SDM College of Engineering and Technology, Dhavalagiri, Dharwad-580002

Department of Physics STRATEGIC PLAN

[5 Year Plan: 2022-23 to 2026-27]

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.

Quality Policy: Committed to move towards a sustainable growth

Long term goals: Offering minor or major Projects to UG and PG students.

Short term goals:

- 1. Curriculum up gradation as per current engineering requirement.
- 2. Quality research publications.

SWOC Analysis:

Strength:

- 1. 75% of the faculties are Ph.D. holders with average teaching experience of more than 18 years.
 - 2. Team work

Weakness:

1. Not succeeded in receiving research funding.

Opportunities:

1. Curriculum upgradation with respect to current engineering requirement

Challenges:

1. Change in education policies

PLANNING INCREMENTS:

1st year to 5th year, i.e. **2022-23** to **2026-27**; year commencing from 1st of January 2022 to 30th June 2027.

CONTACT DETAILS:

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Focus	Perspective/	PLANNING [3]				
[1]	Key Areas	2022-23	2023-24	2024-25	2025-26	2026-27
	Re- establishing the relevance of critical thinking in Course outcomes and raising levels focusing on Experiential learning of NEP	Activity-1: BOS Meet. Outcome/Target: 1.To revise and reframe the syllabus to fulfill OBE. Budget: 0.05 Lakh	Activity-1: BOS Meet. Outcome/Target: 1. To revise and reframe the syllabus to fulfill OBE. Budget: 0.05 Lakh	Activity-1: BOS Meet. Outcome/Target: 1. To revise and reframe the syllabus to fulfill OBE. Budget: 0.05 Lakh	Activity-1: BOS Meet. Outcome/Target: 1. To revise and reframe the syllabus to fulfill OBE. Budget: 0.1 Lakh	Activity-1: BOS Meet. Outcome/Target: 1. To revise and reframe the syllabus to fulfill OBE. Budget: 0.1 Lakh
F1 / M1 Curriculu m Relevance	Re- establishing the relevance of Program Articulation Matrix	Activity-1: DUGC Meeting Outcome/Target: 1. To conduct review meeting on the relevance of Program Articulation Matrix. Budget: NIL	Activity-1: DUGC Meeting Outcome/Target: 1. To conduct review meeting on the relevance of Program Articulation Matrix. Budget: NIL	Activity-1: DUGC Meeting Outcome/Target: 1. To conduct review meeting on the relevance of Program Articulation Matrix. Budget: NIL	Activity-1: DUGC Meeting Outcome/Target: 1. To conduct review meeting on the relevance of Program Articulation Matrix. Budget: NIL	Activity-1: DUGC Meeting Outcome/Target: 1. To conduct review meeting on the relevance of Program Articulation Matrix. Budget: NIL
	Conducting internal and External Audits	Activity-1: Annual Academic audit Outcome/Target: 1. Internal Annual academic audit by IQAC 2. External annual academic audit by experts from IIT or	Activity-1: Annual Academic audit Outcome/Target: 1. Internal Annual academic audit by IQAC 2. External annual academic audit by experts from IIT	Activity-1: Annual Academic audit Outcome/Target: 1. Internal Annual academic audit by IQAC 2. External annual academic audit by experts from IIT or	Activity-1: Annual Academic audit Outcome/Target: 1. Internal Annual academic audit by IQAC 2. External annual academic audit	Activity-1: Annual Academic audit Outcome/Target : 1. Internal Annual academic audit by IQAC

		NIT. Budget: 0.05 Lac	or NIT. Budget: 0.05 Lac	NIT. Budget: 0.05 Lac	by experts from IIT or NIT. Budget: 0.05 Lac	annual academic audit by experts from IIT or NIT. Budget: 0.05 Lac
	Any Other		-	-	-	-
Focus	Perspective/ Key Areas	2022-23	2023-24	2024-25	2025-26	2026-27
F2 M1,M2,M 4 Exam Results	Bridge Courses	Activity-1: Identification of Slow learners Outcome/Target: 1.To identify slow learners who perform below the set target. Activity-2: Counseling of Slow learners for Extra classes Outcome/Target: 1.To improve the academic performance of the slow learners Budget: NIL	Activity-1: Identification of Slow learners Outcome/Target: 1.To identify slow learners who perform below the set target. Activity-2: Counseling of Slow learners for Extra classes Outcome/Target: 1.To improve the academic performance of the slow learners Budget: NIL	Activity-1: Identification of Slow learners Outcome/Target: 1.To identify slow learners who perform below the set target. Activity-2: Counseling of Slow learners for Extra classes Outcome/Target: 1.To improve the academic performance of the slow learners Budget: NIL	Activity-1: Identification of Slow learners Outcome/Target: 1. To identify slow learners who perform below the set target. Activity-2: Counseling of Slow learners for Extra classes Outcome/Target: 1. To improve the academic performance of the slow learners Budget: NIL	Activity-1: Identification of Slow learners Outcome/Target: 1.To identify slow learners who perform below the set target. Activity-2: Counseling of Slow learners for Extra classes Outcome/Target: 1.To improve the academic performance of the slow learners Budget: NIL
	Tutorials for complex courses	Activity-1: Tutorial classes on selected topics Outcome/Target: 1.To enhance the	Activity-1: Tutorial classes on selected topics Outcome/Target: 1.To enhance the	Activity-1: Tutorial classes on selected topics Outcome/Target: 1.To enhance the	Activity-1: Tutorial classes on selected topics Outcome/Target: 1.To enhance the	Activity-1: Tutorial classes on selected topics Outcome/Target: 1.To enhance the

	Strengthening Experiential Learning component	academic performance of the students Budget: NIL Activity-1: Identification of Topics/experiments for Case study Outcome/Target: 1. To improve the experimental learning ability Budget: NIL	academic performance of the students Budget: NIL Activity-1: Identification of Topics/ experiments for Case study Outcome/Target: 1. To improve the experimental learning ability Budget: NIL	academic performance of the students Budget: NIL Activity-1: Identification of Topics/ experiments for Case study Outcome/Target: 1. To improve the experimental learning ability Budget: NIL	academic performance of the students Budget: NIL Activity-1: Identification of Topics / experiments for Case study Outcome/Target: 1. To improve the experimental learning ability Budget: NIL	academic performance of the students Budget: NIL Activity-1: Identification of Topics / experiments for Case study Outcome/Target: 1. To improve the experimental learning ability Budget: NIL
	Industry Connectivity for Class room		Activity-1: Expert Lecture Outcome/Target: 1.To enhance learning interest of the students 2. To update knowledge in recent advances Budget: 0.1Lac	Activity-1: Expert Lecture Outcome/Target: 1.To enhance learning interest of the students 2. To update knowledge in recent advances Budget: 0.15Lac	Activity-1: Expert Lecture Outcome/Target: 1.To enhance learning interest of the students 2. To update knowledge in recent advances Budget: 0.15Lac	Activity-1: Expert Lecture Outcome/Target : 1.To enhance learning interest of the students 2. To update knowledge in recent advances Budget: 0.2Lac
	Any Other					
Focus	Perspective/ Key Areas	2022-23	2023-24	2024-25	2025-26	2026-27
F3	IPR: Copyrights and Patents					
M3 Desearch	Paper Publications	02	02	02	02	02
Research	Funded Projects	Activity-1: Funded Projects	Activity-1: Funded Projects	Activity-1: Funded Projects	Activity-1: Funded Projects	Activity-1: Funded Projects

		Outcome/Target: Submitting up to 02 research project proposals for funding Budget: NIL	Outcome/Target: Submitting Olresearch project proposals for funding Budget: NIL	Outcome/Target: Submitting upto 02 project proposals based on previous outcomes Budget: NIL	Outcome/Target: Submitting upto 01 project proposals based on previous outcomes Budget: NIL	Outcome/Target: Submitting upto 02 project proposals based on previous outcomes Budget: NIL
	Analysis on project proposals for its quality relevance	Activity-1: Research Review committee Outcome/Target: Formation of Research Review committee Budget: NIL	Activity-1: Research Review committee Outcome/Target: Formation of Research Review committee Budget: NIL	Activity-1: Research Review committee Outcome/Target: Formation of Research Review committee Budget: NIL	Activity-1: Research Review committee Outcome/Target: Formation of Research Review committee Budget: NIL	Activity-1: Research Review committee Outcome/Target: Formation of Research Review committee Budget: NIL
	Any Other					
Focus	Perspective/ Key Areas	2022-23	2023-24	2024-25	2025-26	2026-27
	Learning for Placement					
	Soft Skills					
F4	Discussion Group					
M2 & M5	English Communicatio n Skills	-	-	-	-	-
Value	Use of ICT	Activity-1	Activity-1	Activity-1	Activity-1	Activity-1
additions		Utilization of				
		Online resources	Online resources	Online resources	Online resources	Online
		Outcome/Target: 1. Utilization of online resources for teaching	Outcome/Target: 1. Utilization of online resources for teaching learning	Outcome/Target: 1. Utilization of online resources for teaching learning	Outcome/Target: 1. Utilization of online resources for teaching learning process.	resources Outcome/ Target: 1. Utilization

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		learning process. 2. Sharing of learning materials through Google class room and YouTube channel	process. 2. Sharing of learning materials through Google class room and YouTube channel	process. 2. Sharing of learning materials through Google class room and YouTube channel	2. Sharing of learning materials through Google class room and YouTube channel	of online resources for teaching learning process. 2. Sharing of learning materials through Google class room and YouTube channel
	Any Other	-	-	-	-	-
Focus	Perspective	2022-23	2023-24	2024-25	2025-26	2026-27
F5 Community Oriented Services	Awareness Program	Activity-1: Awareness Program Outcome/Target: Importance of NEP- 2020 in education for government high school students Budget: 0.01 Lac	Activity-1: Awareness Program Outcome/Target: Science awareness program in nearby villages Budget: 0.01 Lac	Activity-1: Awareness Program Outcome/Target: Health Awareness program in nearby villages. Budget: 0.05 Lac	Activity-1: Awareness Program Outcome/Target: Environmental awareness Program in nearby villages Budget: 0.05 Lac	Activity-1: Awareness Program Outcome/ Target: Awareness program on model based teaching at nearby high schools Budget: 0.05 Lac
M3 & M5	Learning Programs					
	Technology Transfer Programs					
	Any Other					
Focus	Perspective/ Key Areas	2022-23	2023-24	2024-25	2025-26	2026-27
F6	No. of Offers	-NA-				

Placement	No. of students getting Placed	-NA-				
	pay packages being offered	-NA-				
	MoUs		-	-	-	-
	Internship	-NA-	-	-	-	-
	Others- if		-	-	-	-
	any					
Focus	Perspective/ Key Areas	2022-23	2023-24	2024-25	2025-26	2026-27
	NBA	Supporting for the attainment of department/institutional activity	Supporting for the attainment of department/institutio nal activity	Supporting for the attainment of department/institution al activity	Supporting for the attainment of department/instituti onal activity	Supporting for the attainment of department/institutional activity
F7 Accreditat	NAAC	Supporting for the attainment of department/institution activity	Supporting for the attainment of department/institutio n activity	Supporting for the attainment of department/institution activity	Supporting for the attainment of department/instituti on activity	Supporting for the attainment of department/institution activity
ion and Ranking	NIRF ranking	Supporting for the attainment of department/institution activity	Supporting for the attainment of department/institutio n activity	Supporting for the attainment of department/institution activity	Supporting for the attainment of department/instituti on activity	Supporting for the attainment of department/institution activity
	Any Other					

TOTAL BUDGET	2022-23	2023-24	2024-25	2025-26	2026-27
	0.11Lakhs	0.21Lakhs	0.30Lakhs	0.35Lakhs	0.40 Lakhs

HoD, Physics