PRAGATI ENGINEERING COLLEGE
(Autonomous)

Minutes of 10th Meeting of Academic Council (Online) held on 20th November 2021.

Item No-1: Welcome Address by Chairman, Academic Council.
Dr. K. Satyanarayana, Principal and Chairman Academic Council, Pragati Engineering College (Autonomous), Surampalem extended warm welcome to all the members of Academic Council.

Item No-2: Review of Resolutions of 9th Meeting of Academic Council held on 20.02.2021 (Online).
The members reviewed and approved the resolutions adopted in the 9th meeting of Academic council held on 20th February 2021 (Online).

Item No-3: Approval of Course Structure and Syllabi as per R20 Academic Regulations as approved by BoS of various departments upto B.Tech 2nd year,
The Course Structure and Syllabi as per R20 Academic Regulations approved by BoS of various departments upto B.Tech 2nd year are reviewed and approved.

Item No -4: Approval for adapting Institution Innovation and Start-Up Policy.
The Institution Innovation and Start-Up Policy was reviewed and approved.

Item No -5: Approval of Results.
The results of the following Regular examinations and Supplementary Examinations are reviewed and approved.

A) Regular Examinations
- a. IV B.Tech I Semester Regular Examination(R16), March 2021
- b. III B.Tech I Semester Regular Examination(R16), March 2021
- c. II B.Tech I Semester Regular Examinations (R19), March 2021
- d. M.Tech III Semester Regular Examinations (R19), March 2021
- e. IV B.Tech II Semester Regular Examination(R16), July-2021
- f. I B.Tech I Semester Regular Examinations (R20), July 2021
- g. I M.Tech I Semester Regular Examination(R19), July 2021
- h. III B.Tech II Semester Regular Examination(R16), August 2021
- i. II B.Tech II Semester Regular Examinations (R19), August 2021

B) Supplementary Examinations
- a. IV B.Tech I Semester Supplementary Examination(R16), Mar 2021
- b. III B.Tech I Semester Supplementary Examination(R16), March 2021
- c. II B.Tech I Semester Supplementary Examination(R16), March 2021
- d. IV B.Tech II Semester Supplementary Examination(R16), July-2021
- e. IV B.Tech I Semester Supplementary Examination(R16), July 2021
- f. I B.Tech II Semester Supplementary Examination(R19,R16), July 2021
- g. I B.Tech I Semester Supplementary Examinations (R19 R16), July 2021
- h. I M.Tech I Semester Supplementary Examination(R16), July-2021
- i. III B.Tech II Semester Supplementary Examination(R16, August 2021
- j. II B.Tech II Semester Supplementary Examinations (R19), August 2021
- k. III B.Tech I Semester Supplementary Examination(R16), September 2021
- l. II B.Tech I Semester Supplementary Examinations (R19,R16), September 2021
- m. IV B.Tech II Semester Supplementary Examination(R16), October-2021

Item No -6:Approval of eligible candidates for the award of degree.

The members Reviewed and approved for the award of Provisional Certificate to

a. 862 students of B.Tech Degree from 2017-21 batch and 8 students of M.Tech Degree from 2018-20 batch.

b. 52 additional students of B.Tech degree from 2016-20 batch (during the period Jan 2021- July 2021).

Item No -7:Report regarding various Institutional / departmental activities.

The members reviewed the following Institutional / departmental activities from February 2021 to October 2021.

a. Training and Placement Activities

b. R & D Activities

c. Departmental Activities

Item No -8:Any other item.

Under any other item no issues were discussed.

Item No -9:Vote of thanks by Member Secretary.

Sri S.Vamsi Kiran, Member Secretary, Academic Council proposed vote of thanks.

The members congratulated the team Pragati for achieving prestigious NBA Accreditation for five Under Graduate Programmes and services rendered during COVID Pandemic. The members expressed that good progress is shown in Placements and Research Activities. The members also welcomed the initiative for adapting Institution Innovation and Start-Up Policy.

The following suggestions were given by the members.

1. To focus more on domain concepts rather than technologies, while designing syllabi for CSE and IT courses.

2. To find out the root cause for low pass percentage in core branches and analysis of the same to be done along with remedial measures implemented/to be implemented.

3. To give handouts wherever necessary to students so that they can prepare the difficult subjects, well. To Check the Attentiveness of students (in online mode) and deliver class accordingly.

4. To look into the possibility of establishment of FAB Lab (Fabrication Lab) for students.

5. While presenting the course structure of CSE and allied branches, its better to show the common courses and courses specific to the concerned branch of study, for easy understanding.

6. To create and build entrepreneurial culture among students.

R. Srinivasa

N. Mohan

Badam Sundar

PRINCIPAL
PRAGATI ENGINEERING COLLEGE
(AUTONOMOUS)
 # 1-378, ADB ROAD, SURAMPALEM
Near Peddapuram, E.G.Dt. (AP)–533437

PRAGATI ENGINEERING COLLEGE

(An Autonomous Institution)

1-378, ADB Road, Surampalem – 533 437, Near Peddapuram, E G Dist, A P
(Permanently Affiliated to JNTUK, Kakinada and Accredited by NAAC with 'A' Grade)
Recognized by UGC 2(f) and 12(b) under UGC act, 1956,Ph (08852) 252233, 252234, Fax 252232

INSTITUTION'S
INNOVATION
COUNCIL

INNOVATION AND
START- UP
POLICY

FOR "STUDENTS AND FACULTY MEMBERS"

(Under the guidelines of National Innovation and Start-Up Policy-2019)

ABSTRACT:

PEC INNOVATION and STARTUP Policy for Students and Faculty Members

The PEC Innovation and Startup Policy for Students and Faculty Members will enable the institute to actively engage students, faculty members and members of staff in innovation and entrepreneurship related activities. This framework will also facilitate in bringing clarity in Startup policy, involvement of stakeholders, support and performance parameters thus enabling creation of a robust innovation and startup ecosystem in the institute. This document states Startups Enabling Institutional Infrastructure, and practices for nurturing innovations and startups. It also elaborates Innovation Pipeline and Pathways for Entrepreneurs at Institute Level, Pedagogy and Learning Interventions for Entrepreneurship Development Collaboration. Institute participation in co-creation, issue of Entrepreneurial Impact Assessment is also addressed in this policy along with the mention of motivating the students to opt entrepreneurship as a career option.

Contents:

National Innovation and Start-Up Policy (NISP)

About NISP:

NISP 2019 was launched by Hon'ble Minister of HRD on September, 11, 2019. The National Innovation and Startup Policy 2019 for students and faculty of Higher Education Institutions (HEIs) will enable the institutes to actively engage students, faculty and staff in innovation and entrepreneurship related activities. This framework will also facilitate Ministry of Human Resource Development 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 startup ecosystem across all HEIs.

The 'National Student and Faculty Startup Policy 2019' is a guiding framework to envision an educational system oriented towards startups and entrepreneurship opportunities for student and faculty.

The objectives of this policy are as follows:

- To guide HEIs to promote and motivate students for Innovation & Entrepreneurship
- To create Innovation Pipeline and Pathways for Entrepreneurs
- To Incentivize Faculty & Students for Entrepreneurship
- To provide Incubation & Pre-Incubation Support
- To collaborate and Co-create the Business Relationship and Knowledge Exchange

The main features of this policy are as follows:

- Creation of 'Innovation fund' for supporting innovative projects and Startups by allocating minimum 1% of the institution's total budget.
- Academic break for a semester/ year to work on their startups credits for working on innovative prototype/ business models.
- 2% – 9.5% Equity/ stake in startup/ company by Institute's incubator.
- Complete Ownership of IPR by the inventors in case of non-usage of institute's facilities resources.
- Services to be offered by institution in lieu of equity, fee based or zero payment model.

Committee Members:

Sl.No.	Name	Position
1.	Dr.S.Sambhu Prasad	President
2.	Dr Subodh Panda	Convener
3.	Mr.S.Vamsi Kiran	Coordinator
4.	Dr.R.Dharmalingam	Innovation Ambassador
5.	Shri M.Srinivas	Industrialist
6.	Mr.Sesha Sai	Alumnus/Start-up
7.	Mr.Hemanth Vamsi Krishna	Entrepreneur/Alumni
8.	Mr.A.Ravi Teja	Member
9.	Mr.T.Prasanth Jaya Kumar	Member
10.	Mr.Satya Mohan	Member
11.	Mr.B.Rajesh	Member
12.	Mr.K.Chandra Sekhar	Member

Policy solution on Thrust Area

Sl.No.	Plan
1.	Strategies & Governance for Promoting Innovation & Entrepreneurship
2.	Creating Innovation Pipeline and Pathways for Entrepreneurs
3.	Building Organizational Capacity, Human Resources and Incentives
4.	Collaboration, Business Relationship and Knowledge Exchange
5.	Norms for Faculty & Students Driven Innovations and Start-ups
6.	Incentivizing Faculty & Students for Entrepreneurship
7.	Norms for Faculty Start-up
8.	Incubation & Pre-Incubation support
9.	IP ownership Rights for Technologies Developed at Pragati Engineering College
10.	Pedagogy & Learning Interventions for Supporting Innovations & Start-ups
11.	Entrepreneurial Performance Impact Assessment

1. **Strategies and Governance:**

A separate Innovation and Entrepreneurship Policy (IEC Policy) has been framed to support this vertical. This initiative has created a p a t h w a y towards development of culture among students and faculty to adopt entrepreneurship as one of the career options.
Following steps have been taken to implement IIC/NISP policy.

A dedicated Innovation and Entrepreneurship Council with defined specific objectives and associated performance indicators for assessment, has been established to facilitate development of an entrepreneurial ecosystem in the organization.

Minimum 1% fund of the total annual budget of the institution is being allocated for funding and supporting innovation and startups related activities through creation of separate 'Innovation fund.' Encouragement shall be given for raising funds from diverse sources to reduce dependency on the public funding. Bringing in external funding through government (state and central) such as DST, DBT, MHRD, AICTE, TDB, TIFAC, DSIR, CSIR, BIRAC, NSTEDB, NRDC, Startup India, Invest India, MeitY, MSDE, MSME, startup in UP as well as non-government sources will also be encouraged.

To support innovation and entrepreneurship promoting activities, it will be highly encouraged and appreciated to approach private and corporate sectors to generate funds, under Corporate Social Responsibility (CSR) as per Section 135 of the Company Act 2013.

Fund raising through sponsorships and donations engaging alumni network for promoting Innovation & Entrepreneurship shall be encouraged.

Entrepreneurship Center under IIC/NISP will organize institutional programs such as conferences, convocations, workshops etc. to spread the awareness regarding the importance of innovation and entrepreneurial agenda across the institute.

Product to market strategy for startups which is a part of IIC/NISPC policy document will be finalized on micro level on case-to-case basis.

2. Startups Enabling Institutional Infrastructure:

Institute has already developed institutional infrastructure to enable startups and its progression. Thus, creation of pre-incubation and incubation facilities for nurturing innovations and startups has already taken place and IIC policy document reflects the roadmap for I N N O V A T I O N to ENTERPRISE to FINANCIAL SUCCESS.

The list of all the pre-incubation units in the campus i.e. hobby clubs and students' clubs working on various technologies, E-cell, advanced labs and design centers, centers of excellence and innovation center has been disseminated. A functional IIC is managing all the activities regarding innovation, entrepreneurship and startup related activities within the institute.

3. Nurturing Innovations and Start ups:

With the help of resources available at PEC, IIC-PEC facilitates aspirants 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.

Institute will facilitate the startup activities/ technology development by allowing students/faculty/ staff to use institute infrastructure and facilities, as per the choice of the potential entrepreneur in the following manners:

   i.   Mentorship support on regular basis.

   ii.   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.

iii. Institute may also link the startups to the seed-fund provider/angel funds/venture funds or itself may set up seed-fund once the incubation activities mature.

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

Institute could extend this startup facility to alumni of the institute as well as outsiders.

Participation in startup related activities needs to be considered as a legitimate activity of faculty in addition to teaching, R&D projects, industrial consultancy and management duties and must be considered while evaluating the annual performance of the faculty. Each faculty may be encouraged to mentor at least one startup.

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.

iv. 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.

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.

5. Pedagogy and Learning Interventions for Entrepreneurship Development:

A dedicated innovation center is responsible to co-ordinate all student clubs, whereas individual departments are responsible for running technical hobby clubs, project workshops/labs. Entrepreneurship Center is responsible for organizing competitions, boot- camps, workshops, awards, etc.

As a part of awareness program about entrepreneurial ecosystem present in the institute, introductory sessions will be organized for all the students of all the programs of Institutions.

To promote student ideas, projects and innovations based on real life challenges, boot-camps, visits to rural and underprivileged areas in nearby region and also hackathons will be organized on regular basis. These activities and other IIC calendar activities will be displayed in the institute's activity calendar.

Institute should start annual 'INNOVATION & ENTREPRENEURSHIP AWARD' to recognize outstanding ideas, successful enterprises and contributors for promoting innovation and enterprise ecosystem within the institute.

6. Entrepreneurial Impact Assessment:

The various parameters to be considered for Entrepreneurial Impact Assessment are

a. Satisfaction of the participants in program, workshops and training programs
b. Participation in awareness programs
c. Utilization of pre-incubation facilities by students
d. Number of curriculum projects addressing real life problems
e. Participation in various idea, Prototype, b-plan competitions and hackathons
f. Participation in pitching for fund raising and grants/support from government and non-government agencies
g. Contribution in industrial projects and consultancy projects
h. Product development and its launching in the market
i. IPR application filing, grant and commercialization
j. The IIC/NISP team in chairmanship of Principal (President-IIC) will be responsible for assigning appropriate Weightage to the above parameters depending on the maturity of the process..

7. Review of the Policy:

Considering the feedback from assessment team which is the reflection of impact of the existing policy, IIC –PEC shall organize the review committee meeting and finalize the recommendations of the review committee. This policy is prepared by NISP committee under the supervision of president- NISP.

Dr.Sambhu Prasad.
NISP- President
DIRECTOR
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Principal
PRINCIPAL
Pragati Engineering College
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(AUTONOMOUS)   11
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