

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

Department of Electronics and Communication Engineering

STRATEGIC PLAN IMPLEMENTATION REPORT



[2022-23]

1st July 2022 to 30th June 2023

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**Prepared and Maintained
By**

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Reference: 5 Year Plan 2022-23 to 2026-27

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INTRODUCTION

The purpose of this document is to record yearly the progress of the Department based on their stated strategic plan for the year **2022-23** (starting from 1st January to December and till June 30th 2023). In charge person indicted against each perspective/ Key areas have participated in the audit process and the records maintained by them are seen thoroughly by the audit team.

AUDIT TEAM:

1. **Chairman:** Principal, SDMCET, Dharwad
2. **Members:**
 - a) Dean Academic Program
 - b) Dean R & D
 - c) IQAC Coordinator – Member Secretary

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: Curriculum relevance- **M1**

F2: Academic/ Exam results- **M1, M2, M4**

F3: Research papers, Sponsored Projects, Root cause analysis for rejected papers and filling gap.- **M3**

F4: Value additions: Teaching, Soft skills, Use of ICT / Presentation, Discussion Groups
(Communication skills)- **M2 & M5**

F5: Community oriented services- **M3 & M5**

F6: Placement.

F7: Accreditation and Ranking: NBA, NAAC and NIRF - **M1 to M5 & Establishment of strong IQAC
to support quality checks and Institutional repository.**

F8: National Educational Policy- NEP-2020 – **M1 to M5. (Experiential Learning)**

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Focus [1]	Perspective/ Key Areas [2]	Year 2022-23			
		PLANNING [3]	Status as on 30 th June 2023		
			Outcomes achieved [4]	Reasons for any deviation [5]	Further action plan, if applicable [6]
F1 M1 <u>CURRICULUM RELEVANCE</u>	Re-establishing the relevance of critical thinking in Course outcomes and raising learning levels focusing on Experiential learning of NEP-2020	<p>Activity-1: Scheme for entire program Outcome/Target: Scheme finalisation In-charge Faculty: All Faculty Members</p> <p>Activity-2: Invited Guest Lecture on "Cyber Security" Outcome/Target: Syllabus upgradation In-charge Faculty: Dr. S. S. Kerur</p>	<p>Activity 1: The Scheme and syllabus is finalized after BOS meeting which is conducted on 24/06/2023.</p> <p><u>Link F1 BOS:</u></p>		

	<p>Re-establishing the relevance of Program Articulation Matrix-PAM</p>	<p>Activity-1: Analyzing /reviewing current PAM</p> <p>Target/ Outcomes: Arriving at some points towards improving new PAM</p> <p>In-charge Faculty: All faculty members</p> <p>Activity-2: Consultation with external academician</p> <p>Target/ Outcomes: Refined PAM</p> <p>In-charge Faculty: All faculty members</p>	<p>Activity 1: The PAM is analyzed and the input is given to BOS for refinement of syllabus.</p> <p>Link F1 PAM:</p> <p>Activity 2: Consultation with external academicians is done through collecting their inputs.</p> <p>Link F1 BOS:</p>
	<p>Conducting internal and External Audits</p>	<p>DUGC / IQAC</p>	<ul style="list-style-type: none"> • Dr. K.T. Deepak, Professor, IIT Dharwad conducted the external academic audit on 14.11.2022. Based on the remarks regarding publications, the faculty have published 05 papers in reputed journals/conferences. • The Department IQAC has conducted 2 internal audits for semester closing reports. • The department has undergone 2 internal audits by committee constituted at the college IQAC level. <p>Link F1 Audit:</p>
	<p>Others- if any</p>	<p>--</p>	<p>--</p>

Focus [1]	Perspective/ Key Areas [2]	Year 2022-23			
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F2 M1, M2, M4 <u>EXAM RESULTS</u>	Bridge Courses For all and specific to Slow learners & Learning Extensions (LE)	Activity-1: Identifying slow learners with IA performance as basis and guiding them clearing their doubts. Outcome/Target: Improvement in Results In-charge Faculty: Course Instructors	Activity-1: The faculties identify the slow learners based on IA performance. The students with score less than 8 were called and extra care is taken to clarify their doubts.		
	Tutorials for complex courses	Activity-1: Conducting tutorials as per Syllabus Outcome/Target: Two hours per week of tutorial sessions for identified subjects. In-charge Faculty: Respective Course Instructors	Activity-1: Two hours per week of tutorial sessions are conducted for the following subjects. <ol style="list-style-type: none"> 1. Network Analysis-18UECC304 2. Control Systems-18UECC401 Link F2 Tutorial:		

**Strengthening
Experiential
Learning
component**

Activity-1: Projects as per syllabus

Outcome/Target:

1. Completion of Minor Project 1 and Major Project Phase 1
- 2, Synopsis collection for Introductory and Minor project 2

In-charge Faculty:

All Faculty

Activity-2: Experiment based CTA activity

Outcome/Target: Experiential Learning

In-charge Faculty:

Respective Course Instructor

Activity-3:

Business idea proposal submission

Outcome/Target:

Startup idea

In-charge Faculty:

Dr. S. V. Viraktamath

Activity-4:

Workshop on PCB Design

Outcome/Target:

Upgrading Skills

In-charge Faculty:

Dr. S. V. Viraktamath

Activity-1:

The students have Completed Minor Project 1 and Minor Project 2 as per the academic requirements.

[Link F2 Project1:](#)

[Link F2 Project2:](#)

Activity-2: Experiment based CTA activities are completed by the students in the following subjects.

1. Linear Integrated Circuits
2. Communication systems-II
3. Information Theory and Coding

[Link F2 CTA:](#)

Activity-3:

Business idea : Manthan-2022 project was one among the top 10.

[Link F2 Manthan 158:](#)

	<p align="center">Industry Connectivity for Class room</p>	<p>Activity-1: Invited Guest Lecture from Industry</p> <p>Outcome/Target: Bridging gap between industry and academics</p> <p>In-charge Faculty: CIII Office</p> <p>Activity-2: Connecting expertise to train respective domain</p> <p>Outcome/Target: Placement improvement</p> <p>In-charge Faculty: CIII Office</p>	<p>Activity-1: Invited Guest Lectures are conducted from industry people in association with CIII office.</p> <p>Link F2 CIII Training:</p> <p>Activity-2: Connecting expertise to train the students in their respective domain is done through various training programmes conducted by CIII office.</p> <p>Link F2 CIII Training:</p>
	<p>Others- if any</p>	<p align="center">--</p>	<p align="center">--</p>

Focus [1]	Perspective/ Key Areas [2]	Year 2022-23		
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F3 M3 <u>RESEARCH</u>	Quality assessment of all research proposals	<p>Activity-1: Formation of Quality assessment committee</p> <p>Outcome/Target: Improving success rate of proposal acceptance.</p> <p>In-charge Faculty: Assessment committee</p>	<p>Activity-1:</p> <p>At the department level research review committee is framed to scrutinizing the research proposals submitted to various funding agencies.</p> <p>Link F3 Research Review Committee:</p>	
	<p>IPR: Copyrights and Patents</p> <p>Paper Publications</p> <p>Funded Projects</p>	<p>Activity-1: Guest lecture from expert on IPR</p> <p>Outcome/Target: Motivation to apply for IPR</p> <p>In-charge Faculty: Assessment committee</p> <p>Activity-2: Submission of research papers</p> <p>Outcome/Target: Publications</p>	<p>Activity-1:</p> <p>KSCST-IPR workshop is conducted at the college level on 29/05/2023. The total number of participants was 50.</p> <p>Link F3 KSCST-IPR:</p> <p>Activity-2:</p> <p>The department has submitted research papers to various conferences and journals. A total of 8 papers have been published.</p> <p>Link F3 Publications:</p>	

		<p>In-charge Faculty: All faculty</p> <p>Activity-3: Preparation of project proposals for funding agency</p> <p>Outcome/Target: Submission of project proposals for funding agency</p> <p>In-charge Faculty: All faculty</p>	<p>Activity-3:</p> <ul style="list-style-type: none"> • The department has submitted 3 research project proposals to VGST Bangalore. • The department has received Rs. 50,000=00 funding from SDMCET under Seed Money Scheme entitled “Design and Development of an interactive hardware tool for learning mathematics by rural primary/high school students”. Duration: 2 Years (ongoing) • The department has received Rs.30lakhs funding from VGST under K-FIST(L2) Scheme entitled “Instituting an Intelligent Innovation Lab setup for Precision Agriculture Services”. Duration: 2 years(ongoing) • The department has received Rs.20 lakhs funding from VGST under K-FIST(L1) Scheme entitled “Establishment of advanced communication laboratory to create teaching and research facility for software Defined Radio(SDR)” . Duration: 2 years(ongoing) <p><u>Link F3 Research Funded Projects :</u></p>
	<p>Others- if any</p>	<p>--</p>	<p>--</p>

Focus	Perspective/ Key Areas	Year 2022-23			
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F4 M2 & M5 <u>VALUE ADDITIONS</u>	Learning for Placement	Activity-1: Floating the electives to support placement activity Outcome/Target: Upgrading technical skills In-charge Faculty: Respective course instructors	Activity-1: Many electives are floated to support placement activity. <ul style="list-style-type: none"> • Scientific Computing using Python(18UECE512) • Data structures using C++(18UECE622) • Object Oriented Programming using C++(18UECE510) Link F4 Learning for Placement:		
	Soft Skills	Activity-1: Aptitude and soft skills training Outcome/Target: Upgrading logical, analytical and soft skills. In-charge Faculty: CIII office	Activity-1: Aptitude and soft skills training programmes are conducted regularly by CIII office. Link F4 Soft skills:		
	Discussion Groups	Activity-1: Organising Group discussion Outcome/Target:	Activity-1: Mock placement activity is conducted by senior students for their juniors. During the activity, Group discussions are organized to improve student		

		Upgrading students' competitive skills In-charge Faculty: Placement coordinators	communications and competitive skills.
	English Communication Skills	Activity-1: Soft skills training Outcome/Target: Upgrading English communication skills. In-charge Faculty: CIIIoffice	Activity-1: Soft skills training programmes are conducted regularly by CIII office. Link F4 Soft skills:
	Use of ICT	Activity-1: Encouraging students to take up NPTEL/MOOC courses Outcome/Target: Enhancement of domain knowledge through certification In-charge Faculty: All faculty	Activity-1: Students are given awareness for enrolling to NPTEL/MOOC courses. The faculty makes use of ICT tools through blogging, youtube videos etc... Link F4 ICT:
	Others- if any	--	--

Year 2022-23

Status as on 30th June 2023

Focus	Perspective/ Key Areas	PLANNING	Status as on 30 th June 2023		
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			[4]	[5]	[6]
<p align="center">F5 M3 & M5</p> <p align="center">COMMUNITY ORIENTED SERVICES</p> <hr/>	Awareness Program	<p>Activity-1: On Swacchh Bharath Abhiyaan</p> <p>Outcome/Target: Clean environment</p> <p>In-charge Faculty: Prof. Dr. S. S. Kerur</p>	<p>Activity-1: The students participated in Swacchh Bharath Abhiyaan as part of AICTE activity. They undertook cleaning temple premises at Nuggikeri Dharwad, Siddharoodha math at Hubli, cleaning of lakes at Kelageri Dharawad.</p> <p><u>Link F5 Swacch Bharat:</u></p>		
	Learning Programs through workshops	<p>Activity-1: Upgrading the knowledge of science and technology for rural students.</p> <p>Outcome/Target: Motivation to rural students for better understanding</p> <p>In-charge Faculty: Prof. Dr. S. S. Kerur and Prof. Dr. S. V. Viraktamath</p>	<p>Activity-1: Upgrading the knowledge of science and technology for rural students was taken up as part of Unnat Bharat Abhiyan(UBA) by the way of conducting classes for Government rural primary and high school students.</p> <p><u>Link F5 Technology Transfer:</u></p>		
	Technology Transfer Programs	<p>Activity-1: Computer Awareness Program for rural students/Villagers</p> <p>Outcome/Target:</p>	<p>Activity-1: Computer Awareness Program for rural students/Villagers was taken up as part of Unnat Bharat Abhiyan(UBA) by the way of conducting classes for Government rural primary and high school students and villagers.</p>		

		<p>Strengthened digital skills for rural students/Villagers</p> <p>In-charge Faculty: Prof. Dr. S. S. Kerur</p>	<p>Link F5 Awareness:</p>
	<p>Others- if any</p>	<p>--</p>	<p>--</p>

Year 2022-23

Status as on 30th June 2023

Focus	Perspective/ Key Areas	PLANNING	Status as on 30 th June 2023		
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			[4]	[5]	[6]
<u>PLACEMENT</u>	No. of Offers	At least one offer to each eligible student.	The total number of offers for the academic year 2022-23 is 132. Link F6 Offers:		
	No. of students getting Placed	Minimum 100 students	The No. of students getting Placed is 89. Link F6 Placed:		
	Pay packages being offered	Average package 5LPA	Average package is 7.13 LPA Link F6 Average Package:		
	MoUs	1. Infosys 2. Juniper Networks 3. TATA Marcopolo	The institute has MOUs with following companies. 1. Infosys, Bengaluru 2. TATA Motors, Dharawad Link1 F6 MOUs: Link2 F6 MOUs:		
	Internship	Approximate 20 students	A total of 142 students have undergone internships in various companies. Link F6 Internship:		
	Others- if any	--	--	--	--

Focus	Year 2022-23				
	Perspective	Perspective/ Key Areas	Status as on 30 th June 2023		
			Outcomes achieved [4]	Reasons for any deviation [5]	Further action plan, if applicable [6]
ACCREDITATION AND RANKING	NBA	Activity-1: Preparation of NBA documents Outcome/Target: Updated NBA files In-charge Faculty: Dr. Vyas R. Murnal	Activity-1: The department has successfully completed the compliance visit by NBA team on 20/05/2023. The department is accredited for term July 2023 to June 2026(3 Years). Link F7 NBA:		
	NAAC	Activity-1: Preparation of NAAC documents Outcome/Target: Updated NAAC documents In-charge Faculty: Dr. Hemalata Bhujle	Activity-1: The institution has applied for NAAC accreditation. The earliest expected date of visit is August 2023.		
	NIRF ranking	Activity-1: Report on publications, consultancy, funded projects, patents. Outcome/Target: NIRF ranking within 200 In-charge Faculty: Dr. S. S. Kerur	Activity-1: Attempts are made to improve the quality and number of publications, consultancy, funded projects, and patents so as to achieve NIRF ranking within 200.		
	Others- if any	--	--		

Remarks- by the auditing team.

The progress report mentioned above is presented by the concerned department team, verified for its correctness by the auditing team and approved by the concerned authorities mentioned below.

Name and Signature with Date of the concerned authority								
Year 2022-23	Dr. K.N. Hosur	Dr. Sharada C. Sajjan	Dr. Bairu K. Saptalakar	Dr. Shreedhar A. Joshi	Prof. Pradeep Vibhuti	Prof. Prateek Cholappanavar	Dr.A.A. Kittur	Dr.K. Gopinath
	DUGC Member Secretary	Dept-IQAC Coordinator	Faculty I/C of Strategic Plan	Head of the Department	Member-3 Audit Team	Member-2 Audit Team	Member-1 Audit Team	PRINCIPAL