



**Vimal Jyothi Engineering College (VJEC),
Chemperi, Kannur, Kerala**
**National Innovation and Start-up Policy 2019 (NISP)
Implementation for students and faculty in HEIs**



About VJEC

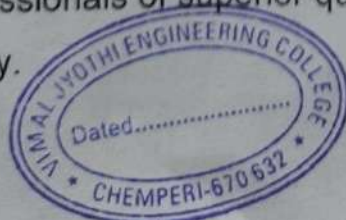
Vimal Jyothi Engineering College (VJEC) is an educational project of the Archdiocese of Thalasseri established in the year 2002 and is managed by Meshar Diocesan Educational Trust. The college is approved by AICTE and affiliated to APJ Abdul Kalam Technological University (KTU). VJEC is a self-financing catholic minority institution aiming at generating a fervor for Engineering and Technology in students. Here we inspire, nurture and foster them to realize their career potential in the field of Engineering and Technology.

With profound insight into the resource requirements of the higher education system, VJEC has proudly set up world-class infrastructure complemented with intellectual capital in the form of competent faculty. Many of the facilities are way beyond the regulatory requirements aiming for learning beyond the syllabus to address the requirements of the industry. These material facilities along with value addition programs and student support systems are the integral facets of empowerment at VJEC.

Digital library, industry supported project labs, language lab, and student chapters of professional bodies such as IEEE, ISOI, IETE, SAE, CSI offer an extensive range of resources, opportunities and services to the outcome-based teaching learning process. Effective implementation of quality control processes ensures Engineering graduates with the expected level of knowledge, skill and attitude.

Vision of VJEC

To bloom into a Center of Excellence for Technical Education and a pace-setter in rural India with its quality processes and procedures, interwoven with freedom of flexibility, moulding professionals of superior quality, dedicated to the progress and development of Humanity.




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Mission of VJEC

To prepare the students to see beyond geographical limit and belong to a new age of acquisition and application of technology to meet the challenges of the changing world. Inspired and guided by gospel values, we contribute to the socioeconomic welfare of the country with due concern to the marginalized.

Preamble

National Innovation and Start-up policy was published by Ministry of Education (MoE) in 2019. In the website of MoE's innovation Cell says that "this policy intends to guide HEIs for promoting students' driven innovations & start-ups and to engage the students and faculty in innovation and start up activities in campus. The policy aims at enabling HEIs to build, streamline and strengthen the innovation and entrepreneurial ecosystem in campus and will be instrumental in leveraging the potential of student's creative problem solving and entrepreneurial mind-set, and promoting a strong intra and interinstitutional partnerships with ecosystem enablers and different stakeholders at regional, national and international level.

The policy is being implemented by MoE's Innovation Cell and in coordination AICTE, UGC, state/ UT governments and universities. Implementation of policy has been undertaken for quick adoption by HEIs. The present policy is a way forward to the earlier version of AICTE's Start-up Policy which was launched in the year 2016 to complement the Start-up Action Plan under the Start-up India and Stand-up India Program launched by Hon'ble Prime Minister of India".



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In line with the above, VJEC is dedicated to inculcate innovative and entrepreneurial attitude in students and faculties. This in-turn will support the policy of the country to move in the path of developing innovation and to become a self – sufficient country in all aspect.

Objective

To inculcate innovative and entrepreneurial skills in students and faculties and there by providing solutions to problems of rural India.

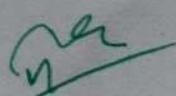
Short Term Goals

- Organize FDPs, seminars and workshops for students and faculties in the area of innovation, entrepreneurship, and IPR.
- Develop start-up culture among students and faculties.
- Help students and faculties to make prototypes of their innovative ideas.

Long Term Goals

- Enhance quality research among students and faculties.
- Get funds for research, prototype, and product development from DST, AICTE, MHRD, DRDO, etc.
- Generate revenues from consultancy.
- Collaborate with industry and Kerala Start-up mission for innovative activities.




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Key Performance Indicators (KPIs) for the Institute

Key Performance Indicators (KPIs)	Outcome
Programs to be conducted on innovation, entrepreneurship, IPR etc	Will be Calculated in numbers such as no. of programs conducted, no. of participants, etc.
Programs to be conducted on start-ups by experienced and successful entrepreneurs	No. of programs conducted
Start-ups by students and faculties	No. of start-ups in every academic year
Students' projects to be converted in to design or product patents	No. of patents submitted every year

1. HEIs Strategies & Governance for Promoting Innovation & Entrepreneurship

- 1.1 Institute will encourage the faculty members and students to participation in the NISP promoting programs for innovation and entrepreneurship.
- 1.2 Investment in the innovation and entrepreneurial activities will be a part of the institutional financial strategy and minimum 1% of the total annual budget of the institution will be allocated for supporting innovation and start-ups related activities.
- 1.3 Institute will also involve in acquiring funds from various government and non-government agencies to promote these activities.




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1.4 Importance of innovation and entrepreneurial activities will be highlighted among various stakeholders through various programs.

2. Creating Innovation Pipeline and Pathways for Entrepreneurs

2.1 Awareness about Innovation, entrepreneurship, IPR etc will be spread among students, faculty and staff to create the culture of innovation.

2.2 Also, these stakeholders will be taught the importance of problem solving and innovation is one of the best methods for that.

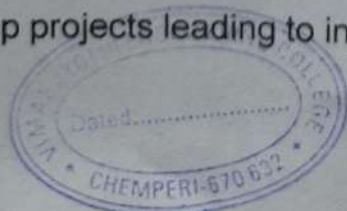
2.3 They also will be encouraged to participate in the various programs to enhance innovative and entrepreneurial skills.

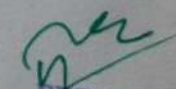
2.4 Institute Innovation Council (IIC) is already constituted in the institution and the activities of the cell will be in such a way that the various stakeholders get the information and knowledge about the innovative activities happening in the institution as well as in the country.

2.5 In addition to this, students will be encouraged to take up innovative projects in the final year and institution will assist them to apply for IPR.

3. Building Organizational Capacity, Human Resources and Incentives to support and promote innovative and entrepreneurial activities

3.1 The qualified faculties of VJEC will be encouraged to develop their own innovative projects or fortified them to guide the students, especially final year students of VJEC to take up projects leading to innovation and in turn apply for IPR.




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3.2 Also, VJEC is dedicated to help the faculty to equip them to develop innovative ideas by providing expert talk in various fields of innovation and entrepreneurship.

3.3 Additionally, VJEC will promote industrial and start – ups collaboration to help the faculty to solve societal problems.

3.4 Faculty and staff will be encouraged to do short – term or long – term courses on innovation, entrepreneurship and start – up development.

3.5 Incentives and increment will be provided to staff and students to enhance innovative and entrepreneurial ecosystem in the campus. The annual appraisal system will evaluate these activities and performances by each staff. This is also to help retain the staff who are involving more in innovative projects and developing entrepreneurial skills.

4. Collaboration, Co-creation, Business Relationship and Knowledge Exchange within campus and among the ecosystem enablers co-exist at regional and national level

4.1 VJEC is dedicated to have collaboration with industries, government agencies, premier institutes within India and abroad.

4.2 Also, the institution will coordinate with nearby schools, local self-governance, and alumni to promote innovative and entrepreneurial activities within the campus. This will help the stake holders of the institution to identify problems of society and finding solution to such problems.




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4.3 Memorandum of Understandings (MoU) with various industries, Government agencies, premier institutions, etc. will be part of the innovation and entrepreneurial ecosystem for providing staff and students maximum benefits to develop innovative products, start – ups, and enterprises. This will help them to inculcate the culture of innovation and start - ups.

4.4 Sharing the know how and the innovative activities carried out in the above – mentioned industries and institutes will be part of the MoU.

4.5 The MoU with the industries and institutes are to help the staff and students of VJEC to exploit the opportunities for developing the culture of innovation and entrepreneurship within the campus.

5. Incentivizing Students for Entrepreneurship and Start-up pursuits

5.1 Students will be encouraged to start their start – ups or enterprises as part of the entrepreneurial and innovation ecosystem of VJEC.

5.2 Activity points will be provided as per the regulations of APJ Abdul Kalam Technological University, Kerala (KTU) to the students who are actively participating in the entrepreneurial and innovative activities.

5.3 Support from the Campus and collaborating agencies will be provided to the students.

5.4 Assistance will be provided to the students regarding the rules and regulations for starting Entrepreneurship and start – ups.



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5.5 Certain percentage of the profit to the institute, if any, from start – ups by students will be allocated to enhance the innovation and entrepreneurship ecosystem.

6. Incentivizing faculty and Staff for Entrepreneurship and Start-up pursuits

6.1 Staff will be encouraged to start their start – ups or enterprises without affecting the regular academic and administrative activities as part of the entrepreneurial and innovation ecosystem of VJEC. Relaxation will be provided with the consent from Management, Principal, and HODs.

6.2 Incentives or increments or promotion based on the performance assessment in the annual appraisal of staff will be sanctioned.

6.3 Support from the Campus and collaborating agencies will be provided to the staff.

6.4 Assistance will be provided to the staff regarding the rules and regulations for starting Entrepreneurship and start – ups.

6.5 Certain percentage of the profit to the institute, if any, from start – ups by staff will be allocated to enhance the innovation and entrepreneurship ecosystem.

6.6 For staff and faculty, institute can take no-more than 20% of shares that staff / faculty takes while drawing full salary from the institute; however, this share will be within the 9.5% cap of company shares, listed above.



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6.7 No restriction on shares that faculty / staff can take, as long as they do not spend more than 20% of office time on the start – up in advisory or consultative role and do not compromise with their existing academic and administrative work / duties. In case the faculty/ staff holds the executive or managerial position for more than three months in a start – up, then they will go on sabbatical/ leave without pay/ earned leave.

7. Incubation & Pre-incubation support and facility creation in HEIs

7.1 VJEC is enthusiastic to develop Pre-incubation and incubation facilities for nurturing innovations and start – ups.

7.2 Incubation and Innovation activities will be fostered in students and staff and efforts will be taken to develop an innovation and start – ups ecosystem within the campus.

7.3 Pre-Incubation and Incubation facility within the campus will be accessible to students, staff and faculty of all departments across the institution. This will help the stakeholders to develop their own innovative ideas, start – ups and enterprises.

7.4 Technology Business Incubator (TBI) and Student Innovation and Entrepreneurship Club will work in the campus for developing the ecosystem.

7.5 Technology Business Incubator (TBI) will offer mentoring and other relevant services through Pre-incubation and Incubation process for students and staff of VJEC without any fees in the short – term period and in-return for fees or equity sharing in the long – term period.



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8. IP ownership rights for technologies Development and transfer in HEIs

8.1 In the case of facilities and funds of VJEC are used substantially, IPR is developed as a part of curriculum/ academic activity, IPR is to be jointly owned by inventors and the institution.

8.2 One or more of the inventors want to nurture a company based on the IPR jointly owned, the royalties would be no more than 4% of sale price unless it is a pure software product.

8.3 If it is shares in the company, shares will again be 1% to 4%. If the product is software, shares will be divided based on the mutual agreements between VJEC and / or incubation center and the incubated company.

8.4 If the product or IPR is developed by innovators not using any facilities, developed outside office hours (for staff and faculty) or not as a part of curriculum by student, then product/ or IPR can be entirely owned by inventors in proportion to the contributions made by them. In this case, inventors can decide to license the technology to third parties or use the technology in the way they want.

8.5 A minimum of five membered committee will be formed if there is a dispute in ownership. The committee members will be consisting of two faculty members (having experience in developing IPR), two industry experts or alumni (having experience in technology commercialization) and one legal advisor with experience in IPR, will examine the issue after meeting the inventors. The institution can use alumni / faculty of other institutes as members, if they cannot find sufficiently experienced alumni / faculty of their own.




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8.6 Centre of Innovation or Technology Business Incubator will act as a coordinator and facilitator for providing services to faculty, staff and students. They will have no role on the way the invention is carried out, or the way the product is patented or the way it is licensed. The quality of the IPR will be examined by the Institution or Centre of Innovation or Technology Business Incubator when institution is paying for patent filing. The examination is carried out by a committee formed by the institution. The committee should consist of faculty who have experience and excelled in technology translation and / or industry experts. Funds are from inventors itself or if it is non-institutional funds, then the inventors can decide the way they are going to patent their innovation.

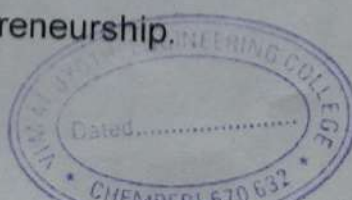
8.7 The committee which decide on the incubation / IPR / technology-licensing will consist of faculty and experts who have excelled in technology translation. VJEC is devoted to promote Interdisciplinary research and publication on start – up and entrepreneurship.

9. Pedagogy and Learning Interventions for Innovation and Entrepreneurship Development

9.1 Entrepreneurship education will be provided to students by encouraging them to participate in short – term and long – term training programs.

9.2 The elective courses related to product development or entrepreneurship or start – ups will be provided to students if it is prescribed in the curriculum set by KTU.

9.3 Seminars and workshops will be conducted for students and staff to impart the significance of innovation and entrepreneurship.



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10. Entrepreneurial Performance Impact Assessment

10.1 VJEC is committed to assess the impact of entrepreneurial initiatives such as pre- incubation, incubation, and entrepreneurship education on a regular basis.

10.2 Monitoring and evaluation of knowledge transfer between VJEC and collaborating agencies will be done periodically.

10.3 Assessment of engagement of departments including students and staff in the entrepreneurial teaching and learning will also be completed once or twice in an academic year.

10.4 Number of start-ups created, support system provided at the institution level and satisfaction of participants, new business relationships created by the institution will be recorded and used for impact assessment.

10.5 Impact will also be measured for the support system provided by the institution to the student entrepreneurs, faculty and staff for pre-incubation, incubation, IPR protection, industry linkages, exposure to entrepreneurial ecosystem, etc.

10.6 Formulation of strategy and impact assessment will go hand in hand. The information on impact of the activities will be actively used while developing and reviewing the entrepreneurial strategy.

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