

S.P.B. PATEL ENGINEERING COLLEGE

STRATEGIC PLANNING (2021-2022)

- **Department of Computer Engineering**
- **Department of Information & Technology**
- **Department of Mechanical Engineering**
- **Department of Civil Engineering**

Preamble: All activities should be student-centric and fulfil the Mission and Vision of the Institute

Thrust Areas

1. Updation of Degree Programmes in line with latest technological developments
2. Implementations of academic reforms
3. Faculty Development
4. Technical / Supporting Staff Development
5. Enhancement of Industry Institute Interactions
6. Enhancement of Employability of graduates
7. Enhancement of Research Activity
8. Student Support and Progress

The elaborate and specific objectives under various thrust areas are as follows.

1. Updation of Degree Programmes in line with latest technological developments

- 1.1. Offering elective courses about latest technology
- 1.2. Fabrication Projects and Interdisciplinary Projects
- 1.3. Innovation in teaching-learning
- 1.4. Development and Updation of Learning Materials
- 1.5. Designing experiments which can provide more experimental knowledge

2. Implementation of academic reforms through

- 2.1. Need-based curriculum revision

3. Faculty Development

- 3.1. Upgradation of educational qualifications
- 3.2. Need-based industrial professional training
- 3.3. Deputing faculty to present paper in conference /attending poster presentation.
- 3.4. Conducting workshops, seminars, STTPs
- 3.5. Publication of papers in reputed national/ international journals.

4. Technical / Supporting Staff Development

- 4.1. Soft Skill Training / Industrial Training / Equipment Operation / Maintenance Training / Administrative Training / Computer Training

5. Enhancement of Industry Institute Interactions.

- 5.1 Enhancement of students' exposure to the industrial environment through. Industrial Visits, Industrial Training, Expert Lectures and Industrial based projects

6 Co-curricular and Extra-curricular activities for students:

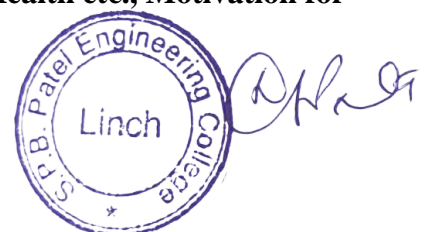
- 6.1 Overall development of students through organizing various activities

7 Enhancement of Research Activity

8 Student Support and Progress

8.1 Overall development of students through Communication skill development supplementary courses and Career Orientation, Yoga & Health etc., Motivation for conducting national level symposium

8.2 Academic support for academically weak students



ACTION PLAN

1. Updation of Degree Programmes in line with latest technological developments

1.1 Offering of elective courses with new teaching scheme (including LPW) during 2021-22

Sr. No.	Activity	Who will do	JULY 2021- JUN 2022													
			June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June	
1.1.1	Offering of the electives to students	Faculty Coordinator														

1.2 Student Projects (Interdisciplinary)

Indicator of success: - Completion of project work:

Sr. No.	Activity	Who will do	JULY 2021- JUN 2022													
			June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June	Jul
1.2.1	Identification of Projects															
1.2.2	Short listing the proposed projects	HOD & Project co-ordinators														
1.2.3	Allotment of projects and Guides to students	HOD & Project Coordinators														
1.2.4	Completion of Project	Project Guides														
1.1.5	Review of Projects	Project Coordinator & Reviewers														

1.3 Innovation in Teaching Learning

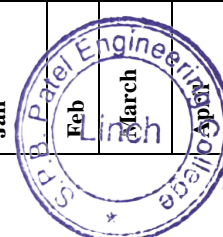
Indicator of success:- Organization of In-house workshops for students to arrive innovations in Teaching Learning Process

Sr. No.	Activity	Who will do	JULY 2021- JUN 2022													
			June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June	July
1.3.1	Organization of various inhouse workshop to brainstorm various innovative methods in Teaching Learning	All Faculty members	_____ Throughout the year _____													
1.3.2	Identification of subjects in which workshops are to be conducted	HOD & Coordinator	Throughout the year													
1.3.3	Identification of participating students	HOD & Coordinator	Throughout the year													

1.4 Development and Updation of Learning Materials

Indicator of success: - Provision of all learning materials before starting of term of every semester.

Sr. No.	Activity	Who will do	JUNE 2021- JULY 2022													
			June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June	July



1.4.1	Preparation of PPTs, Handouts, Charts, Lesson Plan, Lab Manual, Lecture Notes, Assignments, Mini Projects, Surveys, Case Studies etc. with minimum 20% updation (course file)	Concerned Faculty members, Course Coordinators under guidance of H.O.D.																
1.4.2	Uploading the course file on Google Apps	Course Coordinator																

1.5 Designing of experiments which can provide more experimental knowledge

Indicator of success: -

1. Addition of minimum 3 experiments in different subjects.

Sr. No.	Activity	Who will do	JUNE 2021- JULY 2022															
			June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June	July		
1.5.1	Identification of subjects in which more experiments can be added/ updated	Concerned Faculty members, Course Coordinators																
1.5.2	Performance and demonstration to dept and addition in lab exercise	Course Coordinator																

ACTION PLAN

2 Implementation of academic reforms

2.1 Need based curriculum revision

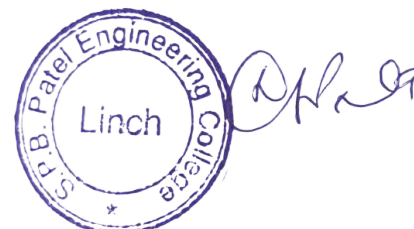
Indicator of success:- Completion of Modification of Curriculum based on feedback from stakeholders.

Sr. No.	Activity	Who will do	JUNE 2021- JULY 2022															
			June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June	July		
2.1.1	Feedback of Industry personnel, Alumni and Academic peers on the curriculum	Feedback & Alumni Coordinators																
2.1.2.	Proposed Modification based on feedback to be made in the curriculum at dept. level	HOD, Section Heads & Course Coordinators																

ACTION PLAN

3 Faculty Development:

3.1 Upgradation of educational qualifications



Indicator of success:- Deputing 2 faculty member for pursuing Ph.D as planned

Sr. No.	Activity	Who will do	JUNE 2021- JULY 2022											
			June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May
3.1.1	pursuing Ph. D	Concerned faculty	Through out the year											

3.2 Need based Industrial, Professional Training

Indicator of success:- Deputing minimum 02 faculty members to attend industrial, professional training.

Sr. No.	Activity	Who will do	JUNE 2021- JULY 2022														
			June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June	July	
3.2.1	Need Assessment of faculty members	Training Coordinators															
3.2.2.	Identification of industries, software training and contacting	Training Coordinators															
3.2.3	Deputing faculty members	HOD & Training Coordinators															

3.3 Deputing faculty members for presenting papers in Conferences / Attending Workshops / Seminars

Indicator of success:- Deputing faculty members for presenting papers in Conferences / Attending Workshops / Seminars per year

Sr. No.	Activity	Who will do	JUNE 2021- JULY 2022														
			June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June	July	
3.3.1	Invitation of information from faculty members	Faculty Members															
3.3.2.	Deputing faculty members	HOD															

3.4 Conducting Workshops, Seminars and STTPs.

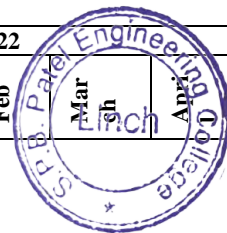
Indicator of success:- Conducting minimum two CEPs/ STTPs.

Sr. No.	Activity	Who will do	JUNE 2021- JULY 2022														
			June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June	July	
3.4.1.	Inviting the topic for Wokshops / Seminars / STTPs	Faculty members and co-ordinators															
3.4.2	Application to funding agencies	Faculty members and co-ordinators															
3.4.3	Conducting the same	Faculty members and co-ordinators															

3.5 Publication of Papers in reputed International Journals

Indicator of Success: Publication of Min. 01 papers by faculty members in reputed National/ International Journals

Sr. No.	Activity	Who will do	JUNE 2021- JULY 2022														
			June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June	July	



3.5.1.	Motivation to faculty members through training on inculcating research	Faculty members	_____ Throughout the year _____
3.5.2.	Identification of faculty members who are willing to publish the papers	Faculty members	_____ Throughout the year _____
3.5.3	Identification of Journals	Faculty members	Throughout the year
3.5..4.	Publication by the Faculty members	Faculty members	Throughout the year

ACTION PLAN

4 Technical / Supporting Staff Development

4.1. Soft Skill Training / Industrial Training / Equipment Operation / Maintenance Training / Administrative Training / Computer Training

Indicator of Success (minimum): staff member trained in administrative programme/industrial training programme/Soft skills training programme.

Sr. No.	Activity	Who will do	JUNE 2021- JULY 2022													
			June	July	Aug	Sept.	Oct	Nov	Dec	Jan	Feb	march	April	May	June	July
4.1.1	Identification of need of staff members	Identified Coordinator														
4.1.2	Identification of Training Programmes	Identified Coordinator														
4.1.3	Deputation / Conducting programme	HOD														

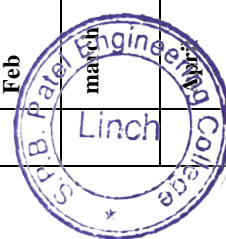
ACTION PLAN

5 Enhancement of Industry Institute Interactions.

5.1 Enhancement of students exposure to industrial environment through. Industrial Visits, Industrial Training, Expert Lectures and Industrial based projects.

Indicator of Success: Minimum i) 4 need based Industrial Visits per year. ii) 20 industries for industrial trg. each year iii) 4 expert lectures to be organized each year

Sr. No.	Activity	Who will do	JUNE 2021- JULY 2022													
			June	July	Aug	Sept.	Oct	Nov	Dec	Jan	Feb	march	April	May	June	July
5.1.1	Identification of industries	co-ordinators														



	and experts from industries															
5.1.2	Visits to Industries	Class co-ordinators														
5.1.3	Allotment industry to students and undergoing of industrial training by students	co-ordinators														
5.1.4	Organizing Expert Lectures	All Faculty members,														

ACTION PLAN

6 Co-curricular and Extra-curricular activities for students:

6.1 Overall development of students through organizing various activities

Indicator of Success: Organizing min. 4 activities for various skill developments such as leadership, time management, concept development, communication skills etc.

Sr. No.	Activity	Who will do	JUNE 2021- JULY 2022													
			June	July	Aug	Sept.	Oct	Nov	Dec	Jan	Feb	march	April	May	June	July
6.1.1	Determination of skills required by the students	Counsellors														
6.1.2	Determination of activities to be organized for skill development	All Faculty members, SIDS														
6.1.3	Organizing the activities.	All Faculty members, SIDS														

ACTION PLAN

7. Enhancement of Research Activity:

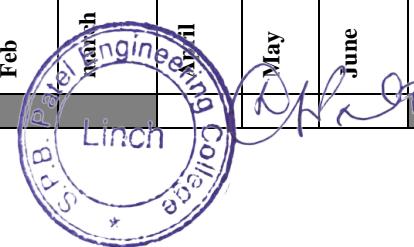
Sr. No.	Activity	Who will do	JUNE 2021- JULY 2022													
			June	July	Aug	Sept.	Oct	Nov	Dec	Jan	Feb	march	April	May	June	July
7.1.1	Minor research Project															
7.2.2	Review papers		Through out the year													

ACTION PLAN

8 Student support and Progress

8.1 Overall development of students through Communication skill development supplementary courses and Career Orientation, Yoga & Health etc., Motivation

Sr. No.	Activity	Who will do	JUNE 2021- JULY 2022													
			June	July	Aug	Sept.	Oct	Nov	Dec	Jan	Feb	march	April	May	June	July
8.1.1	Career	HOD														



	Orientation														
8.1.2	Communication skill development etc	HOD and Faculty Members													

8.2 Academic support for academically weak students

Sr. No.	Activity	Who will do	JUNE 2021- JULY 2022													
			June	July	Aug	Sept.	Oct	Nov	Dec	Jan	Feb	march	April	May	June	July
8.2.1	Identification of students i. appearing in SEE ii. having poor performance MSE/RE mId/TA	Exam Coordinator Course Coordinator														
8.2.2	Counselling	Counsellor														
8.2.3	Arranging remedial classes	Course Coordinator, Class co-ordinator														
8.2.4	Review of performance of weak students	Class co-ordinator														

