

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

Our Institute has a culture that values research, and through various R & D promotion programmes students, researchers, and faculty members are all encouraged to participate in research-related activities.

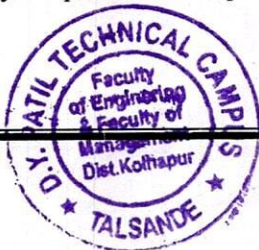
To foster the culture of innovation and to promote R & D-related initiatives, the institute established the Institution's Innovation Council. For activities linked to research and development, consulting, and product development, the institute works well with a variety of other institutes and enterprises. These partnerships occasionally provide guidance from a variety of notable academics and scientists. Students are also encouraged for industrial internship during academic vacations to enhance the practical skills.

In order to exchange their research and the assimilation of new knowledge, students and teachers from other institutes in this region attend seminars, topic gatherings, organized by the institute. By encouraging them to submit papers at least in conferences, instructors are able to inculcate a culture of journal paper writing among their students. To share R & D activities over the course of one semester, the institute publishes an annual research bulletin.

Specialized servers and workstations are purchased to meet the computational needs of research. Some laboratories are entirely dedicated to research and also contribute to consultancy and high-quality publications. Project groups of students are formed at S.Y. B. Tech. level and encouraged to have sponsored projects. Students are encouraged to attend project exhibitions, workshops, and national and international conferences. The Institute has been providing seed money to faculty members as initial support. Faculty and students are encouraged by financial support for papers publishing in peer-reviewed journals and conferences.

The Research, Incubation Centre provides a platform to the students for hands on training sessions and project work. As a result of inculcation of the research culture, students have published good number of papers on their projects. The research policy's main goal is to promote research culture and initiatives, as well as research promotion, through well-defined policies.

The role of innovation ecosystem is to promote research culture by providing sessions of expert speakers which play an important role in creating entrepreneurship skills in students. These students will contribute to the future inventor and innovator human resource pool. The innovation ecosystem benefits greatly from the support that incubators and industries give to start-up and emerging businesses. This typically consists of a physical space where innovators may meet and exchange ideas while taking advantage of a common technology infrastructure and setup. Additionally, they frequently give innovators access to a network of technical and business mentors and advisors that may help them with product development, finance, business



planning, marketing, legal advice, manufacturing, and other areas. To foster this research culture and to promote interaction with the industries Memorandum of Understanding (MOU) have been done with various industries in different sectors.

The main aim of Memorandum of Understanding (MOU) is to

- Enables interaction between academic and administrative staff for the purposes of conferences, seminars, teaching, and research
- Allows for cooperation on research initiatives, activities, and contact information
- Enables the sharing of academic information

These industries are playing a crucial role in the development of our Research, Incubation Centre and Start-Up activities by providing financial assistance for the projects, internships to the students to cope with new technologies and to relate theoretical and practical approach.



S. Deshpande
Director
D.Y. Patil Technical Campus
Faculty of Engineering & Faculty of Management
Talsande, Tal. Hatkanangate, Dist. Kolhapur

RESEARCH PROMOTION POLICY



DY PATIL
TECHNICAL CAMPUS
FACULTY *&* ENGINEERING

TALSANDE

**D.Y. Patil Technical Campus,
Talsande**

Introduction

This document provides the Research Policy of D.Y. Patil Technical Campus, Talsande, is based on the resolutions of the BOG and other statutory committee. This document contains policies and practices for supporting and improving research activities. In today's globalised world, the role of research in an academic institution is critical to its sustainability and development. It is critical to have knowledge-driven growth that is based on innovation.

The basic principle underlying research is the quest for knowledge. The quality of research work directly correlates to the quality of teaching and learning processes in the academic institution, benefiting students, society, and the country. Promoting research in a vast and diverse country such as India will assist the country in evolving as a knowledge reservoir in the international arena. However, few institutes impose mandatory research goals on individual faculty members, and the majority lack adequate systems and infrastructure to support quality research. A lack of an encouraging academic environment, ill-equipped libraries, insufficient labs and equipment, poor infrastructure, a lack of funds, a faculty shortage, and other factors all contribute to the bleak picture of research in a typical Indian academic institution. As a result, the importance of research-based teaching must be emphasized.

Considering the current academic climate, the purpose of this Research Policy document is to present a policy framework for the management, support, and development of research at the D.Y. Patil Technical Campus, as well as to provide a strategy for achieving the research goals.

The objective of the research policy is to:

1. Formulate policy and facilitate the research & consultancy work in the institution.
2. Encourage Industry Institute Linkages, Collaborative Research programs and formation of new incubation centre.
3. Monitor Research projects on periodical basis and effective utilization of grants of research projects and timely completion of these projects.
4. Encourage and promote publishing of research work in reputed, high impact factor research journal / Publications.
5. Motivate faculty for exploring new avenues for research work, consultancy and projects

Innovation Ecosystem

The institute has taken concrete steps to create a favorable environment for the development of an innovation ecosystem. Many steps have been taken by the institute to promote innovation and entrepreneurship on campus.

- Institute has established Institute Innovation Council (IIC) to create an innovation ecosystem.



- Institute has initiated many programs to enhance Innovation and Entrepreneurship activities by the students and faculty of the college.

Research & Development, Consultancy and Extension Activity

The research policy's main goal is to promote research culture and initiatives, as well as research promotion, through well-defined policies.

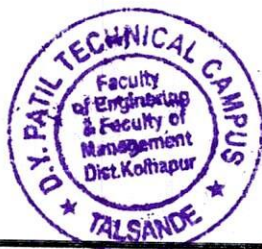
Research & Development

- Financial assistance to the students
 1. Every student who participates in national level technical events is financially supported to the tune of 50% and 100% of the registration fee and travel expenses for participation and winning the prize, respectively.
 2. Motivate students to present their project work through the Best Project Award.
- Financial assistance to the faculty members
 1. The Institute provides financial assistance for conference attendance and faculty development programmes, as well as Short Term Programs, workshops and for Membership registration.
 2. The Institute provides financial assistance to both students and faculty who wish to present their papers at conferences.
 3. The Institute has a policy regarding conference attendance within India.
 4. The Institute provides financial assistance for the organization and attendance of FDPs, STTPs, and Workshops.
 5. Financial assistance to the faculty members for purchase of Academic/research Book/(s).

Consultancy

The institute has created a technological ecosystem to promote research consulting and collaboration with other reputable institutions/industries operating under various MoUs.

- Consultancy is one of the activities that can be used to expand outreach. In this regard, the D.Y. Patil Technical Campus faculty has the ability to provide consulting services.
- It is recommended to enable consultancy, with any financial gain shared between the institution, faculty, and staff involved.
- The income generated by consulting is divided among the members of the consultancy team.



Entrepreneur

- Entrepreneurship Create an entrepreneurial ecosystem based on collaboration and innovation for the growth of industries and job opportunities in the region.
- Encourage students to engage in entrepreneurial activities that result in the founding of new businesses and employment by giving them training in the development of their entrepreneurial skills.
- Encourage and support technological innovation and research by students and faculty, which leads to solutions that address a wide range of societal needs while also creating value for new businesses.

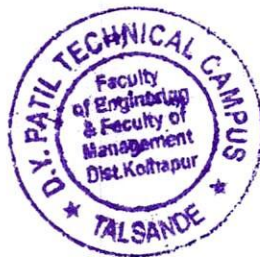
Extension Activity

Student and Society

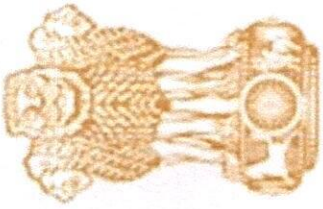
- Integrate rural engagement and service-learning into the learning experience of students so that they can understand and relate to societal needs.
- Create educational experiences in which students gain a better understanding of social issues and come up with innovative solutions to them.
- Encourage and support students in undertaking projects with distinct community engagement components that benefit the local and regional communities.

Institute and Society

- Provide services, conduct applied research, and collaborate with relevant organizations to address the needs, difficulties, and views of the region.
- Support educational institutions and students in the area by offering outreach activities and services to improve the standard of education.



Satesh W
Director
D.Y. Patil Technical Campus
Faculty of Engineering & Faculty of Management
Talsande, Tal. Hatkanangate, Dist. Kolhapur



सत्यमेव जयते

Department of Animal Husbandry,
Dairying & Fisheries



D Y PATIL
TECHNICAL CAMPUS
TALSANDE, KOLHAPUR

SMART SEMEN THAWER UNIT

(स्मार्ट वीर्य वितळण्याचे युनिट)

**DESIGN AND DEVELOPED BY D. Y. PATIL TECHNICAL CAMPUS
RESEARCH, INCUBATION AND START-UP CENTRE**

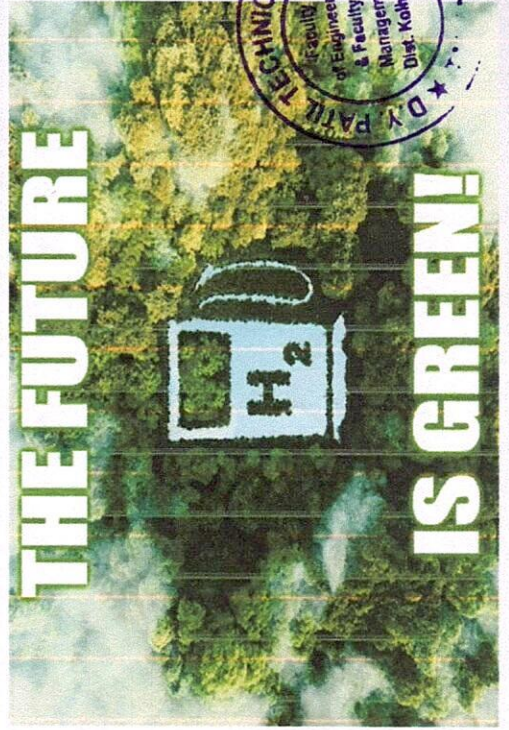
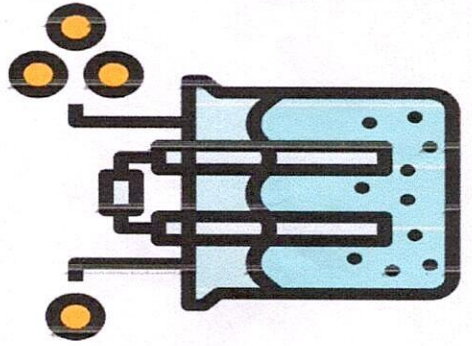




D Y PATIL
TECHNICAL CAMPUS
TALSANDE, KOLHAPUR

SMART HYDROGEN GENERATOR UNIT (100% GREEN GENERATION)

DESIGN AND DEVELOPED BY D. Y. PATIL TECHNICAL
CAMPUS RESEARCH, INCUBATION AND START-UP CENTRE





D.Y.Patil Technical Campus Faculty of Engineering & Faculty Of Management, Talsande

RESEARCH AND DEVELOPMENT CELL

STATUS INDEX FOR PATENT AND RESEARCH PAPER

SR NO	TITTLE	APPLICANT NAME AND TITTLE OF INVENTOR	PATENT STATUS	PATENT APP. NO /CBR NO	RESEARCH PAPER STATUS	RESEARCH PAPER ID	WEBSITE	SPECIAL WEB. (SCOPUS)	REMARK
01	ANIMAL SEMEN THAWAR DEVICE	D.Y.Patil Tech campus, Talsande and Prof. Arif A. Shaikh	Register	AN-387017-001 CBR no- 206517	In process	In process	In process	In process	
02	SOLAR BASED GREEN HYDROGEN GENERATOR	D.Y.Patil Tech campus, Talsande and Prof. Arif A. Shaikh	Register	AN-387018-001 CBR no- 206517	In process	In process	In process	In process	
03	BULLOCK CART WITH INDUCTION BRAKING	D.Y.Patil Tech campus, Talsande and Prof. Arif A. Shaikh	Register	AN-387019-001 CBR no- 206517	In process	In process	In process	In process	
04	Anti-sleep alarm	D.Y.Patil Tech campus, Talsande , Prof. Arif A. Shaikh and 03 students	In process	In process	Published	20546	IJARIIIE	In process	
05	Smart hybrid climate control system using IOT for cow and buffalo	D.Y.Patil Tech campus, Talsande , Prof. Arif A. Shaikh and 04 students	In process	In process	Published	3242	IJFMR	In process	
06	Smart 01 phase to 03 phase	D.Y.Patil Tech campus, Talsande , Prof. Arif A. Shaikh and 04	In process	In process	Published	2320-9364	IJRES	In process	



RESEARCH AND DEVELOPMENT CELL

STATUS INDEX FOR PATENT AND RESEARCH PAPER

	converter	students	In process	In process	Published	3415	IJFMR	In process
<u>07</u>	EV smart regeneration using super capacitor with battery bank	D.Y.Patil Tech campus, Talsande , Prof. Arif A. Shaikh and 04 students	In process	In process	Published	3415	IJFMR	In process
<u>08</u>	Milk analysis using GSM	D.Y.Patil Tech campus, Talsande , Prof. sager kumbhar and 04 students	In process	In process	Published	19620	IJARIIE	In process
<u>09</u>	EV battery charging , monitoring and controlling	D.Y.Patil Tech campus, Talsande , Prof. Arif A. Shaikh and 04 students	In process	In process	Published	20754	IJARIIE	In process
<u>10</u>	Hybrid power unit of electrical vehicle charging station	D.Y.Patil Tech campus, Talsande , Prof. Arif A. Shaikh and 04 students	In process	In process	Published	20695	IJARIIE	In process
<u>11</u>	Design and developed of automatic chattel feeder for smart agriculture	D.Y.Patil Tech campus, Talsande , Prof. Arif A. Shaikh and 04 students	In process	In process	Published	20702	IJARIIE	In process
<u>12</u>	Nutritional intake of elderly people among different	D.Y.Patil Tech campus, Talsande , Prof. Arif A. Shaikh and 04 students	In process	In process	Published	20668	IJARIIE	In process



D.Y.Patil Technical Campus Faculty of Engineering & Faculty Of Management, Talsande

RESEARCH AND DEVELOPMENT CELL

STATUS INDEX FOR PATENT AND RESEARCH PAPER

<u>13</u>	Adaptive and smart starter for three phase induction motor	D.Y.Patil Tech campus, Talsande , Prof. Arif A. Shaikh and 04 students	In process	In process	Published	<u>20695</u>	<u>IJERT12ISO 50262</u>	In process	In process
<u>14</u>	IOT base solar grass cutter	D.Y.Patil Tech campus, Talsande , Prof. Arif A. Shaikh and 04 students	In process	In process	In process	In process		In process	In process
<u>15</u>	Hybrid dust suspension system used for stone crusher	D.Y.Patil Tech campus, Talsande , Prof. Arif A. Shaikh and 04 students	In process	In process	Published	<u>20800</u>	<u>IJARIIIE</u>	In process	In process

- Total topic – 15
- Total papers – 15
- Total certificates –48



Arif A. Shaikh
Arif A. Shaikh
(R&D Head)

Satish Pawasker
14.06.2024

Dr. Satish Pawasker

Director



Design Application Details

Application Number:

387018-001

Cbr Number:

206517

Cbr Date:

25/05/2023 09:48:22

Applicant Name:

**1. D Y Patil Technical Campus Faculty of Engineering, Talsande 2. Prof. Arif
Amien Shaikh**

Design Application Status

Application Status:

Application under Process (waiting for Technical Examination)

Disclaimer: Application status is available for the application filed on or after 1st April 2009 with application no 222230. The information under "Design Application Status" is dynamically retrieved and is under testing, therefore the information retrieved by this system is not valid for any legal proceedings under the Design Act 2000. In case of any discrepancy you may contact the appropriate Patent Office or send your comments to following email IDs:

Design Office, Kolkata: controllerdesign.ipo@nic.in

Controller General of Patents, Designs and Trademarks



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Applicant Name:

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