National Innovation and Startup Policy (NISP) of RCCIIT

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 student and faculties.

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 student and encourage them to actively pursue path of innovation and entrepreneurship

Our vision is to develop high quality technical human resource capable of doing cutting edge research and innovation and deep-tech 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
- Encouragement for patent
- 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

Thrust Areas of NISP 2019

A. Strategies and Governance for Promoting Innovation & Entrepreneurship
o   Creating Innovation Pipeline and Pathways for Entrepreneurs.
o   Building Organizational Capacity, Human Resources and Incentives.
o   Collaboration Co-creation and Business Relationship and Knowledge Exchange.
B. Norms for Faculty and Students Driven Innovations and Startups
o   Incentivizing Students for Innovation and Entrepreneurship
o   Incentivizing Faculties & Staff for Innovation and Entrepreneurship
o   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 the guidelines 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

2. Student support

- Induction program about the importance of I&E to be conducted 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

3. Faculty Support

- Institute would recruit staff that have a strong innovation and entrepreneurial/ industrial experience, behaviour 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)

4. 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.

5. Networking or Collaborating Support:

- Institute may also link the startups to other seed-fund providers'/ angel funds/ venture funds or 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-ups and 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.

Institute Start up policy

Institute will follow three-component model for the NISP consisting of students, institutional infrastructure (utilized by the students for carrying out their works) and finally the start ups for bringing funds. Start-Ups can also be allowed to use the infrastructure set-up at a nominal price.

Institute has a plan to organize 5 to 8 sensitization workshops in a year to promote start up, innovation and IPR activities. The workshop includes awareness programs, success stories and overall achievements of the institution in these fields. A target of sensitization of 300 students in a year is set keeping the fund issue in mind.

Institute has also a plan for periodic holding of time bound hackathons with nominal prize and encouraging students from all institutes to participate in the same will definitely give a booster to the overall academic excellence. Problem statements for the Hackathon can be adapted from MHRD website on different real life problems based around– Smart Cities, Energy Conservation & Efficiency, Zero Carbon footprint, Pollution Curb, Resolving Water Crisis, Commuting and Communication, Supply Chain, Farming & Animal Husbandry, Handling waste & plastic, and many more.

Students to take up such real life issues as their projects and bring in fresh thoughts and actions in the perspective with the active support the faculty members. Students and scholars of academia, corporate and Institutes should create that incubation platform to help seeded ideas and projects scale up.

Different real life Industrial problems to be solved with the access of faster computing, AI-ML, volumes of data, robotics and automation, 5G enabled communication, Cloud hosting and many other and that can be taken as a guideline for the institute too.

Implementation Expert committee:

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

Prof(Dr.) Alok Kole	President, NISP
Mr.Anupam Chakraborty	External expert member
Dr.Mahuya Hom Choudhury	External expert member
Mr.Biswajit Das	External expert member
Mr.Harekrishna Pal	External expert member
Ms.Sudeshna Mondal, External expert member from Bank	External expert member

Mr.Pratik Banerjee,External Industry expert member	External expert member
Mr.Hiranmoy Roy	Innovation Activity Coordinator and Internship Activity Coordinator
Dr. Anup Kolya	Start up Activity Coordinator and Ariia Coordinator
Dr.Arpita Ghosh	Innovation Ambassador
Sougata Das	Student member
Aritra Kumar Basu	Student member
Soham Kar	Student member
Saurav Patel	Student member
Subhajit Basak	Student member
Kuntal Paul	Student member
Aniket Dey	Student member
Debdeep Banerjee	Student member
NITIN CHOURASIA	Student member
Raya Banerjee	Student member
Sourav Chakraborty	Student member
Arghya Gupta	Student member
Nilanjan Dutta	Student member
Dishari Sengupta	Student member
Bonny Sikdar	Student member
Anish Chakraborty	Student member