

STRATEGIC PLAN

Department of Mechanical Engineering

[5 Year Plan: 2022-2026]

OBJECTIVES:

The purpose of this document is to establish the **roadmap for next 5 years** to plan how we wish to see our Institution in the future. This plan is **based on the vision and mission** established and also the additional focus suggested by the management keeping focus on National Educational Policy-NEP-2020. Mission statements are the **basic perspectives** driving the newer strategies established in this report. This report will serve as baseline for **budgeting** and also to establish the Institutional level **ANNUAL performance appraisal**.

INSTITUTIONAL VISION AND MISSION:

VISION:

To develop **competent** professionals with **human values**.

MISSION:

- M1.** To have **contextually relevant** Curricula.
- M2.** To promote **effective Teaching Learning** Practices supported by **Modern Educational Tools and Techniques**.
- M3.** To enhance **Research Culture**.
- M4.** To involve the **Industrial Expertise** for connecting Classroom contents to real-life situations.
- M5.** To inculcate **Ethics and soft-skills** leading to overall personality development.

ADDITIONAL FOCUS:

F1: Academic results- **M1, M2, M4**

F2: Curriculum relevance- **M1**

F3: Value additions: Teaching, Soft skills, Use of ICT / Presentation, Discussion Groups
(Communication skills)- **M2 & M5**

F4: Community oriented services- **M3 & M5**

F5: Additional Academic perspectives: Research papers, Sponsored Projects, Root cause analysis for rejected papers and filling gap.- **M3**

F6: Accreditation and Ranking: NBA, NAAC and NIRF - **M1 to M5 & Establishment of strong IQAC to support quality checks and Institutional repository.**

F7: National Educational Policy- NEP-2020 – **M1 to M5.(Experiential Learning)**

PLANNING INCREMENTS:

1st year to 5th year, i.e. **2022** to **2026**; year commencing from 1st of January and ending by 31st December.

CONTACT DETAILS:

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Focus	Perspective	STRATEGIC PLAN				
		2022	2023	2024	2025	2026
Curriculum Relevance	Re-establishing the relevance of critical thinking in Course outcomes and raising levels focusing on Experiential learning of NEP	Activities: <ul style="list-style-type: none"> • Conduct dept. meeting to discuss on the revision of course outcomes to incorporate higher order thinking skills as required by NEP. • Revise mapping levels of COs with POs. • Convene DUGC and BOS meetings for approval. 	Activities: <ul style="list-style-type: none"> • Conduct dept. meeting to discuss on the revision of course outcomes to incorporate higher order thinking skills as required by NEP. • Revise mapping of COs with POs. • Convene DUGC and BOS meetings for approval. 	Activities: <ul style="list-style-type: none"> • Conduct dept. meeting to discuss on the revision of course outcomes to incorporate higher order thinking skills as required by NEP. • Revise mapping of COs with POs. • Convene DUGC and BOS meetings for approval. 	Activities: <ul style="list-style-type: none"> • Conduct dept. meeting to discuss on the revision of course outcomes to incorporate higher order thinking skills as required by NEP. • Revise mapping of COs with POs. • Convene DUGC and BOS meetings for approval. 	Activities: <ul style="list-style-type: none"> • Conduct dept. meeting to discuss on the revision of course outcomes to incorporate higher order thinking skills as required by NEP. • Revise mapping of COs with POs. • Convene DUGC and BOS meetings for approval.
	Re-establishing the relevance of Program Articulation Matrix	Activities: <ul style="list-style-type: none"> • Revision of mapping of COs with POs • Analysis of PAM for better addressing of all POs. • Action plan based on attainment of POs will implemented. • Convene DUGC 	Activities: <ul style="list-style-type: none"> • Revision of mapping of COs with POs • Analysis of PAM for better addressing of all POs. • Action plan based on attainment of POs will implemented. • Convene DUGC 	Activities: <ul style="list-style-type: none"> • Revision of mapping of COs with POs • Analysis of PAM for better addressing of all POs. • Action plan based on attainment of POs will implemented. • Convene DUGC 	Activities: <ul style="list-style-type: none"> • Revision of mapping of COs with POs • Analysis of PAM for better addressing of all POs. • Action plan based on attainment of POs will implemented. • Convene 	Activities: <ul style="list-style-type: none"> • Revision of mapping of COs with POs • Analysis of PAM for better addressing of all POs. • Action plan based on attainment of POs will implemented. • Convene

		and BOS meetings for approval.	and BOS meetings for approval.	and BOS meetings for approval.	DUGC and BOS meetings for approval.	DUGC and BOS meetings for approval.
	Conducting internal and External Audits	Internal audit: 02 External audit:01	Internal audit: 02 External audit:01	Internal audit: 02 External audit:01	Internal audit: 02 External audit:01	Internal audit: 02 External audit:01

Focus	Perspective	2022	2023	2024	2025	2026
Exam Results	Bridge Courses	Extra classes for lateral entry students will be taken to make up the syllabus	Extra classes for lateral entry students will be taken to make up the syllabus	Extra classes for lateral entry students will be taken to make up the syllabus	Extra classes for lateral entry students will be taken to make up the syllabus	Extra classes for lateral entry students will be taken to make up the syllabus
	Tutorials for complex courses	Tutorials for analytical subjects will be handled and will be shown in the timetable	Tutorials for additional analytical subjects will be identified. Tutorials will be conducted and will be shown in the timetable	Tutorials for additional analytical subjects will be identified. Tutorials will be conducted and will be shown in the timetable	Tutorials for additional analytical subjects will be identified. Tutorials will be conducted and will be shown in the timetable	Tutorials for additional analytical subjects will be identified. Tutorials will be conducted and will be shown in the timetable
	Strengthening Experiential Learning component	Performance enhancing measures (PEM) incorporating experiential learning for all courses handled during the semester will be implemented. Minimum one PEM for each subject will be implemented.	Performance enhancing measures (PEM) incorporating experiential learning for all courses handled during the semester will be implemented. Minimum one PEM for each subject will be implemented.	Performance enhancing measures (PEM) incorporating experiential learning for all courses handled during the semester will be implemented. Minimum one PEM for each subject will be implemented.	Performance enhancing measures (PEM) incorporating experiential learning for all courses handled during the semester will be implemented. Minimum one PEM for each subject will be implemented.	Performance enhancing measures (PEM) incorporating experiential learning for all courses handled during the semester will be implemented. Minimum one PEM for each subject will be implemented.
	Industry Connectivity for Class room	• Industry relevant elective subjects will be	• Industry relevant elective subjects will be incorporated in	• Industry relevant elective subjects will be	• Industry relevant elective subjects will be	• Industry relevant elective subjects will be

		incorporated in the curriculum. <ul style="list-style-type: none"> • Inviting industrial experts for guest lectures for industrial connectivity • Industry based projects will be offered to the students • Organizing industrial tours two per academic year. 	the curriculum. <ul style="list-style-type: none"> • Inviting industrial experts for guest lectures for industrial connectivity • Industry based projects will be offered to the students • Organizing industrial tours two per academic year. 	incorporated in the curriculum. <ul style="list-style-type: none"> • Inviting industrial experts for guest lectures for industrial connectivity • Industry based projects will be offered to the students • Organizing industrial tours two per academic year. 	incorporated in the curriculum. <ul style="list-style-type: none"> • Inviting industrial experts for guest lectures for industrial connectivity • Industry based projects will be offered to the students • Organizing industrial tours two per academic year. 	incorporated in the curriculum. <ul style="list-style-type: none"> • Inviting industrial experts for guest lectures for industrial connectivity • Industry based projects will be offered to the students • Organizing industrial tours two per academic year.
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Focus	Perspective	2022	2023	2024	2025	2026
Research	IPR: Copyrights and Patents	Faculty will be encouraged to take up IPR and Patent activities at least one per year	Faculty will be encouraged to take up IPR and Patent activities at least one per year	Faculty will be encouraged to take up IPR and Patent activities at least one per year	Faculty will be encouraged to take up IPR and Patent activities at least one per year	Faculty will be encouraged to take up IPR and Patent activities at least one per year
	Paper Publications	Paper publication in reputed peer reviewed journals and conferences : 10 papers	Paper publication in reputed peer reviewed journals and conferences : 10 papers	Paper publication in reputed peer reviewed journals and conferences : 10 papers	Paper publication in reputed peer reviewed journals and conferences : 10 papers	Paper publication in reputed peer reviewed journals and conferences : 10 papers
	Funded Projects	Total number of funded projects to be applied per year: 03	Total number of funded projects to be applied per	Total number of funded projects to be applied per year:	Total number of funded projects to be applied per	Total number of funded projects to be

			year: 03	03	year: 04	applied per year: 04
	Analysis on project proposals for its quality and relevance	A dept. committee including an external expert will be formed for evaluation of project quality and its relevance.	A dept. committee including an external expert will be formed for evaluation of project quality and its relevance.	A dept. committee including an external expert will be formed for evaluation of project quality and its relevance.	A dept. committee including an external expert will be formed for evaluation of project quality and its relevance.	A dept. committee including an external expert will be formed for evaluation of project quality and its relevance.

Focus	Perspective	2022	2023	2024	2025	2026
Value additions	Learning for Placement	Value added training programs facilitated by CIII: .Two programs	Value added training programs facilitated by CIII: .Two programs	Value added training programs facilitated by CIII: .Two programs	Value added training programs facilitated by CIII: .Two programs	Value added training programs facilitated by CIII: .Two programs
	Soft Skills	Soft skill training program will be conducted by CIII centrally.: one programme	Soft skill training program will be conducted by CIII centrally. one programme	Soft skill training program will be conducted by CIII centrally. one programme	Soft skill training program will be conducted by CIII centrally. one programme	Soft skill training program will be conducted by CIII centrally. one programme
	Discussion Group	One group discussion activity will be conducted by the department placement coordinators in consultation with TAPS. one programme	One group discussion activity will be conducted by the department placement coordinators in consultation with TAPS. one	One group discussion activity will be conducted by the department placement coordinators in consultation with	One group discussion activity will be conducted by the department placement coordinators in	One group discussion activity will be conducted by the department placement coordinators in

			programme	TAPS. one programme	consultation with TAPS. one programme	consultation with TAPS. one programme
	English Communication Skills	English communication skill training program will be taken up centrally. one programme	English communication skill training program will be taken up centrally. one programme	English communication skill training program will be taken up centrally. one programme	English communication skill training program will be taken up centrally. one programme	English communication skill training program will be taken up centrally. one programme
	Use of ICT	Faculty and students are encouraged to use ICT tools for better teaching learning process. One e-conference per year and Two online quizzes	Faculty and students are encouraged to use ICT tools for better teaching learning process. One e-conference per year and Two online quizzes	Faculty and students are encouraged to use ICT tools for better teaching learning process. One e-conference per year and Two online quizzes	Faculty and students are encouraged to use ICT tools for better teaching learning process. One e-conference per year and Two online quizzes	Faculty and students are encouraged to use ICT tools for better teaching learning process. One e-conference per year and Two online quizzes

Focus	Perspective	2022	2023	2024	2025	2026
Accreditation and Ranking	NBA	Extension for continuation of accreditation will be applied.	Extension for continuation of accreditation will be applied.	Extension for continuation of accreditation will be applied.	Application for next cycle of accreditation will be filed.	Application for next cycle of accreditation will be filed.
	NAAC	Departmental	Departmental	Departmental	Departmental	Departmental

		preparations for NAAC accreditation will be done as per institutional guidelines.	preparations for NAAC accreditation will be done as per institutional guidelines.	preparations for NAAC accreditation will be done as per institutional guidelines.	preparations for NAAC accreditation will be done as per institutional guidelines.	preparations for NAAC accreditation will be done as per institutional guidelines.
	NIRF ranking	Departmental preparations for better NIRF ranking will be done as per institutional guidelines	Departmental preparations for better NIRF ranking will be done as per institutional guidelines	Departmental preparations for better NIRF ranking will be done as per institutional guidelines	Departmental preparations for better NIRF ranking will be done as per institutional guidelines	Departmental preparations for better NIRF ranking will be done as per institutional guidelines

Focus	Perspective	2022	2023	2024	2025	2026
Community Oriented Services	Awareness Program	Two activities per year is planned.	Two activities per year is planned.	Two activities per year is planned.	Two activities per year is planned.	Two activities per year is planned.
	Learning Programs	Two activities per year is planned.	Two activities per year is planned.	Two activities per year is planned.	Two activities per year is planned.	Two activities per year is planned.
	Technology Transfer Programs	One technology transfer program is planned per year.	One technology transfer program is planned per year.	One technology transfer program is planned per year.	One technology transfer program is planned per year.	One technology transfer program is planned per year.