Ministry of Education
Government of India

MoE's INNOVATION CELL
(GOVERNMENT OF INDIA)

INSTITUTION'S INNOVATION COUNCIL
(Ministry of Education Initiative)

AICTE

CERTIFICATE OF ESTABLISHMENT

This is to certify that

Hirasugar Institute of Technology,, Belagavi

has established an Institution's Innovation Council (IC202219659) in the campus as per
the norms of Innovation Cell, Ministry of Education, Govt. of India during
the academic calendar year 2022-23

Prof. Anil D. Sahasrabudhe
Chairman
AICTE

Dr. Abhay Jere
Chief Innovation Officer
Ministry of Education's Innovation Cell

Certificate No: 9210   **Aishe Code:** C-1409   **Date:** 16-09-2022

Letter of Appreciation

Dear Sir/Madam,

Please accept our sincere gratitude to all the chief functionaries and every members of the IIC Institution's Innovation Council (IIC) of Hirasugar Institute of Technology, for the continuous support and contribution towards building the innovation and entrepreneurship culture development in your campus and also extending support to help other IIC institutions towards growth of the IIC network during the academic year 2022-23.

Chief Functionaries of the IIC at Hirasugar Institute of Technology,, Belagavi

Name	Position
Dr. S. C. Kamate	President
Dr. Manjunath S. Hanagadakar	NISP Co-ordinator
Dr. S. N. Topannavar	Vice President
Prof. M. A. Hipparagi	Social Media
Dr. M. S. Hanagadakar	Convener
Prof. N. M. Patel	Internship Activity Coordinator
Dr. K. B. Manwade	Start up Activity Coordinator
Dr. R. R. Maggavi	IPR Activity Coordinator
Prof. D. N. Inamdar	NIRF Coordinator,ARIIA Coordinator
Dr. M. M. Shivashimpi	Innovation Activity

As we are progressing towards a 'quality' driven I&E ecosystem development, we strongly believe that the IIC model and its unique structure is definitely putting your HEI's thoughts, actions and aspirations in a systematic way to achieve inclusive and holistic development of the ecosystem.

Thanks & regards.

Yours Sincerely,

Dipan Kumar Sahu

Assistant Innovation Director

Ministry of Education
Government of India

MoE's INNOVATION CELL (GOVERNMENT OF INDIA)

INSTITUTION'S INNOVATION COUNCIL (Ministry of Education Initiative)

AICTE

CERTIFICATE

Institution's Innovation Council (IIC) established at

Hirasugar Institute of Technology,, Belagavi

had undertaken various activities prescribed by Innovation Cell, Ministry of Education, Govt. of India to promote Innovation and Start-up in campus during the IIC calendar year 2022-23.

Prof. TG Sitharam
Chairman
Aicte

Dr. Abhay Jere
Chief Innovation Officer
MOE, Innovation Cell

Mr. Dipan Sahu
Assistant Innovation Director
MOE, Innovation Cell

Certificate No : 9210

Issued On : 2023-11-16

S. J. P. N. Trust's
Hirasugar Institute of Technology
Nidasoshi - 591 236
Dist. : Belagavi. Karnataka.

"INCULCATING VALUES, PROMOTING PROSPERITY"

(Affiliated to Visvesvaraya Technological University, Belagavi.and Approved by All India Council for Technical Education, New Delhi.)

Accredited at "A" Grade by NAAC
Programs Accredited by NBA : CSE, ECE, EEE & ME.

Ref. : HIT/NDS/EST/91/2021-22   **OFFICE ORDER**   Date : 12-05-2021

Following committee has been constituted for the Policy Implementation with support of Innovation & Startup Policy for the Institution.

Sl. No.	Name	Position
1.	Dr. S. C. Kamate Principal, HSIT Nidasoshi	President
2.	Dr. M.S. Hanagadakar Assoc. Professor, Department of Chemistry, HSIT Nidasoshi	Nominated Faculty NISP Coordinator
3.	Dr. S. N. Topannavar Professor and H.O.D Department of Mechanical Engineering, HSIT Nidasoshi	Member
4.	Dr. B. V. Madiggond Professor and H.O.D Department of Electrical & Electronics Engineering, HSIT Nidasoshi	Member
5.	Prof. S.V. Manjaragi Assistant Professor and H.O.D Department of Computer Science & Engineering , HSIT Nidasoshi	Member
6.	Prof. S.B. Akkole Assistant Professor and H.O.D Department of Electronics & Communication Engineering, HSIT Nidasoshi	Member
7.	Dr. K.M. Akkoli Assoc. Professor, Dept. of Mechanical Engineering and I-Year Coordinator, HSIT Nidasoshi	Member
8.	Prof. D.N. Inamdar Assistant Professor, Department of Mechanical Engineering, HSIT Nidasoshi	Member
9.	Prof. M. P. Yanagimath Asst. Professor, Dept. of Electrical & Electronics Engineering, HSIT Nidasoshi	Member
10.	Dr. K. B. Manwade Assoc. Professor, Dept. of Computer Science & Engineering , HSIT Nidasoshi	Member
11.	Prof. D.M. Kumbar Asst. Professor, Dept. of Electronics & Communication Engg., HSIT Nidasoshi	Member
12.	Prof. M. G. Huddar Assistant Professor, Dept. of Computer Science & Engineering, HSIT Nidasoshi	Member
13.	Mr. Sugreev Tangade, Alumni HSIT Nidasoshi, Founder and CEO,SMAT Enterprises, Hubli, Karnataka	Member
14.	Mr. Tulasidas Salunkhe, Electrocell Hi Tech. Pvt. Ltd. At/Po.: Shripewadi, Nipani, Karnataka	Member

Dr. S.C. Kamate 12/05/21
Principal

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INTRODUCTION

Shri. Duradundeshwar Siddha Saunsthan Math, Nidasoshi and Trust Shri. Duradundeshwar Siddha Saunsthan Math, Nidasoshi is a holy shrine and has a glorious history of 300 years. The religious tolerance and preachings of Mahaswamiji of the Math has attracted a large number of devotees and disciples from Karnataka, Maharashtra and Goa. The SJPN Trust was founded in 1984 by Shri. Pancham Jagadguru Nijalingeshwar Mahaswamiji, the ninth pontiff of Shri. Duradundeshwar Math, Nidasoshi. To empower rural youths through technical education. Polytechnic was started in 1983. Hirasugar Institute of Technology came into existence in 1996.

Hirasugar Institute of Technology, Nidasoshi

Hirasugar Institute of Technology is affiliated to Visvesvaraya Technological University, Belagavi, approved by AICTE, New Delhi & recognized by Government of Karnataka. The institute is spread over on a lush green campus of 48.26 acres. The campus has all the basic amenities for the overall personality development of the students with adequate infrastructure. The institute has five Under Graduate programmes namely:

1. Computer Science & Engineering
2. Electrical & Electronics Engineering

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3. Electronics & Communication Engineering

4. Mechanical Engineering.

5. Civil Engineering

Vision

"To be a preferred institution in Engineering Education by achieving excellence in teaching and research and to remain as source of pride for its commitment to holistic development of individual and society".

Mission

"To continuously strive for the overall development of students, educating them in a state-of-the-art infrastructure, by retaining the best practices, faculties and inspire them to imbibe real time problem solving skills, leadership qualities, human values and societal commitments, so that they emerge as competent professionals".

Institutional Opportunity

Potential for getting grants in aids/funds from various funding agencies. Scope for undertaking inter-disciplinary & sponsored research projects. Scope for expanding base of Alumni network for academic & placement activities. Opportunities to expand activities like entrepreneurship, incubation, R & D center.

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HSIT Innovation & Startup Policy
OFFICE ORDER

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12	Prof. M. G. Huddar Assistant Professor, Department of Computer Science & Engineering,HSIT Nidasoshi	Member
13	Mr. Sugreev Tangade, Alumni HSIT Nidasoshi, Founder and CEO,SMAT Enterprises, Hubli, Karnataka	Member
14	Mr. Tulasidas Salunkhe, Electrocell Hi Tech. Pvt. Ltd. At/Po.: Shripewadi, Nipani, Karnataka	Member

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Preamble

Technological changes through innovations and R&D are the main driving force for increased efficiency & productivity, new product/process development, economic growth, social transformation, and for reshaping and redefining almost every aspect of our lives and environment. Technological leadership is one of the major factors in achieving global leadership economically. The competitiveness of various industries is being determined by their ability to integrate new technologies into their business processes.

Short term Objectives (1 to 3 years)

1. To create awareness and motivating students to participate in innovation and entrepreneurship activities.

2. Organizing workshops related to entrepreneurship skills, startups, and innovation promotion.

3. To provide necessary training to the innovators and faculty members for writing project proposals to the various research funding agencies.

4. To establish idea lab for students and staff to convert their ideas into product.

5. To foster industrial R&D on campus, collaborate with industries for their needs of R&D and allow interested start-ups and aspiring student entrepreneurs to carry out funded R&D projects.

Long Term Objectives (5 and more than 5 Years)

1. To facilitate R & D activities by fetching funds from Govt. /Non Govt. agencies.

2. To emerge as a successful innovation and startups from the institute/ centre.

3. To establish a developed innovation /incubation center within the Institute.

4. To support students and faculty get patents this will lead to commercialization of the product.

5. Developing Key performance indicators (KPI) by organizing these events for entrepreneurship development and start -ups.

    i. Research publications in UGC Recognized journals / Scopus indexed journals.

    ii. Participating and organizing competitions in innovations /research like Hackathons, idea competitions, etc.

    iii. Receiving grants from various funding agencies.

    iv. Patent filing.

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Policy Problem or Thrust Area

Sr. No	Plan
1	Strategies & governance for promoting innovation & entrepreneurship at HSIT.
2	Creating innovation pathways and pipeline for entrepreneurs in the institute.
3	Enhancing infrastructure facilities and promoting innovation start-ups.
4	Collaboration, Co-creation, Business Relationship and knowledge Exchange.
5	Norms for Faculty & Students Driven Innovations and Start-ups.
6	Incubation support by enabling institutional infrastructure at HSIT for Innovations and Start-ups.
7	Nurturing innovations and start-ups.
8	Products Ownership Rights for Technologies Developed at HSIT.
9	Pedagogy & Learning Interventions for Supporting Innovations & Start-ups.
10	Entrepreneurial Performance/Impact Assessment.

Policy document:

1. Strategies & Governance for Promoting Innovation & Entrepreneurship at HSIT

o HSIT supports Innovation and Entrepreneurial activities by a minimum 1 % of the total annual budget.

o Supports innovation and start-up-related activities by creating separate funds under Institution Innovation Council (IIC).

o For to support technology incubation, fund generation through sponsorships and donations under Corporate Social Responsibility (CSR) section 135 of company act 2013.

o Actively engage alumni network for promoting Innovations & Entrepreneurship (I&E).

o Fetching funds by submitting proposals to Government and Non-Government firms or organizations.

o Promoting innovation and entrepreneurial activities by organizing conferences, workshops, and seminars, etc at college campus.

o Creating an environment to nurture the ideas to develop the products to meet the market requirements through start-ups.

o Converting innovations and ideas to products, publications, and patents.

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o Promoting mass production and marketing of products through start-ups.

2. **Creating Innovation Pathways and Pipeline for Entrepreneurs at the institute level.**

o Giving awareness to students and faculty about Entrepreneurship and its importance in career development / employability.

o HSIT supports students and faculties to innovate and carry out incubation activities to solve the problems of society.

o Establishing a link between incubation centres by conducting various activities concerned with innovation, start-up, and entrepreneurship development.

o Implementation of Pathway from Idea to innovation, innovation to product, and product to market.

o Students are encouraged to develop an entrepreneurial mindset by conducting competitions of idea and innovation, workshops, seminars, conferences, exhibitions, mentoring by academic and industry persons or throwing real life challenges etc.

3. **Enhancing infrastructure facilities and promoting innovation start-ups.**

o The institution's facilities like Laboratory & Computing can made available to students and faculties of all the disciplines/ branches of the institute to carryout R & D work.

o HSIT supports students and faculty to utilize the available facilities and infrastructure as required.

o The necessary guidelines and support are provided for mobilization of the fund from various research funding agencies.

4. **Collaboration, Co-creation, Business Relationship and knowledge Exchange**

o HSIT supports in collaborating with the potential partners like Research organizations, , micro, small and medium sized enterprises (MSMEs), Alumni and, Entrepreneurs for Entrepreneurship development.

o Faculty members are given an opportunity to connect with the external environment through knowledge sharing by organizing outreach programs, society connect programs etc.

o The institute provides guidelines and policies for collaboration with external stakeholders/ industry.

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5. **Norms for Faculty & Students Driven Innovations and Start-ups**

- HSIT supports norms for the coordination of Entrepreneurship, for the students and faculty.

- Institute develops policy on "Conflict of Interest" to ensure that the regular duties of the faculty / staff should do not affect their involvement in a start-up.

- Only those technologies are taken for faculty start-ups which originate from within the institute.

- Faculty must separate and distinguish ongoing research at the institute from the work conducted at the start-up/ company/Institute.

- In case selection of faculty, start-up is selected by a national level/ international level accelerator maximum leave may be permitted to the faculty (as sabbatical/ existing leave/ unpaid leave/ casual leave/ earned leave) of one semester/ year (Decision is made by the review committee of the institute).

- Faculty start-up can have with students, alumni, and other Enterprises.

- Faculty must not accept gifts from the start-up.

- Faculty must not involve research staff or other staff of institute in activities at the start-up and vice-versa.

- Human subject related research in start-up should get clearance from ethics committee of the institution.

6. **Incubation support at HSIT for Innovations and Start-ups**

- Institute supports incubation facilities available at the institute through Institution Innovation Council (IIC), Entrepreneurship Development (EDC) Cell and Research and Development(R &D) cell

- Institution incubation facilities are available 24×7 for students, staff and faculty from all the departments of the institute.

- HSIT offers mentoring and other relevant services through incubation centers in returns for fees, equity sharing, and (or) zero payment basis.

- The modality regarding Equity Sharing in Startups supported will be depending upon the nature of services offered by the units/ Institute.

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7. **Nurturing innovations and start-ups**

   o HSIT supports to establishing the process and mechanism to create and nurture start-ups by students, alumni, faculty, and potential start-up applicant from an outside institution.

   o To achieve this institute will follow

   i. By providing incubation facility & support

   ii. Will allow licensing of IPR (Intellectual Property Rights) from institute to start-up when technology is owned by the institute.

   iii. Will allow setting up of start-ups and working in part-time by students and faculty while studying and working.

   iv. Will allow students and staffs to work on their innovative projects and setting up start-ups.

   o For Students:

   i. Student inventors are allowed to opt for start-ups in place of mini/ major products, seminars, and summer training.

   ii. Students using incubation facilities for entrepreneurship are permitted to use the institute address/affiliation to register their company with prior approval from the institute.

   iii. The students involved in entrepreneurship are permitted to appear for the examination, even if their attendance is less than the minimum permissible percentage with due permission from the institute.

   iv. The students involved in entrepreneurship are permitted entrepreneurs to take a break for a semester/ year (Credit can be given to them on Review committee recommendations).

   o Faculty/ Staff involved in start-ups given off for a semester/ Year (Even more depending upon the decision of the review committee constituted by the institute) as sabbatical leave/ Earned leave/ Casual leaves for working on start-ups and come back.

   o Institute supports the start-up activities / Technology development for students/ faculty/staff to use the infrastructure and facility as per the choice of a potential entrepreneur.

   i. Short term/ 6 month/ 1 year part-time Entrepreneurship training.

   ii. Mentoring support on regular basis.

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iii. In return, institute take 2% to 9.5% equity /stake in a start-up based on support provided and use.

iv. For faculty and staff can take 20% while drawing full salary from the institution.

Institute supports: `

- o In the case of the compulsory equity model: start-ups can use incubation facility on a rental basis for three months.

- o Institute extends incubation facilities to alumni of the institute as well as outsiders.

- o Start-up-related activities are considered as a legitimate activity of faculty in addition to teaching, Research publications, R&D projects, industrial consultancy etc. and must be considered while evaluating the annual performance of the faculty.

- o Institute may update/ change/ revise performance evaluation policies for faculty and staff as mentioned above.

8. **Products Ownership Rights for Technologies Developed at HSIT**
   - o If the product formed by the inventors with the support of institute contribution in terms (facility/support/ fund/ IPR is developed as part of curriculum / academic activity)-IPR is shared by inventors and institute.

   - o If the product is formed by inventors not using any support, outside office hours (For staff/ faculty) or not as a part of the curriculum by the student, then product/IPR will be entirely owned by inventors. The inventor can decide to license the technology to a third party or use the technology the way deem fit.

   - o If any dispute arises, a five members committee (2 faculties of the institute with IPR/ 2Alumni and industry (Experience in Technology commercialisation) and 1 legal advisor) will settle the issue.

9. **Pedagogy & Learning Interventions for Supporting Innovations & Start-ups**
   - o A diversified approach should be adopted to produce desired learning outcomes.

     i. Student clubs/ bodies/departments must be created to organize competitions/ boot camps, workshops, awards etc.

     ii. Institute start annual "INNOVATION & ENTREPRENEURSHIP AWARD" to recognize outstanding ideas, successful enterprises and contributors for promoting innovation and enterprise ecosystem within the institute.

     iii. The teaching methods should include case studies on business failure and real-life experience reports by start-ups.

     iv. Failures need to be elaborately discussed and debated, encouraging to the failure take in that "Failure is part of life".

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v.   "Innovation Champions" nominated from the students/ faculty /staff for each department / Stream study.

vi. Entrepreneurship Education is imparted to students at curricular/ co-curricular / extracurricular on innovation, entrepreneurship, and venture development.

vii. Customized teaching and training materials are developed for start-ups.

viii. Sensitization of students should be done for their understanding of expected learning outcomes.

ix. Pedagogical changes need to be done to ensure that a maximum number of student projects and innovations are based on real-life challenges.

x.   Student innovators, start-ups, experts are engaged in the dialogue/debate process while developing the strategy so that it becomes need-based.

10. Entrepreneurial Performance Impact Assessment

o   Impact assessments of institute's entrepreneurial initiatives like incubation, entrepreneurship education are performed regularly using well defined evaluation parameters.

i.   Monitoring and evaluation of knowledge exchange initiatives, engagement of all departments and faculty in the entrepreneurial teaching and learning will be assessed.

ii. Impact should also be measured for the support system provided by the institute to the student entrepreneurs, faculty and staff for incubation, IPR protection, Industry linkages, exposure to entrepreneurial ecosystem etc.

iii. The information on impact of the activities should be actively used while developing and reviewing the entrepreneurial strategy. Impact assessment for measuring the success in terms of sustainable social, financial and technological impact in the market.

PRINCIPAL
Hirasugar Institute of Technology
NIDASOSHI - 591 236.

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KPIs – Innovation & Start-up Ecosystem Development at Institution Level

Hierarchy of Objectives	Key Performance Indicators (KPIs)	Means and Verification
Vision	• 2-3 % Increase in Self-Employment Rate • 2-3 No. of Established Start-ups	• National Institutional Ranking Frame-work (NIRF) Rankings.
Goal/Impact	• Enabling Environment Established with multiple level of support for innovation & Entrepreneurship in HSIT. • 2-3 % of Graduate students choose Entrepreneurship as career. • 2-3 No. of Student and Graduates Practicing Entrepreneurship.	• Biannual Survey • NIRF Rankings
Outcomes	• 20-30 % of student & faculty mass with entrepreneurship Orientation. • 10% of Student & 50% faculty publish research papers. • Getting Grants of Rs.10-25 lakhs /year for to develop R&D activities from each department. • 2-3 No. Patents for students and 3-5 No. of Patents for staff/ faculty - IPR/Innovations developed for commercialization. • Organizing 2 events / semester or 5 events / year in innovations /research like Hackathons, idea competitions, etc. • 6-8. No. of Student/Early Stage Start-ups formed . • 25% of Student & faculty motivated to start any entrepreneurial activity.	• Biannual Survey • Quarterly News Letter
Outputs	• 20-30 % of Student & faculty mass	• Biannual Survey

	exposed to awareness/orientation building programs.	• Monthly/ Yearly progress report
	• 20-30 % of Students covered through entrepreneurship Education; MOOC, Class Room, Experiential learning programs etc.	
	• 60% of beneficiaries are accessing the infrastructure & facilities per day, month & Year.	
	• 6-8 No. of Entrepreneurs identified; No of awarded, /recognized.	
	• 10 No. of Student projects turn to (commercialize) Innovations.	
	• 6-8 No. of IPR based product/services generated and registration filed.	
	• 6-8 No. of Research Studies on Entrepreneurship published.	
	• 5 No. of Regional, National and International linkages established for the start-up & innovation.	
	• 5% Representatives of experts & entrepreneurial students across Dept / Disciplines.	
	• 5 No. of Beneficiaries Referred to Incubators/investors for further support through Start-up Cell.	
	• 6-8 No of Beneficiaries generated under various schemes and programs leveraged and converged at Start-up Cell.	

| **Activities** | • 5-6 No. of Education/Skill certification programs on Entrepreneurship, IIPR, Innovation etc.
 • 5-6 No. of workshops, awareness, market outreach events, orientation, advocacy meetings etc.
 • 01-02 No. of skill and competency development training programs/FDPs. organised.
 • 1-2 No. Field/Exposure Visit to Village / Society / School / Industry / Market – Identity real Life Problem.
 • 1-2 No. Mini/ Hobby project exhibition competition on Science, Environment and Engineering.
 • 1. No. Organizing "Techno-Vision", State level Project and Paper Presentation Competition for Diploma students to motivate them to pursue higher studies.
 • 01-02 No of national and regional award and campus Hackathon like events organised.
 • Incentivising Entrepreneurship and Innovation; services and facilities; Start-up Manual, policies, tool kits etc.
 1% total budget/year spends against total institution revenue for start-up. | • Biannual Survey
 • Quarterly News Letter
 • Monthly/Yearly progress report
 • Review Meetings |

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Tentative plan for the next 5 years

Sl. No.	Activity	Frequency
1.	One Day Workshop on "Entrepreneurship and Innovation as Career Opportunity".	1/Year
2.	One Day Workshop on Problem Solving/Design Thinking/Ideation Workshop/ Hackathon etc.	1/Year
3.	Short Term Training course on Innovation /Start-up & Entrepreneurship	1/Year
4.	National Science Day (Discovery of the Raman effect by Indian physicist Sir C. V. Raman on 28 February).	1/Year
5.	Innovation Day Celebrations (The National Innovation Day is celebrated commemorating the birth anniversary of former President of India, Bharat Ratna APJ Abdul Kalam on 15, October.)	1/Year
6.	Innovation and Entrepreneurship Annual Day (November – Tuesday)	1/Year
7.	Special Talk on My Story (Journey of Entrepreneurship) - Entrepreneur's Life & Crossroad – Motivational Speak - To be Share by Entrepreneurs .	1/Year
8.	HSIT Hackathon (Software/ Hardware).	1/Year
9.	Seminar on Accelerator/Incubation - Opportunity for Student Faculty - Early Stage Entrepreneurs.	1/Year
10.	Field/Exposure Visit to Village/Society /School/Industry/Market – Identity real Life Problem.	1/Year
11.	Product Development Phases - Story Telling - (Innovators in Campus)	1/Year
12.	One Day Awareness/Mentoring Session on IPR & IP Management for Innovation and Start-ups.	1/Year
13.	Mini/ Hobby project exhibition competition on Science, Environment and Engineering.	1/Year
14.	Creation Development Phases - Story Telling - (Innovators in Campus).	1/Year

15.	Internship at Innovation & Start-up Centre/Start-ups/Industry/Incubation Unit etc. during Semester Break.	1/Year
16.	Seminars/Workshop Funding Opportunities for Innovation and Entrepreneurship Development.	1/Year
17.	Short Term Training course on Innovation /Start-up & Entrepreneurship.	1/Year
18.	Organizing "Techno-Vision", State level Project and Paper Presentation Competition for Diploma students to motivate them to pursue higher studies.	1/Year
19.	Workshops/Seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices.	1/Year

08/06/21

PRINCIPAL
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