Shree Warana Vibhag Shikshan Mandal's

TATYASAHEB KORE INSTITUTE OF ENGINEERING AND TECHNOLOGY,

WARANANAGAR

Innovation and Startup Policy

A Guiding Framework for Faculty and Students

**Warananagar, Tal. Panhala, Dist. Kolhapur Maharashtra.
PIN: 416113**

(2021-22)

Innovation and Startup Policy for Students and Faculty

Definitions

"HEI" means Higher Education Institutions

"MIC" means MHRD's Innovation Cell

"AICTE" means All India Council of Technical Education

"NISP" means National Innovation and Startup Policy

"TKIET" or **"Institute"** shall mean "Tatyasaheb Kore Institute of Engineering and Technology, Warananagar"

"TISP" or **"Policy"** means TKIET Innovation and Startup Policy.

"ISC" means Innovation and Startup Council formed by TKIET

"Faculty Member" shall mean a faculty member of "Tatyasaheb Kore Institute of Engineering and Technology, Warananagar".

"Student" shall mean a full-time student studying at "Tatyasaheb Kore Institute of Engineering and Technology, Warananagar".

"Startup" is an entity that develops a business model based on either product innovation or service innovation and makes it scalable, replicable and self-reliant as defined in Gazette Notification No. G.S.R. 127(E) dated February 19, 2019 or as per the prevailing notifications of the Government of India issued from time to time. The current definition of startup is an entity that is headquartered in India, which was incorporated less than 10 years ago, and has an annual turnover less than Rs. 100 crores.

"Equity share" also commonly referred to as ordinary share, represents the form of fractional or part ownership in which a shareholder, as a fractional owner, undertakes the maximum entrepreneurial risk associated with a business venture. The holders of such shares are members of the company and have voting rights.

ABSTRACT

TKIET INNOVATION and STARTUP Policy for Students and Faculty members

The TKIET National Innovation and Startup Policy for students and faculty will enable the institutes to actively engage students, faculties and staff in innovation and entrepreneurship related activities. This framework will also facilitate institute in bringing uniformity across HEIs in terms of Intellectual Property ownership management, technology licensing and institutional Startup policy, thus enabling creation of a robust innovation and start up ecosystem.

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About Institute

The Tatyasaheb Kore Institute of Engineering & Technology (abbreviated TKIET), (An Autonomous Institute) established in 1983, offers courses in Computer science and engineering, Mechanical engineering, Chemical engineering, Civil engineering and Electronics & Telecommunications engineering in UG and Mechanical engineering, Chemical engineering, Civil engineering and Electronics & Telecommunication engineering for PG level. TKIET is recognized by the government of Maharashtra, and is approved by the All India Council of Technical Education, New Delhi. It is accredited by the National Board of Accreditation (NBA), New Delhi. In year 2016 the institute was accredited by NAAC 'A' grade with CGPA 3.27. The Institute is affiliated with Shivaji University, Kolhapur.

Preamble

In order to enable us to understand the current role and involvement in streamlining and strengthening the innovation and startup ecosystem in the University, MHRD's Innovation Cell (MIC) along with All India Council of Technical Education (AICTE) conducted Orientation Programs on the theme "Orientation and Adoption of NISP at HEI Level" in the month of August 2020 with the following learning objectives;

- Reason for adoption of National Innovation and Startup Policy (NISP) by HEIs
- Provisions and components in NISP for HEIs to implement
- Desirable approaches, expected outcomes and likely impacts which will be created both at Micro & Macro level and Short- and Long-Term
- Task Sheet preparation: To-do list for adoption.

Tatyasaheb Kore Institute of Engineering and Technology (TKIET) , Warananagar constituted a committee according to MIC instructions to brainstorm and develop TKIET Innovation and Startup Policy (TISP) to address the need for inculcation of innovation and entrepreneurial culture in the institute. This committee deliberated on various facets for nurturing innovation and Startup culture in TKIET, which covered Intellectual Property ownership, revenue sharing mechanisms, norms for technology transfer & commercialization, equity sharing, etc. After several rounds of discussion, "TKIET Innovation and Startup Policy (TISP)-2021" for students and faculty of TKIET was prepared.

Vision

"To create 'technology based and knowledge driven Startup ecosystem' by fostering 'culture of innovation and entrepreneurship' which contributes to increased knowledge, wealth and employment in our society".

Mission

- To orient the educational infrastructure of the institute towards startups and entrepreneurship opportunities for student and faculties.
- To strengthen the innovation-based entrepreneurship development infrastructure
- To encourage and to support students, faculty and staff to consider startups and entrepreneurship as a career option.

- To provide enabling mechanisms to start-ups, through training and skill development, capacity building, networking, access to knowledge & support services, etc. on continuous basis.
- To provide the guidelines to stakeholders of TKIET for developing entrepreneurial agenda, managing Intellectual Property Rights (IPR) ownership, technology licensing and equity sharing in Startups or enterprises established by faculty and students.

Constitution of Innovation and Startup Council (ISC)

Innovation and Startup Council's composition based on National Innovation and Startup Policy (NISP) guidelines is proposed to be as follows:

Sr.No.	Name	Member Details	Designation	Count
1	Dr. S.V. Anekar	Principal of the Institute	President	1
2	Prof. K.N. Kamble	Faculty Member	Convener	1
3	Prof. D.S. Mane Prof. R.G. Hiregoudar	Faculty, Member	Member	2
4	Mr. Adnan B. Attar	ISCs Coordinator (UG Student Final Year)	Coordinator	1
5	Prof. P.M. Gavali, Assistant Professor, DKTE, Ichalkaranji.	Representative from nearby Incubation Center	Member	1
6	Mr. Amol N. Sakharape, Manager, Ext. Counter, Warana Sahkari Bank, Warananagar.	Representatives of SIDBI / NABARD / Lead Bank / Investor or Local entrepreneur	Member	1
7	Mr. Pratap Patil, CEO, Walstar Technologies, Kolhapur	Technical Experts from nearby Industry	Member	1
8	1. Miss. Sayali Patil, Owner and Founder, WebWay Enterprise, Warananagar 2. Mr. Vishal Jadhav Owner and Founder, Sanjeev Industries, Islampur.	Alumni Entrepreneurs from the Host Institutions	Member	2
9	1. Swaraj Dewardekar (CSE) 2. Tayyab Pinjari (Civil) 3. Vishkha Shinde (Chem) 4. Sujay Deshpande (Mech) 5. Rajvardhan Chavan (ENTC)	Students from the host institution (From Every Department)	Member	5

Functions of Innovation and Startup Council (ISC)

- To conduct various innovations and entrepreneurship-related activities prescribed by MIC.
- Identify and reward innovations and share success stories.
- Organize periodic workshops, seminars and interactions with entrepreneurs, investors and professionals and create a mentor pool for student innovators.
- Network with peers and national entrepreneurship development organizations.
- Organize Hackathons, Idea Competitions, Mini-challenges, etc. with the involvement of industrial partners

TKIET Innovation and Startup Policy 2021
for Students and Faculty

1. Strategies and Governance

- With the help of Innovation and Startup Policy, TKIET intends to create an ecosystem that can generate an entrepreneur in every family. To facilitate development of an entrepreneurial ecosystem in TKIET, specific objectives and associated performance indicators shall be defined for assessment.
- Implementation of the entrepreneurial agenda will be the responsibility of the ISC Convenor, TKIET to bring in required commitment, which will be supported by the higher authorities of TKIET.
- For expediting the decision making, hierarchical barriers should be minimized, and individual autonomy to be given to each incubator.
- Research / activities in Startups where Microbial/ Animal/ human subjects are involved, clearance from respective ethics committee of TKIET should be obtained.

2. Startups Enabling Institutional Infrastructure

- The Innovation and Entrepreneurship Development Cell (IEDC) of TKIET , Warananagar is an active student-run cell for Interdisciplinary Research (CCIR) that seeks to create and promote innovation and entrepreneurship skills among the students of TKIET.
- This cell is running in collaboration with Maharashtra Centre for Entrepreneurship Development (MCED) which not only provides the quality entrepreneurship training but also provides the handholding support to all the trainees unless and until their dreams become reality.
- This cell is accessible to students, staff and faculty of all disciplines and departments across the institutes including startup from vicinity.
- This cell also fosters the innovative thinking and becoming a facilitator between the students inside the campus and the industry outside by acting as a hub of contacts and network that helps in finding the wannabe entrepreneurs the right people to approach for any task.

3. Nurturing Innovations and Startups

- IEDC cell will provide a facilitating environment for UG, PG, Ph.D., Post-Doctoral students, Research Staff, faculty (including temporary), alumni of TKIET and potential Startup applicants even from outside TKIET.
- All students of Ph.D/ M.Tech./Professional PG courses have to register with IEDC cell.
- Details regarding innovation / product development related to their research /project topic should be included in Ph.D thesis/ dissertation.
- Best Student innovation award will be decided as per TISP Guidelines.
- Best Mentor award for innovation also will be decided as per TISP Guidelines.

- Inculcate innovation and entrepreneurship knowledge across the faculty and students by
  - i. Conducting summer schools, awareness programs and training sessions for the students and faculty to write proposals.
  - ii. Conducting orientation programs on success stories.
  - iii. Encouraging students and faculty to attend free International & National online programs.
  - iv. Innovator centric provision for industrial visits periodically to stimulate & the opportunity to observe the innovation and strategy Coupled with the business.
  - v. Ideas collection from all the students/ faculties of the university with an idea box.
  - vi. Conducting number of Hackathons among students community to increase awareness on innovations and Startups.

4. Norms for Faculty Startups

- For better coordination of the entrepreneurial activities, norms for faculty to do startups should be created by the institutes. Only those technologies should be taken for faculty startups which originate from within the same institute.
  - i. Role of faculty may vary from being an owner/ direct promoter, mentor, consultant or as on-board member of the startup.
  - ii. Institutes should work on developing a policy on 'conflict of interests' to ensure that the regular duties of the faculty don't suffer owing to his/her involvement in the startup activities.
  - iii. Faculty startup may consist of faculty members alone or with students or with faculty of other institutes or with alumni or with other entrepreneurs.
- In case the faculty/ staff holds the executive or managerial position for more than three months in a startup, they will go on sabbatical/leave without pay/utilize existing leave.
- Faculty must clearly separate and distinguish on-going research at the institute from the work conducted at the startup/company.
- In case of selection of a faculty startup by an outside national or international accelerator, a maximum leave (as sabbatical/ existing leave/ unpaid leave/ casual leave/ earned leave) of one semester/ year (or even more depending upon the decision of review committee constituted by the institute) may be permitted to the faculty.
- Human subject related research in Startup should get clearance from ethics committee of this Institution.

5. Pedagogy for Innovation and Entrepreneurship Development

- The Departments shall be advised to change the course curriculum to be in tune with the emerging technologies and align to the requirements of the Industry and to introduce courses in entrepreneurship development through innovators.
- Industry Experts may be leveraged to teach courses at IEDC cell and students who are interested may elect these courses.

- The evaluation provided by approved industry experts may be sent by the innovators to colleges/university for inclusion in the electives that students can learn as part of the degree course.
- A PGD course in Innovation and Entrepreneurship may be started where one can get degree while nurturing a Startup company.
- Inviting national and international experts related to entrepreneurship on a regular basis to strengthen Startup efforts.
- Facilitation in a variety of areas including technology development, ideation, creativity, design thinking, fund raising, financial management, cash-flow management, new venture planning, business development, product development, social entrepreneurship, product costing, marketing, brand-development, human resource management as well as law and regulations impacting a business.
- College Level Entrepreneurship Development Cell shall foster innovation and entrepreneurial spirit.
- Showcase for innovations done in the university.
- Mockup marketing place for innovators to initiate marketing in the campus.
- Institute shall be advised to host Startup related National/International level workshops and conferences to promote Innovation and Startups.

6. Collaboration, Co-creation, Business relation

- Stakeholder engagement would be given prime importance in the entrepreneurial agenda of the institute. Institutes would find potential partners, resource organizations, micro, small and medium sized enterprises (MSMEs), social enterprises, schools, alumni, professional bodies and entrepreneurs to support entrepreneurship and co-design the programs.
- The institute has developed policy and guidelines for forming and managing the relationships with external stakeholders including private industries.
- Knowledge exchange through collaboration and partnership would be made a part of institutional policy and institutes must provide support mechanisms and guidance for creating, managing and coordinating these relationships.
- Through formal and informal mechanisms such as internships, teaching and research exchange programmes, clubs, social gatherings, etc., faculty, staff and students of the institutes would be given the opportunities to connect with their external environment.

7. Entrepreneurial Impact Assessment

The various parameters to be considered for Entrepreneurial Impact Assessment are

- Satisfaction of the participants in micro degree certification program, workshops and training programs
- Participation in awareness programs
- Utilization of IEDC cell facilities by students
- Number of curriculum projects addressing real life problems
- Participation in various idea, Project, Prototype, Business-plan competitions and hackathons

- Participation in pitching for fund raising and grants/support from government and non-government agencies
- Contribution in industrial projects and consultancy projects
- Idea to projects
- Product development and its launching in the market
- Fund raising
- Startup registrations and company incorporation
- Annual Turn over
- IPR application filing, grant and commercialization

8. Review of the Policy

Considering the feedback from students, faculty, ISC members and stakeholders which is the reflection of impact of the existing policy shall organize the review committee meeting and finalize the recommendations of the review committee.

PRINCIPAL