InformationBrochure

INNOVATION -Ifthereisa bettersolutionfindit

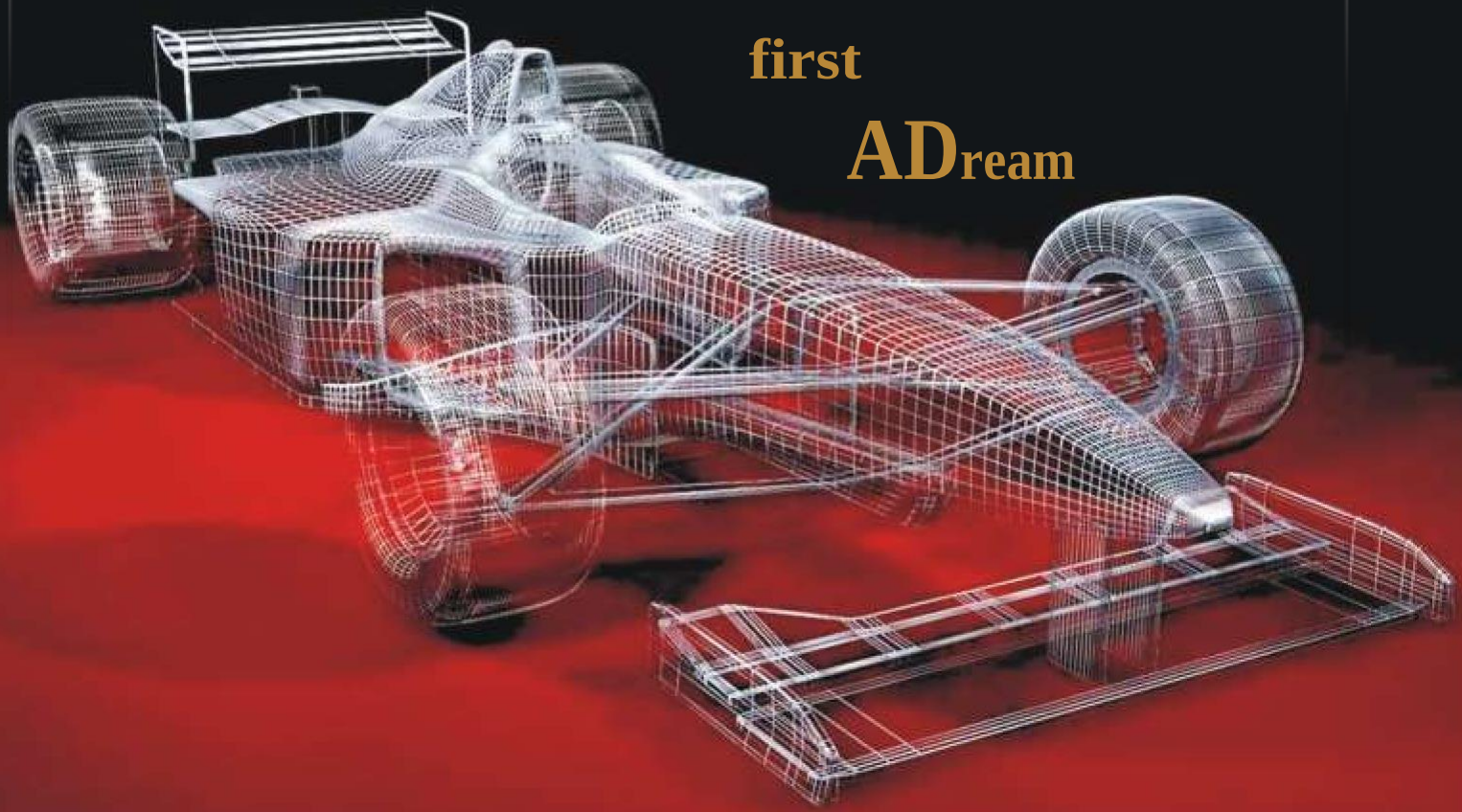
PanditDeendayalUpadhyayaInnovation&IncubationCenterGuru JambheshwarUniversityofScience&TechnologyHisar-125001(Haryana)

TechnocratsExceptionalCitiz
enExemplary
HumanbeingExtraordinaire
GoestheExtramile,always

Nothinghappens

first

ADream



Director
Prof.VishalGulati

DeputyDirector
Prof.SureshKumar

DeputyDirector
Prof.MunishGupta

DeputyDirector
Dr. Sumit Saroha

Contactus:
PanditDeendayalUpadhyayaInnovation&IncubationCenter(underRUSA2.0,MinistryofEducation,Govt.ofIndia)
GuruJambheshwarUniversityofScience&Technology,Hisar-
125001ContactNumber:+91-1662-263692
Email:directorpduiic@gmail.com,pduiic@gjust.org

Vice-Chancellor'sMessage

Message

It is a matter of great pleasure that Pt. Deendayal Upadhyaya Innovation & Incubation Centre established at Guru Jambheshwar University of Science & Technology, Hisar, Haryana in 2018 with financial support from Ministry of Human Resources & Development (MHRD), Government of India, under RUSA 2.0 is providing a platform and financial support to young innovators for their innovation.

At same time it has state of the art building, co-working space, very good prototyping laboratory and workshop. It provides our budding engineers, students and young innovators to incubate novel ideas and develop them into useful products for the benefit of the society.

I encourage students to submit innovative project ideas and start-ups with Industry tie-ups. It will not only give a good training and employment opportunities for the University students but at the same time will also help to create entrepreneurs.

I also encourage all the Faculty members of the University for mentoring the dedicated and motivated students in consultation with professional/industry experts for developing Innovative ideas/products at Pt. Deendayal Upadhyaya Innovation and Incubation Centre, GJUS&T, Hisar.

I appreciate the entire PDUIIC team for their dedicated efforts towards innovation and product development.

Prof. Narsi Ram Bishnoi

Director'sMessage

Message

PanditDeendayalUpadhyayaInnovation&IncubationCentrewasestablishedinGur uJambheshwar University of Science & Technology, Hisar, Haryana in 2018 which serves as aplatform for students, engineers, young innovators, entrepreneurs and faculty members forincubating novel ideas and helps them in producing novel products through expert guidanceof mentors as well as linkage and tie-ups with Industry experts. Innovative ideas throughprojectsareinvitedfordevelopingPrototypes/Startups/NovelHand-heldDevices/Point-of-CareDevices/Entrepreneurshipsfrom individualor groupsofNational &International reputein thematic areas of Agricultural Sciences, Business Management, Engineering, AI, IOT &Robotics,LifeSciences,PharmaceuticalSciences,PhysicalSciences,MedicalSciences&Yoga Sciences for the benefit of the Society. MOUs have also been signed with IndustryExperts for developing AI & IOT based novel products and for undertaking real time andvirtual training program in Robotics. PDUIIC offers tremendous opportunities by providinginfrastructure /ICT facilities, consumables, working space of laboratories and workshopfacilities to Young Innovators and engineers for conceiving novel ideas and converting theminto innovative products useful for the society. PDUIIC is in the process to establish labs inthedomainofAI/ML,IOT,AdditiveManufacturing,DataAnalytics,Robotics,Prototypingetc.inthefield ofengineering,scienceandmanagement.

A course ofSkill and innovation labis started in each UG/PG program to sensitize thestudents towards skill and Innovation. Students will be able to understand and identifyresearch areas in their field, work as a team towards creative thinking, learning by doing itselfandproposeanovelidea/modifiedtechnique/newinterpretation.

I anticipate from all Faculty members of GJUS&T, Hisar to motivate young students of theUniversity for participating and incubating novel ideas through projects. Outcome of project isexpectedtowardsconcepttestingofInnovativeIdeaswhichleadstoproductdevelopment/software/application having some sort of societal relevance. Level of Innovationshouldbefocusedtowardscommercialization/start-up/entrepreneurship.

Prof. Vishal Gulati

AbouttheUniversity

Guru Jambheshwar University of Science and Technology, Hisar started itsjourney on October 20, 1995 under Haryana State Legislative Act No. 17 of1995 at Hisar, Haryana State of India to impart education on the frontiers ofTechnology,Pharmacy,EnvironmentalStudies,Non-conventionalEnergySources,MassMediaandManagementStudies.

Todaytheuniversityisrockstandingonthreehundredseventytwoacresoflushgreen land with 18 Teaching Departments classified in 10 Faculties forcoordinated teaching in particular and effective governance in general. TheUniversityat present offers58 Regular Programmes onCampus includingB.Tech,M.Tech,B.Pharma,M.Pharma,B.Physiotherapy,M.Physiothera py,M.Sc, M.B.A, M.Com and M.C.A. etc. with Ph.D. degree programme in all theDepartments.TheUniversityalsooffer17ProgrammesthroughDistanceMode. These Distance Education Programmes stand approved by the joint committeeof UGC, AICTE and DEC. Further, affiliated college of Hisar district from thisUniversity offers bachelor and Master degrees in Engineering, Management,Architecture,Physithreapy,Pharmacy,Law,Arts,Commerce,Scien ceandSportsetc.

TheUniversityisrecognizedbytheUniversityGrantsCommission(UGC)underSecti on 2(f) for recognition of degrees on 11.1.1996 and under section 12(B) ofthe UGC Act to be eligible for central assistance on 7.2.1997. The Universityhas been accredited „A" Grade by NAAC, in 2002 and re-accredited as grade `A"with CGPA 3.26, in 2009. Thereafter, it has been also accredited with CGPA3.28from10.12.2014to09.12.2019andfurtherextendedupto09.12.2021.

Aboutthe Center

Pandit Deendayal Upadhyaya Innovation & Incubation Centre (PDUIIC) wasestablished in Guru Jambheshwar University of Science & Technology, Hisar,Haryana in 2018 and was formally Digitally Launched by the Hon'ble PrimeMinisterSh.NarenderModion3rdFebruary,2019fromSher-e-KashmirInternational Convention Centre, Srinagar under the scheme of RUSA 2.0,MHRD, Government of India, New Delhi simultaneously in Twenty six States,one Union Territory and Fifty one aspirational districts of the entire nation withbudgetoutlayofFifteenCrores.

PDUIICaimstobecomeahubofInnovativeandStartupactivitiesinthestateofHaryana and will put sincere efforts in realizing the slogan of "Make in India" ofCentral Government. It facilitates the dream of prospective Young Innovatorsfrom conceiving the idea to technological development/inventions. It serves tocoordinate and promote Incubation and Innovation driven activities for buddingentrepreneurs.ItprovidesaplatformtotheYoungInnovatorsforachievingtheirgoal towards self-realization by strengthening Startups in thematic areas ofNational concern. It shares its resources including space and infrastructure,access to business support services, mentoring, training programs to enhancethe skills of entrepreneurs and seed funds. The scope of support is broad-based, and covers technologies developed wholly at the Institute or partlythroughcollaborationselsewhere,aswellasexternalstartupswithwhichmembersareassociatedasconsultantsormentors.

Preamble

Vision

To be a leading Centre of Innovation and Incubation, where young minds haveaccesstotechnologicalassistancewithmultidisciplinaryapproachfortransforminginnovativeideasintoviablebusinesspropositions.

Mission

- Tomotivate,buildandpromotecreativethinkingforgeneratingInnovativeideas.
- To facilitate for transforming Innovative ideas into entrepreneurships byprovidingtechnical,financialandinfrastructuralfacilities.
- To create an environment thatfacilitatesand empowers Young Innovatorsto apply their entrepreneurship skills to develop solutions with highersocialimpactthroughacademia.

Objectives

- To develop a critical mass of motivated students & faculties withentrepreneurialorientation&skills.
- To build infrastructure support for Innovation and early stage Enterprisedevelopment and enabling access to Resources and Facilities at theuniversity.
- To enhance In-House competency development to serve potential andearlystageEntrepreneursandStudentInnovatorsattheuniversity.
- To strengthen the Inter-Departmental, Inter-Institutional and Industriallinkage, Incubators and other Ecosystems at different levels to improveemployability.
- To develop overseas collaborations with Top ranked institutions of theworld to provide global exposure and mentoring by International facultyandinnovatorsforimprovingemployability.

Supports

- **DevelopingInnovationandEntrepreneurialmindset**
  PDUIICfacilitatesthedreamofprospectiveYoungInnovatorsfromconceiving the idea to technological development by coordinating andpromoting Incubation and Innovation driven activities for achieving theirgoaltowardsstart-upsintheareasofNationalconcern.
- **Infrastructure/LabSupport**
  PDUIICprovidesitsresourcesincludingspaceandinfrastructure/Labs/ICTsupporttoYoungInnovators/Professionalsduring

theirprojectwork.ItprovidesmentorsfromIndustry,Universityaswellassuccessfullocalentrepreneurs,technical,managementandlegalsupporttotheyoungentrepreneurswhohavejustbeguntotake-off.

FinancialAssistance

- Forconvertingtheirinnovativeideasintoproductdevelopment.
- Intermsofstipendfortheselectedinnovativeprojects.
- For skill development by conducting internship/Training/Workshops/Seminars/Hackathonmodulesetc.
- ForIndustrialandeducationalvisits.
- SeedfundsforestablishingStart-upCell/Companies.

InnovativeProjects

- Projects are invited in thematic areas of Agricultural Sciences, BusinessManagement,Engineering,AI,IOT&Robotics,LifeSciences,Pharmaceutical Sciences, Physical Sciences, Medical Sciences & YogaSciences.
- Projects are open to UG/PG/PhD students (both ongoing and graduated) ofGJUS&T,Hisar,facultymembersofGJUS&T,HisarandIndustryExperts/ ProfessionalsfromoutsidetheUniversityGJUS&,Hisar.
- Projectsareprovidedfundingassistanceforstipend,consumables,equipments,contingency,industrialvisitandfordevelopingprototypes/product/devices;mentoringsupport;accesstoGJUS&Tinfrastructureandlabs;allocationof office/residentialspace;IPManagement,legalandaccountingassistance;seed fundingforstartups.

Steering Committee

- Hon'ble, Vice-Chancellor (In Chair)
- Registrar
- Director, PDUIIC
- RUSA 2.0 Coordinator
- Dean, FET
- Director, HSB
- Chairperson, CSE
- Chairperson, Data Science
- Chairperson, Food Tech
- Director, CIL
- Coordinator, Patent Cell
- Prof. H. C. Garg

- Prof. Anjan Baral
- Prof. Munish Gupta

InnovationEcosystem

PDUIIChassetupaconduciveecosystemforthestartupculturetoflourishwiththebestinfrastructure,innovativeprojects,training/internshipprograms,entrepreneur/startupeventsandmentorship.
Grantshavebeenutilizedforconstructionofbuilding,forfundingofinnovativeprojects,forconductingInternship/training,forIndustrialvisits,fororganizingdifferenteventslikeHackathon, workshops, seminars, for distributing stipend to young innovatorsandforestablishmentoflabsetc.

PDUIIC, indeed takes pride in the shaping of young Innovators through theparadigm shift towards Innovation and skill development. A course „Skill andinnovation lab" is a part of curriculum in Engineering UG/PG program tosensitize the students towards skill and Innovation. Innovative projects issuedunder PDUIIC are focused on multi-disciplinary idea formation and have anoutcome in the form of product development/Patent/Startups. An IIC has alsobeen constituted under Ministry of Education"s Innovation cell, which iscommitted to organize events /activities as per guidelines of MoE"s Innovationcell.

KeyParameterIndicatorsforInnovativeEcosystem

- **DevelopinganInnovativeandEntrepreneurialMind-set**
  - ✓ ConductedeventsrelatedtoInnovativeandEntrepreneurial
  - ✓ Participation/Representationineventsorganizedbyexternalinstitutions

- **TeachingandLearningrelatedto(I&E)&IPR**
  - ✓ Offeredacademiccoursesrelatedto(I&E)&IPR
  - ✓ Conducted skill development/employment generating trainingprogrammes
  - ✓ ConductedFacultytrainingprogrammeofI&EandIPR

- **DedicatedInfrastructure&FacilitiestoPromoteI&E**
  - ✓ ExistenceofCo-workingspace/work-stationsforstudents
  - ✓ ExistenceofInnovationandIncubationCenter
  - ✓ ActiveIdeas/Innovationcentricstudentclubs
  - ✓ Existenceofdedicatedinfrastructuresandfacilities
  - ✓ ExistenceofIPRCell/PatentFacilitation
  - ✓ MentorstosupportandtoestablishI&Eco-system

- **GenerationofInnovations/ideas**
  - ✓ Innovative projects registered with Incubation center and provided withfinancialsupport
  - ✓ Number of awards won by the student and faculty innovations atState/National/InternationalLevelinI&Erelatedevents

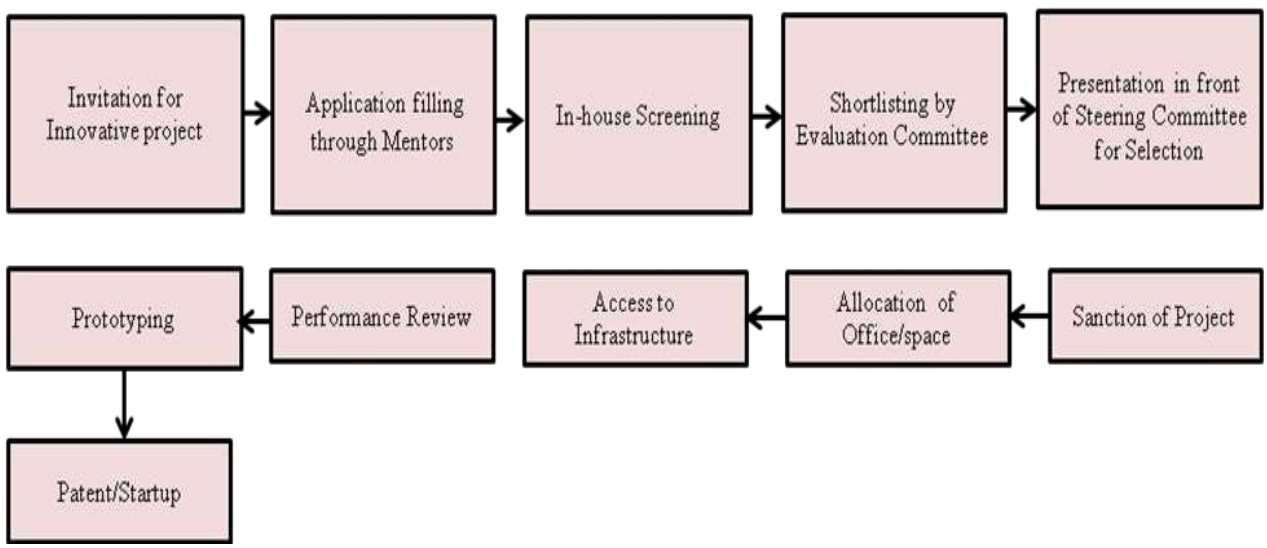
- **VenturesEstablished&RecognitionsReceived**
  - ✓ NumberofStartups/EntrepreneurialVenturesstartedbystudents/faculties/Staff/AlumniandfacilitatedunderIncubationCenter

- **IntellectualProperty(IP)andCommercialization**
  - ✓ PatentsFiled&Published
  - ✓ PatentsheldbyPre-IncubatedInnovations/IncubatedStartups

- **BudgettowardsI&EActivities**
  - ✓ AnnualbudgetonpromotingandsupportingI&Eactivities
  - ✓ Amountspentoneventsconductedandparticipationineventsconducte dbyexternalorganizations
  - ✓ Expenses incurred in the establishment, maintenance and operation ofIncubationinfrastructure,seedfund/grantdisbursedtoinnovation/entrep reneurialventures

- **ParticipationinI&EInitiativeofMOE**
  - ✓ AdoptedNationalInnovationandStart-upPolicy
  - ✓ EstablishedInstitution'sInnovationCouncil(IIC)
  - ✓ TrainedInnovationAmbassadors
  - ✓ FacilitatedregistrationofStart-ups/TechnologiesdevelopedinYUKTI

IncubationProcess



Activities

Collaboration

Name ofCollaboratedAgency	Period ofCollaboration/DateofMOU	Activitiestobecarriedoutduring CollaborationPeriod	FundsAllocated(Rs.)
M/s PreltexSolutionsPrivateLimited	02years 03Feb.2020	InnovationConsultancy Services and Skilldevelopmentservices	5,40,000/-+ freetraining
M/sDeepleedsInnovationPrivateLimited,Mumbai	02years 03Feb.2020	IOT based productdevelopmentandSkillDevelopmentServices	21,20,000+ Travel
M/sBug2Debug	02years 03Feb.2020	Sanjeevni platform toconnecthospitalsandthepatientstogether	6,50,000
M/sMTAB TechnologyCenter,Chennai	02years 03Feb.2020	TrainingonRobotics	5,60,500including18%GST
M/sActfuse Noida	02years 03Feb.2020	IOTBasedpatienttrackingandMonitoringSystem	23,40,000+ taxes

Workshop/Seminars

Topic	Date
Workshopon“EntrepreneurshipandInnovationasCareerOpportunity”	14.01.2022
Webinaron"MyStory-MotivationalSessionbySuccessfulEntrepreneur/StartupFounder"	14.12.2021
Webinaron“StartupEcosystem&BusinessIncubators”	22.11.2021
Webinaron“Innovation,IncubationandStartup:ARoadmap”	18.11.2021
Workshopon“EntrepreneurshipandInnovationasCareerOpportunity”	27.10.2021
OnedayworkshopcumexhibitiononAatmNirbharHaryana	06.09.2021
FourweeksTrainingcumInternshipbyEngineeringStaffCollegeof India(ESCI),Hyderabad	21.06.2021-17.07.2021

Topic	Date
IoTWebinarsandPythonTrainingbyM/sPreltexSolutionsPvt.Ltd.	01.06.2020-30.06.2020
SmartIndiaHackathon	28.06.2020
PersonalityDevelopmentandSelf-ManagementProgram	11.06.2020-13.06.2020
MachineLearningusingPythonLanguage,AutomationandRobotics byEngineeringStaffCollegeofIndia(ESCI),Hyderabad	01.07.2019-09.08.2019
Hands-onWorkshopcumCompetitionon"LineFollowerRobot"	05.04.2019-08.04.2019
Workshopon“InnovativeIdeas”	17.12.2018
Hands-onWorkshopon"FamiliarizationwithElectronicComponents&DesignofPower Circuit"	31.10.2018
Hands-onWorkshopon“SensorInterfacingwithArduino”	20.04.2018-21.04.2018
Hands-onWorkshopon“ElectronicCircuitsDesignonPCB”	19.04.2018-20.04.2018
Workshopon“ArduinoBoardandApplications”	20.03.2018
Workshopon“ComputerHardware”	15.02.2018
EntrepreneurshipClubpresentSAMVAD:EntrepreneurSuccessStory	07.05.2022
EntrepreneurshipClubpresentsTALASH:IdeaPitchingCompetitionFromIdeaToRealityThink.Create.Scale	22.04.2022
EntrepreneurshipClubpresentTALASH:IdeaPitchingCompetitionFromIdea ToReality	21.01.2022
EntrepreneurshipClubpresentSAMVAD:SuccessStoryofanEntrepreneur	22.12.2021
EntrepreneurshipClubpresentsTALASH:IdeaPitchingCompetitionFromIdeaToRealityThink.Create.Scale.	08.12.2021
EntrepreneurshipClubpresentSAMVAD:EntrepreneurSuccessStory	16.11.2021
SSBCLUB(InteractionwithgroupcaptionRajeshSharmaaboutSSB)	06.11.2021
EntrepreneurshipClubpresentsTALASH:IdeaPitchingCompetitionFromIdeaToRealityThink.Create.Scale	25.10.2021
EntrepreneurshipClubpresentSAMVAD:EntrepreneurSuccessStory	12.10.2021
Webinaron"EffectiveResumeBuilding"byMr.RichikSinhaRayunderUDBHAVANATalkShow	23.09.2021

SanctionedInnovativeProjects

SanctionedInnovativeProjects

2019-2020

1. Cost-effectiveMultifunctionalProsthesisfordisabledpersons.
2. CrimeInvestigationManagementTool
3. HybridElectricalBicycle
4. VisualizationofBlindPersonandClassificationof HumanPhysiology
5. Fabrication of nano composites coatings for applications in orthopedicimplants.
6. Voice controlledHomeAutomationSystem.
7. Pet BottleBricks
8. AI, IOT basedProductDevelopment
9. IOTbasedPatient trackingandMonitoringSystem
10. Analogand BasicCircuitDesign .....Pythonetc.
11. InnovativeproposalforTrainingProgram entitled “RoboticsTraining”
12. InnovativeproposalforStartupentitled“Sanjeevni”
13. ChatBot foraGrocerystoreandstock analyzer

2020-2021

14 IndigenousDevelopmentofBridgmansetupforSynthesisofLaserCrystals
15 AatmNirbharTeachingPlatform
16 MultifunctionalProsthesisWheelChairfordisabledpersons

2021-2022

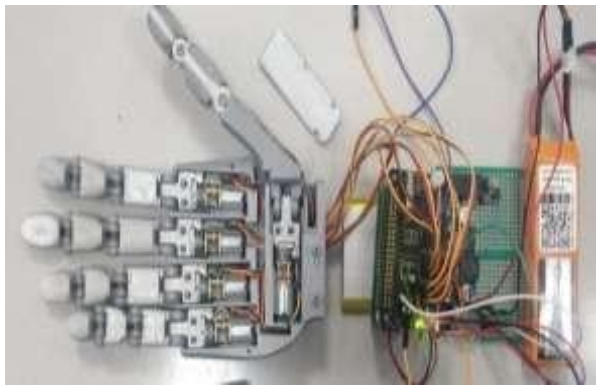
17 Developmentoflowcost,self-healingantimicrobialnanogelbasedpatch/bandages forwoundhealing.
18 DevelopmentofNovel,lowcostantimicrobialNanomaterialforApplication in Hospital clothing/ Medical textiles viz. Mask, PPE material,Bed sheets, Pillow covers, Blankets, cloth privacy curtains etc. to preventHospitalacquiredinfection(HAI)/Nosocomial Infection.

2022-2023

19 SWAN-System for water analyzing & Nurturing.

ProjectsPosters

Cost-effectiveMultifunctionalProsthesisforDisabledPersons



ProstheticHandwithCircuitry

Custom(UserSpecific)

CrimeInvestigationmanagementTool

ElectricalHybridBicycle

IOTBasedIntelligentHomeAutomation,MovementSensor System

Home Automation Module

Movement Sensor Module

Rolling Shutter Module

Multi-Language Agriculture Automation

IOTbasedvendingMachine and3Dprinter

IOT Based 3-D Printer

IOT Based Vending Machine