



GEMS Polytechnic College

Innovation and Startup policy

2023

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1. About GPC

GEMS POLYTECHNIC COLLEGE is a Chapter in GEMS that runs 110 schools, 4 ITI's, 1 Nursing School and several skill-based courses in Bihar and neighboring states. The College was established in 2015 at Aurangabad, Bihar with a noble vision to empower young minds with holistic education and futuristic skills to be a valuable resource for the state and nation. GPC has its approval by AICTE, Delhi and is affiliated to SBTE.

GPC by its experience has evolved and grown in constructing the first 3D lab among Polytechnic Colleges in India. It embellishes academically by the diligent grooming and doubtless success to reach heights, rendered by the German placement officer, bringing in the taste of the western European landscapes. With ideological principles, the training and placements have reached their prominence internationally.

1.2 The vision of GPC

Empowering the young minds with holistic education and futuristic skills to be a valuable source for the state and nation.

1.3 The Mission of GPC

- To provide a professional education thereby producing technically competent engineers with moral and ethical values.
- To train students and provide them with leading resources to address problems faced by industry and society,
- To encourage doers to embrace learning and achieve their personal best in building their emotional, social and physical well –being.

2. Preface of GPC Innovation and Start up policy

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 is being implemented by MoE's Innovation Cell and in coordination AICTE, UGC, state/ UT governments and universities.

GPC is unique and highly comprehensive in its range of polytechnic careers to qualifying professionals. It works to encourage innovation and create an impact. In order to accelerate the translation of learning into applications. GPC demonstrates its commitment to embedding equality, diversity and a practical understanding of inclusion in the work arena. It outlines guidance and resources through a congenial atmosphere for learning and a supportive environment by staff. In tune with the policy launched by our honorable minister in 2019, GPC formulated innovation and start up policy from various stake holders across various states and institutions.

2.1 Vision

To be the best resource centre in Bihar for innovation and technology to produce technically skilled human resources with social concern.

2.2 Mission

- ✓ To provide value added training in latest/industry-demand technologies to produce employable/industry-ready engineers.
- ✓ To setup industrial manufacturing units and small business to encourage the students to feel and experience engineering and to become entrepreneurs.
- ✓ To collaborate with industries providing technology, training and consultancy.

3. Thrust areas of NISP 2019

NISP mainly focuses on key thrust areas like,

- *To create innovation pipeline and pathways for entrepreneurs, to build organizational capacity, human resources and incentives, Collaboration co creation and business relationship and knowledge relationship.*
- *To regulate norms for faculty & students driven innovations and startups.*
- *To provide incentives for faculty & students for Entrepreneurship.*
- *To start incubation and pre incubation support for startups and consultancies.*
- *To have IP ownership rights for technologies developed at HEI.*
- *To have Pedagogy & learning interventions for supporting innovations & startups.*
- *Entrepreneurial performance and Impact assessment.*

4. Preface of Bihar Start-up Policy, 2022

- Bihar is progressing fast on the track of development, with unrelenting efforts being made towards strengthening infrastructure and promoting industrial growth. Government of Bihar is committed to improve competitiveness of the state's economy and achieving inclusive growth. Start-ups and Innovation play a key role in economic growth. This can be realized by promoting innovation and creating an ecosystem that nurtures start-ups from concept to commissioning. Apart from creating jobs, start-ups focus on innovation to create next gen solutions which bring economic dynamism.
- Government of Bihar formulated and notified Bihar Startup Policy, 2016 to create an independent and transparent eco system, where the State shall provide funding, promotion and policy support which was later amended as Bihar Start-up Policy 2017. The State has setup a Trust, with an initial corpus of INR 500 Cr., which acts as the nodal agency for implementation of this policy.
- In order to further boost the ecosystem and to make it more holistic and beneficial for the youth and entrepreneurs of the state, the Government has approved the Bihar Start-up Policy, 2022. This policy also aims to broad base the coverage, with an effective and faster implementation process.

4.1 Vision of the Policy

The vision for the Bihar Start-up Policy, 2022:

“To enable Bihar emerge as the most preferred destination for start-ups and entrepreneurs by leveraging the potential of local youth through a conducive Start-up ecosystem for inclusive growth in the State”


Bihar Startup Policy has been designed on following four pillars (YUVA)


- Yes to Startups (Awareness, Networking and Mentoring Campaign)
- Unleash Regulatory Enablers for Supporting Startups
- Vibrancy in Education System to encourage and facilitate Startups
- Access to financing & incubation support

4.2 Objectives

- ✓ Introduce, promote and encourage entrepreneurship education and career amongst the youth and entrepreneurs through various programs like "Udyami Bihar, Samridh Bihar Campaign", Entrepreneurship Awards, Innovation Challenges and Business Plan Competitions etc.
- ✓ Support Start-ups by seed funding as well as matching grants to increase their viability.
- ✓ Facilitate development of Entrepreneurship Development Centers and Entrepreneurship Facilitation Centers to increase awareness and promote entrepreneurship amongst the youth.
- ✓ Encourage Entrepreneurship through education by introducing learning modules in the university/schools, MOOC (Massive Open Online Courses), Internships amongst others.
- ✓ Facilitate development of new and support expansion of existing Incubators/common infrastructure spaces/Co-working Spaces.
- ✓ Provide a one stop comprehensive portal for startups to access financial support (SEBI registered- Alternate investment funds, Empanelled Angel Investor, etc.), regulatory support, Network of mentors and Empanelled Project Management Consultants.
- ✓ Enable hassle-free and time bound statutory clearances for startups.
- ✓ Provide appropriate institutional support to enable the nurturing of startups including mentoring, handholding trainings/orientation visits.
- ✓ Any other activity which will enable and create start-up ecosystem in the state.

5. Structure of NISP Planning & Monitoring Committee

	GEMS Polytechnic College	
	Innovation and Start-up policy Formulation Committee	
S. No	Name	Position
1	Mr. Ragunath A, Lecturer, EEE Dept	NISP Coordinator
2	Mr. Robin, Lecturer, EEE Dept	Internal Member
3	Mr. Vishal Nair, Co-Founder, Lightnsalt Pvt. Ltd.	External Expert Member
4	Mr. Benin Pratap, Asst Professor, Karunya University	External Expert Member
5	Mr. Jeffin Finny, Proporiter, Fin Tech, Maharastra.	External Expert Member

	GEMS Polytechnic College	
	Institution Innovation Council (in-Progress)	
Teaching/Non-teaching Members		
S. No	Name	Position
1	Mr. Ragunath A, Lecturer, EEE Dept	President
2	Mr. Robin, Lecturer, EEE Dept	Vice President & Social Media Coordinator
3	Mr. Johan Deva Raj, Lecturer, Mech Engg Dept	Convener
4	Mrs. Catharine C, Lecturer, EE Dept	NIRF Coordinator
5	Mr. Prabhunath, Lecturer, Mech Engg Dept	Innovation Activity Coordinator
6	Mr. Victor Emmanuel, Lecturer, Civil Engg Dept	Start-up Activity Coordinator
7	Mr. Bhaskar Ranjan, Lecturer, EE Dept	Internship Coordinator
8	Mr. Kumar S, Lecturer, CSE Dept	Member
9	Mr. Simon Antipas, Lecturer, EE Dept	IPR Activity Coordinator

Student Members		
S. No	Name	Position
1	Mr. Prince Kumar, 3 rd EE Dept	Internship Coordinator
2	Mr. Pratyam Prakash, 2 nd Civil Dept	Start-up Coordinator
3	Mr. Rohit Kumar, 2 nd Mech Dept	Innovation Coordinator and Member
4	Mr. Ashish Kumar Sharma, 3 rd EEE Dept	Social media Coordinator
5	Ms. Arya Nandini, 3 rd CSE Dept	Innovation coordinator
6	Mr. Saurav Kumar 3 rd Mech Dept	Member
7	Mr. Aditya Kumar, 3 rd EE Dept	IPR coordinator
External Member		
S. No	Name	Position
1	Mr. Vishal Nair, Co-Founder, Lightsalt Pvt. Ltd.	Member

6. Strategies & Implementation of GPC – ISP

6.1 Objectives

To create an innovative and startup culture among the GPC community by,

- Conducting frequent awareness and training programs on Innovation, Startup and Entrepreneurship.
- Providing required technical support, infrastructure and resources to exercise and execute their innovative ideas.

6.2 Strategies of implementation

❖ Short-term plans

- To conduct one awareness program biennial on Innovation, Startup, IPR and Entrepreneurship.
- To conduct hands-on training workshops on recent technology and tools to advance themselves with their skills with new industrial demand technologies.
- To conduct special seminars and interactive sessions from successful Entrepreneurs and Startups.

❖ Long-term plans

- To setup a Tinkering Lab to build creativity, imagination and special skills in student and staff of GPC
- To setup an Incubation center with basic facilities to support the student and staff of GPC to build their idea from concept to complete product.

6.3 Pipeline plans

- Training workshop on CCTV security system installation and maintenance.
- Hands-on training in Automation and Robotics
- Hands-on training in Internet of Things
- Training workshop on PCB Design and Fabrication
- Workshop in Android App Development
- Hands-on training in PLC Programming

7. Norms for Faculty and Students

- Students can be allowed for 10% attendance relaxation or semester break for involving startup activities with prior permission by admin committee. Report should be presented in front of the admin committee for consideration of the above.
- The institute can take 9.5% equity of startup or 20% of faculty shares, whichever is minimum.
- If faculty draw salary from institute, not more 20% office time can be spent for startup activity. Faculty should not combine research activity or other faculties with his startup activity.
- The semester break or year break or special leave consideration for the faculty involving startups can be decided by the admin committee after analyzing the proposal and request.
- If faculty or student using college resources or fund substantially for startups IPR made jointly by institute and inventor, want to start a startup based on the technology developed as above, then it can be licensed to inventor with royalty would be no more than 4% of sales price, preferably 1-2%, unless it is pure software product.

8. Regulations of GPC – ISP

- The Admin Committee or NISP members will analyze the policy performance once in a year based on the objectives.
- The report shall be placed before the Admin Committee by the President & Vice president of NISP for review and direction.
- The policy is valid for 5 years from the date of its notification or until a new policy is formulated. However, overtures in this policy could be made with the NISP members' approval without affecting the beneficiaries already covered under the policy.

9. References

1. National Innovation and Startup Policy 2019 for students and faculty, Ministry of Innovation, Ministry of Human Resource and Development, All India Council for Technical Education, September 11, 2019.
2. Bihar Startup Policy 2017 (<http://beabihar.com> › [Bihar-Startup-Policy-2017](#))
3. Bihar Startup Policy 2022 (<https://startup.bihar.gov.in/>)

10. Contact Details

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