CMR INSTITUTE OF TECHNOLOGY
(UGC AUTONOMOUS)
Approved by AICTE | Accredited by NAAC with 'A' Grade
All B. Tech Programs Accredited by NBA

EXPLORE TO INVENT

**CMR Institute of Technology National Innovation and Startup Policy**

**Vision:**

The 'National Student and Faculty Startup Policy-2019' is initiated by MHRD's Innovation Cell and AICTE. It is a guiding framework to envision an educational system oriented towards start-ups and entrepreneurship opportunities for students and faculty member.

The guidelines provide ways for developing entrepreneurial agenda, managing Intellectual Property Rights (IPR) ownership, technology licensing and equity sharing in Start-ups or enterprises established by faculty and students and encourage them to actively pursue the path of innovation and entrepreneurship.

Our vision is to develop high quality technical human resource capable of pursuing cutting edge research and innovation and competent entrepreneurship.

**Mission:**

- To establish vibrant and dynamic Startup Ecosystem across all the departments.
- To enable the institute to actively engage students, faculties and staff in innovation and entrepreneurship related activities.
- To create a space for Collaboration, Co-creation, Business Relationships and Knowledge Exchange.
- To facilitate the institute in terms of Intellectual Property (IP) ownership management, technology licensing and equity sharing.

**Objectives:**

- Innovation Development
- Entrepreneurship Exposure and Skills Development
- Support Facilities for Start-up Services
- Inter-Institutional Partnership

- Network with Regional and National Start-up Eco-System
- Industry Support, Corporate & Private Partnership Linkage
- Technology Commercialization

**Short-term Goals:**

- Developing critical thinking skills to motivate students and faculties with entrepreneurial abilities.
- Building Innovation and Incubation ecosystem by providing resources available at the Institute.
- In-house competency development to serve potentiality to the incubators.
- Strengthen the intra and inter institutional linkage with ecosystem enablers at different levels.
- Defining Key Performance Indicators (KPIs) for Entrepreneurial Performance Impact Assessment.

**Long-term Goals:**

- Innovation, Pre-incubation, Incubation and startup facilities on the campus
- Academic courses offered by the institute on Innovation, IPR and Start-ups
- Obtaining scientific and technical patents by Incubators and Startups
- Collaboration, Co-Creation and Technology Exchange and Commercialization
- Emerging successful Innovation and Start-ups from the Institute
- Increase technical employment rate through self-employment by Startups
- Developing Key Performance Indicators ( KPIs) for Entrepreneurial Performance Impact Assessment.
- Creating societal, ethical and technological entrepreneurs through National Innovation and Start-up Policy.

**Deliverables:**

- Inculcating awareness on Innovation and Start-ups among students and faculties
- Imparting education on Innovation and Entrepreneurship development
- Providing State-of-art facilities

- Enterprise Support from Corporate Social Responsibility(CSR)
- Arena with skilled professionals to make Industry ready.
- Constituting Advisory Services Committee to address grievances
- Promoting active Research & Advocacy
- Inter-Department linkages and Inter-Institutional Linkages

**Promotion:**

- Organize Workshops /Lectures/Seminars/eTalk/ Boot Camp etc
- Conduct Online and Class Room Education and Training& Mentoring
- Integration of Experiential Learning
- Establishment of Start-up Cell
- Scout, Recognize Support Ideas, Innovation and Startups
- Innovation and Start-up Repository Build-up
- Setup Advisory Service Expert Pool
- Training-FDPs and EDPs
- Incentives for experts from Industry
- Research Studies and Advocacy Programs
- Mentor, Start-up Cell Network, Business & Referral Service
- Convergence and Leverage for Govt. Schemes and Programs
- Organize National and Regional Level Events

**Thrust Areas of NISP**

A. Strategies and Governance for Promoting Innovation & Entrepreneurship
    - Creating Innovation Pipeline and Pathways for Entrepreneurs.
    - Building Organizational Capacity, Human Resources and Incentives.
    - Collaboration Co-creation and Business Relationship and Knowledge Exchange.

B. Norms for Faculty and Students Driven Innovations and Startups
    - Incentivizing Students for Innovation and Entrepreneurship
    - Incentivizing Faculties & Staff for Innovation and Entrepreneurship
    - Norms for Faculty Startup

C. Incubation & Pre-Incubation Support Facility Creation and Access

D. IP Ownership Rights for Technologies Developed at Higher Educational Institutions.

E. Pedagogy and Learning Interventions for Entrepreneurship Development

F. Entrepreneurial Performance Impact Assessment

**Processes and Mechanisms:**

1. **Incubation support**

- Setting up a start-up and allowing students, faculty and research staff to work part-time for the start-ups while studying / working.
- Creating facilities within the institution for supporting pre-incubation (e.g. IICs as per theguidelines by MHRD's Innovation Cell, EDC, IEDC, New-Gen IEDC, Innovation Cell, Startup Cell, Student Clubs, etc.) and Incubation/ acceleration by mobilizing resources from internal and external sources.
- Provide business incubation facilities:
- Premises at subsidized cost.
- Laboratories,
- Research facilities,
- IT services,
- Training and Mentoring Services, etc.
- Licensing of IPR from institute to start up

**1. Student support**

- Induction program about the importance of I&E to be conducted to the first year students. So that freshly inducted students are made aware about the entrepreneurial agenda of the institute and available support systems
- Supporting the students in terms of providing address for their Incubation cell, Semester break, attendance and accommodation.
- Student clubs/ bodies/ departments must be created for organizing competitions, boot camps, workshops, awards, etc.
- 'Innovation & Entrepreneurship Award' to recognize outstanding ideas, successful enterprises and contributors:
- Innovation champions would be nominated within the students/ faculty/ staff for each department/ stream of study

**2. Faculty Support**

- Institute would recruit staff that have a strong innovation and entrepreneurial/ industrial experience, behavior and attitude. This will help in fostering Innovation and Entrepreneurship culture.
- Faculty and departments of the institutes have to work in coherence and cross-departmental linkages
- Faculty and staff should be encouraged to do *courses on innovation, entrepreneurship management and venture development.*
- Guest Lectures by Subject Matter Experts (SME)

**3. Course design in MS/ MBA/ PGDM**

- For creating awareness among the students, the teaching methods should include case studies on business failure and real-life experience reports by start-ups.
- Pedagogical changes need to be done to ensure that maximum number of student projects and innovations are based around real life challenges
- Short-term/ six-month/ one-year part-time entrepreneurship training.
- Designing courses 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.

4 **Networking or Collaborating Support:**

- Institute may also link the startups to other seed-fund providers'/ angel funds/ venture fundsor itself may set up seed-fund once the incubation activities mature.
- Providing support to students who show potential, in pre-startup phase to link their start-upsand companies with wider entrepreneurial ecosystem
- Networking events to be organized to create a platform for the budding entrepreneurs to meet investors and pitch their ideas.
- Establishing a Start-up and Entrepreneur ecosystem with Collaboration, Co-creation, Business Relationships and Knowledge Exchange.

**Benchmark- KPI Monitor & Evaluation**

| Hierarchy of Objectives | Key Performance Indicators (KPIs) | Means and Verification |
|---|---|---|
| **Vision** | Our vision is to develop high quality technical human resource capable of pursuing cutting edge research and innovation and Competent entrepreneurship. | ARIIA,NIRF Rankings, Feedback from Students |
| **Goal/ Impact** | Students will choose Entrepreneurship as career. The Environment enables multiple level of support for innovation & Entrepreneurship in the institute, Entrepreneurship, students are provided competent atmosphere and encouraged for innovative ideas, patents. | Reports on Average Monthly or Yearly, Performance, Biannual Survey, ARIIA,NIRF Rankings |
| **Outcomes** | Students & faculty's motivated to start any entrepreneurial activity, developedIPR/Innovations for commercialization, Network Established by connecting multiple stakeholders & Ecosystem Enablers .Revenue Growth ,Net Profit Margin, Operational Cash Flow, Satisfaction over Advisory services are offered to Innovators& Early Stage Entrepreneurs | Reports on Average Monthly or Yearly Performance, Biannual Survey |
| **Outputs** | Regional, National and International linkages are established for the start-up & innovation, Budget allocation and Spend ratio for the start-up<br><br>Converting Student projects to (commercialize) Innovations, Coverage of Students through entrepreneurship Education, Student & faculty awareness/orientation building programs.<br><br>Research Studies on Entrepreneurship published, Award and supports is provided identified innovator, national and regional award and campus Hackathon like events are organized<br><br>IPR based product/services are generated and registration filed, Beneficiaries are generated under various schemes and programs leveraged and converged at Start-up Cell | Biannual Survey, Quarterly News Letter, Monthly progress report, Review Meetings |

## Tentative Schedule Plan for the Next 5 Years

| Sl.No | Activity | Frequency |
|---|---|---|
| 1. | Seminar on Understanding Angel and Venture Capital Funding - What is there for early-stage Innovator & Entrepreneurs | 2/Year |
| 2. | Three Days Workshop on "Entrepreneurship and Innovation as Career Opportunity" | 2/Year |
| 3. | Special Talk on My Story - Entrepreneur's Life & Crossroad – Motivational Speak - To be Share by Entrepreneurs | 2/Year |
| 4. | Two Day Workshop on Problem Solving/Design Thinking/Ideation Workshop/ Campus Hackathon, etc. | 2/Year |
| 5. | Field/Exposure Visit to Incubation Unit/Patent Facilitation Centre/Technology Transfer Centre | 1/Year |
| 6. | Product Development Phases - Story Telling - (Innovators in Campus) | 2/Year |
| 7. | Field/Exposure Visit to Village/Society /School/Industry/Market – Identity real Life Problem | 1/Year |
| 8. | Exhibition Cum Demo for PoCs& Mentorship Session for Innovators (or) Student Entrepreneurs | 1/Year |
| 9. | Internship at Innovation & Start-up Centre/Start-ups/Incubation Unit etc. during Semester Break | 2/Year |
| 10. | One Day Awareness/Mentoring Session on IPR & IP Management for Innovation and Start-ups | 2/Year |
| 11. | Two Day Workshop on Business Model Canvas (BMC) and (or) Business Plan Competition to Invite Innovative Business Models from Students | 2/Year |
| 12. | Seminar on "How to plan for Start-up and legal and Ethical Steps | 2/Year |
| 13. | CMRIT Business Plan Contest | 2/Year |
| 14. | Field/Exposure Visit to Design Centre/Makers' Space/Fab Lab/Prototype Lab/Tinkering Lab etc | 1/Year |
| 15. | Seminar on "Hangout with Successful Start-ups" (Entrepreneurs in Campus) | 2/Year |
| 16. | Bootcamp for Innovation product development | 1/Year |
| 17. | Seminar on - Opportunity for Student Faculty - Early-Stage Entrepreneurs | 2/Year |
| 18. | Innovation and Entrepreneurship Annual Day | 1/Year |
| 19. | Two Day Workshop Funding Opportunities for Innovation and Entrepreneurship Development | 1/Year |
| 20. | Innovation Day Celebrations | 1/Year |
| 21. | National Science Day | 1/Year |
| 22. | National Technology Day | 1/Year |
| 23. | CMR Institute of Technology Hackathon(Hardware &Software) | 1/Year |
| 24. | Smart India Hackathon | 1/Year |
| 25. | Short Term Training course on Innovation /Start-up & Entrepreneurship | 1/Year |

**NISP Implementation Committee:**

A committee has been formed by identifying the experts having expertise and experience in the domain of innovation, IPR and startup to start the work of policy formation and implementation of guidelines at the institute.

| S.No | Name and Designation | Department / Industry/Alumni | Role |
|---|---|---|---|
| 1. | Dr. B. Satyanarayana, Prof., CSE | Principal | Chairman |
| 2. | Prof. A. Prakash, HOD | CSE | Member |
| 3. | Dr. K. Niranjan Reddy, Prof. & HOD | ECE | Member |
| 4. | Prof. A. Krishna Rao, HOD | CE | Member |
| 5. | Dr. T. Vishnuvardhan, HOD & IIC coordinator | ME | Member |
| 6. | Prof. P. Pavan Kumar, HOD H&S, NIRF coordinator | CSE | Member |
| 7. | Prof. G. Umamaheswara Rao, HOD & IPR coordinator | MBA | Member |

| | | | |
|---|---|---|---|
| 8. | Dr. Vinit Kumar Gunjan, Dean of Academics | CSE | Member |
| 9. | Dr. Nirmal Kumar, Dean Students affairs | CSE | Member |
| 10. | Dr. Vijender Kumar Solanki, Dean R&D | CSE | Member |
| 11. | Mr. Rajender Gugulothu, Social Media coordinator | ECE | Member |
| 12. | Dr. Balram, internship Activity coordinator | ME | Member |
| 13. | Mr. Veeresh,, ARIIA coordinator | CSE | Member |
| 14. | Mr. S Gopala Krishna, Innovation Activity coordinator | ECE | Member |
| 15. | Mr.T.Nagaraju, IIC coordinator | CSE | Member |
| 16. | Mrs.Sunitha Devi,Startup Activity coordinator | CSE(DS) | Member |
| 17. | Mr.G.Venkat Ramana, Start-up coordinator | ME | Member |
| 18. | Mr. Kapil Kumar P,Software Engineer, Broadcom | Industry Expert | Member |
| 19. | Mrs. P. Srilatha, Asst. Manager, Health Dept, Govt. of Telangana | Alumni | Member |
| 20. | Mr. Nitish Sana, Business Analyst, ADP, Hyderabad, | Alumni | Member |
| 21. | Mr. V. Visweswara Reddy, Managing Director, VVR Industries, Hyd. | Industry Expert | Member |
| 22. | Dr B Sridhar Babu, Prof & ARIIA coordinator | ME | Member Secretary |

Principal

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