving Car Implementation using Computer Vision for Detection and Navigation	International Conference on Intelligent Computing and Control Systems [ICICCS 2019]	5000
IT-18	2016140063 2016120047 2016120036	UG	Mukund Vora, Sahil Krishnadas, Yash Patil,	Prasenjit Bhavathankar,	Cellular Device Detection in Restricted Premises	2019 Global Conference for Advancement in Technology(GCAT)	5000
IT-19	2016140002 2016140007 2016140006	UG	Bagadia Uzair, Bodkurwar Jayant, Bhat Jnanesh,	Aparna Halbe,	Decentralized system for Fundraising using Ethereum	International Conference on Inventive Computation Technologies	5000
IT-20	2015140003 2015140054 2015140001	UG	AnandPrakash Arya, Parth Tamane, Shreya Ail	Dr. Radha Shankarmani,	Self Employment Opportunities search using web crawling	IEEE- International conference on Intelligent Computing and control system ICICCs 2019	5000
IT-21	2015140035 2015140014 2013140002	UG	Sushrut P. Madahvi Aman Dahiya Pranav Bhandari	Prasenjit Bhavathankar,	A smart toll collection system based on vehicle classification	IEEE- International conference on Intelligent Computing and control system ICICCs 2020	5000



Principal  
Roshni Pal, Utkarsha Pawar, Karishma Zambare,

MCA-2	2016450033 2016450003	PG	Pratiksha Pandev, Karishma Bhai ,	Prof. Harshil T. Kanakia, Dr. Pooja Raundale	Analysis of Recommendation Model For E-commerce Websites Based Rating Dataset	ICRETM - 2019	5000
MCA -5	2016450051 2016450053	PG	Jimit M Shah, Giridhar P Shenoy, ,	Prof. Harshil T. Kanakia, Dr. Pooja Raundale	Cambridge Analytica - A Case Study	ICRETM - 2019	5000
MCA-6	2016450045 2016450014	PG	Drashti Rathod, Debasish Goswami, ,	Prof. Sakina Shaikh, Prof. Mayura Nagar	Crime spot Detection for chain Snatching using Data Mining	ICACM 2019	5000
MCA-8	2016450005, 2016450050	PG	Ryan Britto , Rohit Sawardekar,	Prof. Harshil T. Kanakia, Dr. Pooja Raundale	Analysis of Social Networks using Naive Bayes	ICICCS 2019	5000
MCA-9	2016450059	PG	Digvijay Yadav, , ,	Prof. Sakina Salmani,	Deepfake: A Survey on Facial Forgery Technique Using Generative Adversarial Network	International Conference on Intelligent computing and Control Systems	5000
						Total	335000

UG		PG.	
ETRX	15000	EXTC	70000
EXT C	80000	COMP	10000
COMP	55000	MCA	25000
IT	80000		
Total UG	230000	Total PG	105000

## R & D Student Coordinators

R & D Student Coordinators	
Dr. Aarti Karande	<u>Aarti</u>
Prof. Pritam	<u>Preetam</u>
Prof. Nikhat Mulla	<u>Nikhat</u>
Dr. Amol Deshpande	<u>Amol</u>
Prof. Najib Gatte	<u>Najib</u> → R & D eep

## Principals



Bharatiya Vidyा Bhawan  
dar Patel Institute of Technology  
Munshi N. Aundheri (W),  
Mumbai 400 058

Social budget (publicati  
A student's budget &  
can be combined  
as faculty,  
or as publication  
and research.  
Sisterhood.

Dr. Y.S. Rao  
Dean R & D & Principal

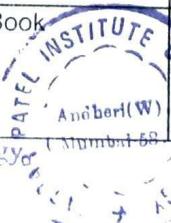


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 Sardar Patel Institute of Technology  
 Munshinagar, Andheri(W), Mumbai-400058  
 (Autonomous College Affiliated to University of Mumbai)

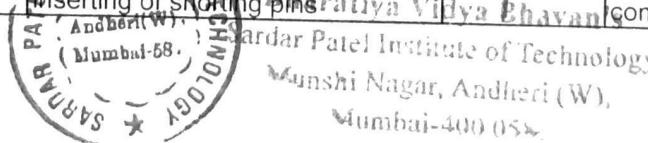
**Research And Development Committee**  
**List of students for Reimbursement of Technical Paper Publication Fees 2018-19 (First Half)**

Sr No.	A. Sr No	Student Name	Branch	Title of the Paper	Guide	Name of the Conference / Journal	Date	Paper Fees	Sanctioned Amount
1	5	John Britto	B. E. Computer Engineering	A Sixth Sense Door using Internet of Things	Jyoti Ramteke	Springer- International Conference on Computer Networks and Inventive Communication Technologies ICCNCT 2018	26/04/2018	7000	5000
2	8	Atharva Patil Karan Bheda Nishita Upadhyay	B. E. Information Technology	Restaurant's Feedback Analysis Systsem using Sentimentsl Analysis and Data Mining Techniques	Rupali Sawant	ICCTCT 2018	01/03/2018	7000	5000
3	10	Aditi Gavhane Gouthami Kokkula Isha Pandya	B. E. Information Technology	Prediction of Heart Disease Using Machine Learning	Kailas Devadker	IEEE international conference on Electronics , Communication and Aerospace Technology ICECA 2018	29-31/03/2018	5500	5000
4	11	Jainesh Rathod Aniruddh Sodha Vishal Waghmade	B. E. Information Technology	Diagnosis of skin diseases using Convolutional Neural Networks	P. Bavathankar	IEEE international conference on Electronics , Communication and Aerospace Technology ICECA 2018	29-31/03/2018	5500	5000
5	13	Grishma Alshi Mikhil Cazi Mansi Dandiwala	B. E. Information Technology	Interactive Augmented Reality based system for Traditional educational media using Marker derived contextual overlays	Renuka Pawar	IEEE international conference on Electronics , Communication and Aerospace Technology ICECA 2018	29-31/03/2018	5500	5000
6	14	Krushi Damania	B.E. Information Technology	An overview of VM Live migration strategies and Technologies	P. Bavathankar	IEEE international conference on Electronics , Communication and Aerospace Technology ICECA 2018	29-31/03/2018	5500	5000
7	16	Prithvirah Patil Akshay Rathod Saurabh Yadav	B.E. Information Technology	Vitamins and Minerals Diagnosis using neural network	Varsha Hole	International Conference on INventive communications and computational Technologies ICICCT 2018	20-21/04/2018	5500	5000
8	17	Rohit Darekar Rohan Parabh Karan Dayma	B.E. Information Technology	A Hybrid model for Book Recommendation	Swapnali kothade	International Conference on INventive communications and computational Technologies ICICCT 2018	20-21/04/2018	5500	5000

Munshi Nagar, Andheri (W), Mumbai-400 058



S. No.	A. Sr No	Student Name	Branch	Title of the Paper	Guide	Name of the Conference / Journal	Date	Paper Fees	Sanctioned Amount
9	19	Aishwarya shete Tejas Patil Atul Lahade	B.E. Information Technology	DHC protocol using OTP based two factor authentication	Renuka Pawar	International conference on trends in electronics and informatics ICOEI 2018	11-12/05/2018	5750	5000
10	23	Jaspreet Kaur Bharma Anan Ansari Vishal Naidu	B.E. Information Technology	G-PY : A Game playing AI to simulate real time close quarter firefights using 3D first person shooter games	Jignesh Sisodia	IEEE international conference on Electronics , Communication and Aerospace Technology ICECA 2018	29-31/03/2018	5500	5000
11	24	Urvi Paithankar Neeti Prabhupathkar Aarfah Ahmad	B.E. Information Technology	A study of factors leading to stress in indian college students	swapnali Kurhade	international conference on innovation, information in computing technologies ICIICT	22-23/02/2018	6000	5000
12	25	Sean Pereira	B.E. Electronics Engineering	AI Use Cases in Operational Support Sysytem and Buisness Support Systems	Dr. D.C. Karia	3rd International Conference on Communication and Electronics Systems(ICCECS2018)	15-16 OCT 2018	6250	5000
13	27	Monodeep Mukharjee Pratik Thorwe	B.E EXTC	Sensor Data Analysis Using Moving Average Filer and 256-Point FTT for wireless Sensor Networks	Dr.Y Srinivas Rao	9th International Conference on computing ,Communication and networkign technologies	4 Oct 2018	4500	4500
14	28	Vishal Dubal	ME EXTC	A low power High performance sensor node for IOT	Dr. Y Srinivas Rao	2nd International conference on Intelligent computing and controlsystem	14-15 June 2018	5000+ 3000+ 8271	5000
15	29	Juhi Patil	ME EXTC	Low profile UHF RFID tag Antenna	Manisha Bansode	3rd intenraitonal conference onresent trends in computer science	24-25 April 2018	2500	2500
16	30	Deepiksha Sharma	ME EXTC	network lifetime enhancement using improved honey bee optimizationbased routing protocol for WSN	Sukanya Kulkarni	2nd internation conference on inventive communiation and computataional technologies	20-21 April 2018	5500	5000
17	31	Narbada Jhadwa	ME EXTC	A hybrid apparoach for MRI based statstiscal feature extaration to detect brain tumo.	rajendra sutar	IOSR journal of VLSI and signal processing	Mar. April 2018	3850	3850
18	34	Ashwin Nikam	ME EXTC	opinion metric based intrusion detection mechanism for RPL protocol in IOT	Dayanand Ambavade	3rd international conference for convergence in technology 2018	6-8 April 20118	5075	5000
19	35	pallavi korde	ME EXTC	efficient energy harvesting by using thermoelectric module	Vijaya kamble	informatoin and communication technology for intelligent system	6-7 april 2018	12637+ 5415+ 5416	5000
20	36	Jayesh Patil	ME EXTC	design of circularly polarized microstrip patch antenna with inserting of snorting pins	Dr. D. C. Karia	international conference on inventive communicaiton and computational technologies 2018	20-21 april 2018	5500	5000



Dr. Babasaheb Ambedkar Patel Institute of Technology  
Mawali, Pimpri Chinchwad, Maharashtra, India  
PIN - 411 014

A. S/ No.	Student Name	Branch	Title of the Paper	Guide	Name of the Conference / Journal	Date	Paper Fees	Sanctioned Amount
21	37 siddesh Arote	ME EXTC	reduction of mutual coupling between closely spaced patch antenna using meta material	Reena sonkusare	3rd international conference on recent trends in computer science and technology	24-25th April 2018	2500	2500
22	39 Ninad Chitnis Tanvi Joshi, Shreayas Padte, Shrinish Donde	BE Electronics Engineering	Hard Decoding Based Design of Regular LDPC using Labview	Dr. Deepak Karia	IEEE international conference on Current Trends in Converging Technologies 2018	4/3/2018	3000	3000
23	42 Eshaan Mudgal	B.E.EXTC	Template based real time speech recognition using digital filters onDSP - TMS 320F28335	Dr. Y.S.Rao	ICCUBEA 2018	16-18 Aug 2018	6000	5000
								Total 106350

UG	PG	EXTC	COMP
ETRX 8000	33850		
EXTC 9500	0		
COMP 5000	0		
IT 50000			
Total UG 72500	Total PG 33850		

Dr. Y.S. Rao  
Dean R & D

Dr. Prachi Gharpure  
Principal

Passed for payment of  
Rs 106350/-  
Q.M.  
Principal, S.P.I.T.

R & D Student Coordinators

Prof. Aarti Karande	MCA	<i>Amle</i>
Prof. Abhijit Salunke	COMP	<i>Amle</i>
Prof. Sheetal Choudhari	IT	<i>Amle</i>
Prof. Govind Haldankar	ETRX	<i>Amle</i>
Prof. Milind Paraye	EXTC	<i>Amle</i>

Rajkumar Waghmode



*Referred by Principal*  
Bharatiya Vidya Bhavan's  
Sardar Patel Institute of Technology  
Munshi Nagar, Andheri (W),  
Mumbai-400 058.

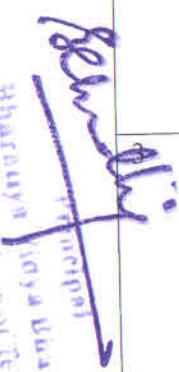
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11/3/19  
11/3/2019.

*Amle*  
11/3

## Alumni Start-Up

Sr. No.	Name	YEAR of Passing	Organization	Designation/ Area of	Email ID	Website	QR Code
1	Vikrant Potnis	2011 (IT)	Founder, Indian Academy of Venture Capital	Venture Capital	<a href="mailto:potnis.vikrant@gmail.com">potnis.vikrant@gmail.com</a>	<a href="https://www.linkedin.com/in/vikrant-potnis-70870158/">https://www.linkedin.com/in/vikrant-potnis-70870158/</a>	
2	Kartik Poddar	2007 ETRX	Founder	Conversational AI Platform	<a href="mailto:kartikpoddar@gmail.com">kartikpoddar@gmail.com</a>	<a href="https://haptik.ai/?utm_source=linkedin&amp;utm_medium=company-page&amp;utm_campaign=description">https://haptik.ai/?utm_source=linkedin&amp;utm_medium=company-page&amp;utm_campaign=description</a>	
3	Nishit Dungarwala	2016 COMP	WorkIndia	Co-founder & Tech Lead at Metershare and GetProfessor, Algorithm Trading at Credit Suisse	<a href="mailto:nishitdungarwal@gmail.com">nishitdungarwal@gmail.com</a>	<a href="https://www.workindia.in/about">https://www.workindia.in/about</a>	


  
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 Sardar Patel Institute of Technology  
 Sardar Patel Institute of Technology  
 Mumbai-400 058.



4	Sameer Nigam	Computer 1999	Phone Pe	Co Founder	<a href="mailto:sameernigam@gmail.com">sameernigam@gmail.com</a>	<a href="http://www.phonepe.com">www.phonepe.com</a>	
5	Rahul Chari	Computer 1999	Phone Pe	Co Founder	<a href="mailto:rahulchari@gmail.com">rahulchari@gmail.com</a>	<a href="http://www.phonepe.com">www.phonepe.com</a>	
6	Darshan Savlia	2015 COMP	SKinzy Start-up	Co founder App Development	<a href="mailto:ksdarsh@gmail.com">ksdarsh@gmail.com</a>	<a href="http://skinzy.in/">http://skinzy.in/</a>	
7	Dalvir Suri	IT 2009	Dunzo	Founder	<a href="https://www.linkedin.com/in/dalvirsuri/">https://www.linkedin.com/in/dalvirsuri/</a>	<a href="https://www.dunzo.com/">https://www.dunzo.com/</a>	



Principal  
 Bharatiya Vidyabhavan's  
 Sardar Patel Institute of Technology  
 Munshi Nagar, Andheri (W).  
 Mumbai-400 058.

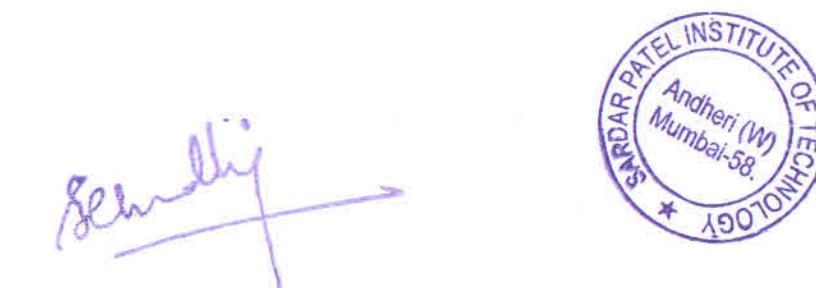


8	Ruchir Kanakia	2013 EXTC	Start-up	Owner	<a href="mailto:ruchir.kanakia@gmail.com">ruchir.kanakia@gmail.com</a>	<a href="http://goplannr.org/">http://goplannr.org/</a>	
9	Chirag Kataruka	2013 EXTC	Start-up	Data Analytics and AI	<a href="mailto:chirag.kata@gmail.com">chirag.kata@gmail.com</a>	<a href="https://www.swvl.com/">https://www.swvl.com/</a>	
10	Dr.Prashant Nair	2009 ETRX	In CANADA University	Professor /Incubator	<a href="mailto:prashantnair@gmail.com">prashantnair@gmail.com</a>	<a href="https://www.ece.ubc.ca/faculty/prashant-nair">https://www.ece.ubc.ca/faculty/prashant-nair</a>	
11	Ankit Misra	IT 2013	Chase	Co Founder	<a href="mailto:ankit.misra@gmail.com">ankit.misra@gmail.com</a>	<a href="http://www.whatsyourchase.com">www.whatsyourchase.com</a>	
12	Aayur Kaul	Computers 2014	Chase	Co Founder	<a href="mailto:ayur.kaul@gmail.com">ayur.kaul@gmail.com</a>	( <a href="http://www.whatsyourchase.com">www.whatsyourchase.com</a> )	

  
 Principal  
 Bharatiya Vidya Bhawan's  
 Sardar Patel Institute of Technology  
 Munshi Nagar, Andheri (W)  
 Mumbai-400 058.



13	Yash Dahlenkar	2017 EXTC	Bitgenie Technologies PVT LTD	Software Solutions	<a href="mailto:Yash_dhane@spit.ac.in">Yash_dhane@spit.ac.in</a>	<a href="http://bitgenie.io/">http://bitgenie.io/</a>	
14	Ketan Vilas Hande	2012 MCA	Tekwing PVT LTD	Kissan Buddy (Electronics)	<a href="mailto:Ketan.hande@gmail.com">Ketan.hande@gmail.com</a>	<a href="http://www.tekwings.com">www.tekwings.com</a>	
15	Prutha Atre	2017 ETRX	VPS Techub PVT LTD	Health Tech	<a href="https://www.iavc.in/">https://www.iavc.in/</a>	<a href="https://www.vpstechub.com/">https://www.vpstechub.com/</a>	
16	Rohan Daftary	2013 ETRX	Adapt Fintech	Finance	<a href="mailto:drohan91@gmail.com">drohan91@gmail.com</a>	<a href="https://www.linkedin.com/company/adapt-fintech/">https://www.linkedin.com/company/adapt-fintech/</a>	



*Principal*  
*Bharatiya Vidyabhavan's*  
*Sardar Patel Institute of Techn*  
*Munshi Nagar, Andheri (E)*  
*Mumbai-400 058*





**Sardar Patel Institute of Technology**  
Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India

Sr. No	Academic Year	No of Patents Published
1	July 2013 to June 2014	02
2	July 2014 to June 2015	02
3	July 2015 to June 2016	03
4	July 2016 to June 2017	07
5	July 2017 to June 2018	01
6	July 2018 to June 2019	05
7	July 2019 to June 2020	08
	<b>TOTAL</b>	29

Academic Year : July 2013 to June 2014      Total No of Patents Published : 02

[1] Patent Title : **SUSTAINABLE PICOHYDRO POWER GENERATION SYSTEM**

Inventor : Sanjay Trymbak Gandhe, K.T.Talele

Application No. 2140/MUM/2013

Date of filing of Application : 24/06/2013

Publication Date : 12/07/2013

[2] Patent Title : **PORTABLE, VEHICLE INDEPENDENT AND INTEGRATED DRIVER ALERT, SECURITY, GPS NAVIGATION & ENTERTAINMENT SYSTEM**

Inventor : Aditya Anand Naravane, Anasree Chatterjee, K.T.Talele, Ruchir Kanakia, Shivani Prashant Nadkarni

Application No. 1824/MUM/2012

Date of filing of Application : 25/06/2012

Publication Date : 27/12/2013



**Bharatiya Vidya Bhawan's**  
**Sardar Patel Institute of Technology**  
**Munshi Nagar, Andheri (W),**  
**Mumbai-400 058.**

Academic Year : July 2014 to June 2015 Total No of Patents Published : 02

[1] Patent Name : SYSTEM FOR PROVIDING INSTANT ASSISTANCE DURING URGENT SITUATIONS

Inventor : Ghurye Ankita, Kamat Jagruti, Gharpure Prachi, K.T.Talele, Ramaswamy Aparna  
Application No. 1404/MUM/2013

Date of filing of Application : 15/04/2013

Publication Date : 17/04/2015

---

[2] Patent Title : BIOMETRIC PATTERN RECOGNITION SYSTEM

Inventor : Kanchar Akshay, Panchal Dhruv, Saxena Richa, K.T.Talele  
Application No. 1406/MUM/2013

Date of filing of Application : 15/04/2013

Publication Date : 17/04/2015

Academic Year : July 2015 to June 2016 Total No of Patents Published : 03

[1] Patent Title : DETECTION OF BLOOD ALCOHOL LEVEL BY BREATH ANALYSIS USING SEMICONDUCTOR

Inventor : Mane Dhanashree, Shaikh Banafsha Nikhat, Avanish Balaji, K.T.Talele  
Application No. 1405/MUM/2013

Date of filing of Application : 15/04/2013

Publication Date : 10/07/2015

[2] Patent Title : A SYSTEM AND METHOD FOR HUMAN FACE IDENTIFICATION

Inventor : Bairathi Neha, K.T.Talele, Daga Rahul, Darji Jignesh, Panda Rekha  
Application No. 1408/MUM/2013

Date of filing of Application : 15/04/2013

Publication Date : 10/07/2015

*Bairathi*



**[3] Patent Title : SYSTEM AND METHODS FOR GSM BASED SOIL MONITORING**

Inventor : Patil Tushar, Gedam Mrunal, Gharat Adwan, K.T.Talele

Application No. 1409/MUM/2013

Date of filing of Application : 15/04/2013

Publication Date : 10/07/2015

Academic Year : July 2016 to June 2017 Total No of Patents Published : 07

**[1] Patent Title : COMBINATION OF CELLULAR PHONE HAVING ELECTRO SHOCKING DEVICE AND REMOTE ALERT SYSTEM**

Inventor : Jadhav Ninad, Jain Manish, Ostwal Prajakta, K.T.Talele

Application No. 817/MUM/2015

Date of filing of Application : 13/03/2015

Publication Date : 16/09/2016

**[2] Patent Name : ULTRASONIC BROADBAND GENERATOR**

Inventor : Vakadkar Amogh A, Rege Kunal S, Thakur Rohan S, Rathod Surendra S, Bhataria Manoj

Application No. 1401/MUM/2013

Date of filing of Application : 13/03/2015

Publication Date : 28/04/2017

**[3] Patent Name : SYSTEM AND METHOD FOR DETECTION AND DETERRENCE OF INTRUSION**

Inventor : Trivedi Jay, Vartak Mugdha, Tripathi Aditi, Karia Deepak

Application No. 4487/MUM/2015

Date of filing of Application : 30/11/2015

Publication Date : 02/06/2017



**[4] Patent Name ::SYSTEMS AND METHODS FOR CONTINUOUSLY MONITORING THE GAS USAGE OR LEAKAGE IN A CONTAINER.**

Inventor : Dhanwade Pooja, Ga Jakosh Sneha, Domdiya Falguni, Haldankar Govind

Application No. 4486/MUM/2015

Date of filing of Application : 30/11/2015

Publication Date : 02/06/2017

**[5] Patent Name : A SYSTEM FOR RECORDING AND DISPLAYING.**

Inventor : Malia Vira J, Gala Jugal, Gupta Samiksha, Rathod Surendra

Application No. 4485/MUM/2015

Date of filing of Application : 30/11/2015

Publication Date : 02/06/2017

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**[6] Patent Title : A METHOD FOR COUNTING PEOPLE IN REAL-TIME PASSING THROUGH AN AREA**

Inventor : K.T.Talele, Patil Sandesh

Application No. 4730/MUM/2015

Date of filing of Application : 17/12/2015

Publication Date : 23/06/2017

**[7] Patent Title : SYSTEM AND METHOD TO ENABLE VISUALLY CHALLENGED TO DIRECT SIGNALS.**

Inventor : A Jgaonkar Aarohi, Vishwasrao Priyanka, Jaiswal Supriya, Chakole Kartik, Kabdule Sahil, Tulsiram Anurag, Gandhi Harshit, Mangaonkar Nikhita, K.T.Talele

Application No. 4482/MUM/2015

Date of filing of Application : 30/11/2015

Publication Date : 02/06/2017

Academic Year :July 2017 to June 2018 Total No of Patents Published : 01

**[1] Patent Title : VEHICLE EVENT RECORDER AND CRASH RECOVERY SYSTEM**

Inventor : Kankonkar Prateek, Ghadi Amiya, Patil Path, Rathod Surendra

Application No. 816/MUM/2015

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Munshi Nagar, Andheri (W).  
Mumbai-400 058.



Date of filing of Application : 13/03/2015

Publication Date : 17/11/2017

Academic Year : July 2018 to June 2019 Total No of Patents Published : 05

**[1] Patent Title : AUTOMATED SYSTEM WITH MULTIPLE FEATURES WHICH PROVIDES CLEAN WATER WITH NEW MAINTENANCE TECHNIQUE**

Inventor : Thakur Saurabh, Dhebe Tejas, Valvi Vipin ,Shinde Prathmesh, Kasambe Prashant  
Application No. 201821033536

Date of filing of Application : 06/09/2018

Publication Date : 14/09/2018

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**[2] Patent Title : SYSTEMS AND METHODS FOR DECOMPOSITION OF BIOMASS**

Inventor : Sutar Rajendra ,Modi Arpan ,Gahdi Apurv ,Ghosh Arijit ,Talele Kiran  
Application No. 201921015246

Date of filing of Application : 10/05/2019

Publication Date : 10/05/2019

**[3] Patent Title : SYSTEMS AND METHODS FOR RECOMMENDING THE MOST SUITABLE CROP FOR FARMING AND RESOLVING FARMING RELATED QUERIES**

Inventor : Shah Payal , Sawant Divya , Jaiswal Anchal , Singh Jyoti  
Application No. 201921015285

Date of filing of Application : 17/05/2019

Publication Date : 17/05/2019

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**[4] Patent Title : VIRTUAL FITNESS SYSTEM**

Inventor : Dichwalkar Vaibhavi, Patil Pranali ,Santosh Saniya,Talele Kiran ,Shah Payal  
Application No. 201921023082

Date of filing of Application : 11/06/2019

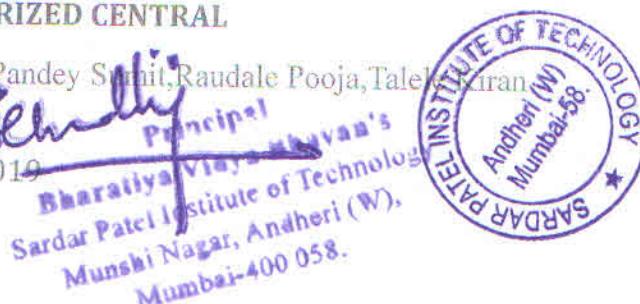
Publication Date : 21/06/2019

**[5] Patent Title : SYSTEMS AND METHODS TO FASCLITATE COLLECTION & FORWARDING DONATED COMMODITY TO AUTHORIZED CENTRAL**

Inventor : Rajput Ravi, Rajput Anshul, Pandey Sunit,Raudale Pooja,Talele Kiran  
Application No. 201921023085

Date of filing of Application : 11/06/2019

Publication Date : 21/06/2019



Academic Year : July 2019 to June 2020 Total No of Patents Published : 08

[1] Patent Title: SYSTEMS AND METHODS TO TRAIN AND TEST USING AUGMENTED REALITY

Inventor: Babu Alwin Eldhose, Gaikwad Abhishek, Desai Saish, Shah Payal, Talele Kiran  
Application No. 201921023090

Date of filing of Application : 11/06/2019

Publication Date : 19/07/2019

[2] Patent Title : SYSTEMS AND METHODS FOR TRANSMITTING AND RECEIVING AUDIO DATA USING LIGHT

Inventor: More Devashish, Khandkar Divya, Kumar Tushar, Bansode Manisha, Karia Deepak  
Application No. 201921023087

Date of filing of Application : 11/06/2019

Publication Date : 19/07/2019

[3] Patent Title : SYSTEM AND METHODS FOR INFORMATION DISPLAY,EVALUATION OF EVENTS AND PERFORMING ACTIONS RELATED TO EVENTS

Inventor: Sonawane Amit, Shastri Akshata, Raut Viraj, Talele Kiran  
Application No. 201821006156

Date of filing of Application : 19/02/2018

Publication Date : 23/08/2019

[4] Patent Title: A SYSTEM AND METHOD FOR ELECTRONIC SIGNATURE STAMP

**Inventor:** Kharade Sanish, Kumar Amit, Mukne Ankita, Rathod Surendra  
**Application No** 201921023402

**Date of filing of Application:** 13/06/2019.

**Publication Date :** 21/06/2019

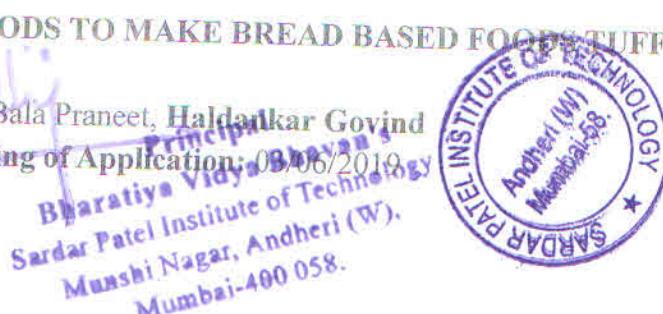
[5] Patent Title: SYSTEMS AND METHODS FOR AUTOMATIC VENDING MACHINE

**Inventor:** Bandiwadekar Varshada, Shaikh Sakina, Shinde Shroti, Shah Payal, Sutar Ranjendra  
**Application No :** 201921023086

**Date of filing of Application:** 11/06/2019.

[6] Patent Title: SYSTEMS AND METHODS TO MAKE BREAD BASED FOODS TUFFS AUTOMATICALLY

**Inventor:** Jogi Chetan, Karandikar Mohit, Bala Praneet, Haldankar Govind  
**Application No.** 201921021954 *(Signature)* **Date of filing of Application:** 03/06/2019



[7] Patent Title : SYSTEMS AND METHODS FOR UNASSISTED SEGREGATION OF PARCEL AND MAINTAINING THEIR TIME/DATE RECORDS AT POST OFFICES.

Inventor: Isha Dongare, Manasvi Govinayapalli, Shreya Gupta, Dr. S. S. Rathod

Application No. 201921022565

Date of filing of Application: 07/06/2019

Publication Date : 21/06/2019

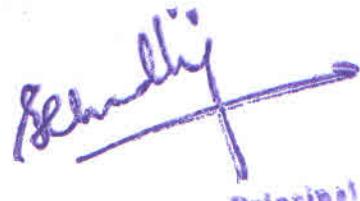
[8] Patent Title : MECHANISM FOR TRANSMITTING GRAPHICAL DATA OVER TEXT MESSAGE AND DISPLAYING IT ON RECEIVER END

Inventor: Naman Patwa, Isha Yadav, Neil Daftary, Ashish Kulkarni, Prof. P. V. Kasambe

Application No. 201821029467 Date of filing of Application: 06/08/2018

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