

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

Department of Information Science and Engineering

STRATEGIC PLAN IMPLEMENTATION REPORT



Quarterly Audit Report of Strategic Plan for the Year 2022

Review Date : 24/01/2023

Jan to Dec 2022

Reference: 5 Year Plan 2022-2026

Introduction:

The purpose of this document is to record the **yearly** progress of the Department based on their stated strategic plan for the year -**2022**(starting from 1st January and ending by 31st December).

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) Dr. R.L. Chakrasali, Dean Academic Program
 - b) Dr. Santoshkumar H., Dean R & D
 - c) Dr. U.P.Kulkarni, 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			
		PLANNING [3]	Observations / Remarks by Auditors		
			Outcomes achieved [4]	Reasons for any deviation [5]	Further action plan, if applicable [6]
F1 / M1 Curriculum Relevance	Re-establishing the relevance of critical thinking in Course outcomes and raising learning levels focusing on Experiential learning of NEP-2020.	<p>Activity-1: BOS meet</p> <p>Outcome/Target:</p> <ol style="list-style-type: none"> 1. Reframing of COs 2. NEP implementation as multidisciplinary activities <p>In-charge Faculty: Dr. S. R. Biradar DUGC Team –Ms Arati Nayak Mrs. Varsha V Mr. Sachin Joshi</p> <p>Planning (detailed explanation to be given)</p> <ul style="list-style-type: none"> • to conduct meetings – DUGC • brainstorming session – course outcome • documents .. SRB 	<ol style="list-style-type: none"> 1. BOS meet was conducted on 2022. 2. BOS report in full format is maintained and documented. <p>The highlights of the BOS were</p> <ul style="list-style-type: none"> ✓ Introduction of open electives as multidisciplinary activities of NEP. ✓ The CO of the Pollution Control Engineering (18UCHC403) has been reframed to enhance the interpretation and design and development of waste water treatment plants. <p>The CO of the Environmental Engg.lab has been reframed as the experiments have been enhanced.</p> <p>Brief description of the outcome achieved mentioning the date and other statistics, if any.</p> <p>Annexure A1 to be submitted</p> <p>Detailed report should be maintained</p>		
	Re-establishing the relevance of Program Articulation Matrix-PAM	<p>Activity-1: BOS Meet</p> <p>Outcome/Target:</p> <p>Implementation of mapping of CO-PO Projects to be implemented on environment and society and environment based.</p> <p>In-charge Faculty: Dr. Anita Dixit</p> <p>Planning (detailed explanation to be given)</p> <ul style="list-style-type: none"> • to conduct meetings – approval by DUGC • brainstorming session – regd. planning of projects relevant to environment and society. • documents 	<p>Brief description of the outcome achieved mentioning the date and other statistics, if any.</p> <p>Annexure A2 to be submitted</p> <p>Detailed report should be maintained</p>		

	<p>Conducting internal and External Audits</p>	<p>Activity-1: Internal Audit</p> <p>Outcome/Target:</p> <p>Planning to verifying the last year outcomes and progress and external audit process to be verified</p> <p>In-charge Faculty: Dr. Vandana S. Bhat</p>	<p>Both Internal and External Audit are completed and documented</p> <p>Internal Audit was conducted on 23/05/2022 by Department IQAC team. Verified and quantified by the IQAC and HOD.</p> <p>External Audit was conducted on 28/05/2022 by and expert panel Dr. Tamal Das, Professor, IIT – Dharwad. The extract of his remarks are specified:</p> <p>Department has well equipped infrastructure and experienced faculty members to offer state of the art education in the area of Computer Science & Engineering.</p> <p>The curriculum development is well aligned with OBE principles and is kept update with regular inputs from external subject experts and industry members.</p> <p>He has appreciated the way it was presented.</p> <p>He verified and quantified the details presented.</p> <p>He appreciated for the research work carried out and the students participation outside.</p>		
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Focus [1]	Perspective/ Key Areas [2]	Year 2022		
		PLANNING [3]	Observations / Remarks by Auditors	
			Outcomes achieved [4]	Reasons for any deviation [5]
F2 M1,M2,M4 Exam Results	Bridge Courses For all and specific to Slow learners & Learning Extensions	Activity-1: Bridge Course Advanced Concepts in C programming Outcome/Target: Enhancement of Programming Skill sets In-charge Faculty: Dr. J. D. Pujari	Bridge course on Advanced Concepts in C programming. Conducted for 3 rd semester before the regular classes commenced. Total participants is 69 and it was for a duration of 25 hrs.	
		Activity-1: Learning Extensions Practice session on lex and yacc Outcome/Target: List of Programs. In-charge Faculty: Dr. Pushpalatha Nikkam	Hands on Session was conducted in two slots for Iv semester students. (i) First slot on was on 19 th and 20 th May 2022; (ii) Second slot was conducted on 26 th and 27 th May 2022. It enhances the working knowledge of the tools of the compiler. Attainment is achieved at substantial level	
	Tutorials for complex courses	Activity-1: Outcome/Target: In-charge Faculty: Dr. J. D. Pujari Planning to conduct tutorial sessions for Data Structures (3 rd Sem)	Brief description of the outcome achieved mentioning the date and other statistics, if any. Annexure A6 to be submitted Detailed report should be maintained	

		<p>Activity-1:</p> <p>Outcome/Target:</p> <p>In-charge Faculty: Dr. Pushpalatha Nikkam</p> <p>Planning to conduct tutorial sessions for Finite Automata and Formal Languages (4th Sem)</p>	<p>Brief description of the outcome achieved mentioning the date and other statistics, if any. Annexure A7 to be submitted Detailed report should be maintained</p>		
	Strengthening Experiential Learning component	<p>Activity-1: Project-based learning</p> <p>Outcome/Target: To conduct for 4th semester students – project implementation using Micro-controller List of projects</p> <p>In-charge Faculty: Prof. Deepa Bendigeri</p>	<p>Activity conducted- 4th semester – In the Academic year 2021-22</p> <ul style="list-style-type: none"> • Total number of Projects -13 • Each team comprises of 5-6 students • Projects were based on ARM microcontroller (LPC2148) <p>Refer Annexure A8 for details</p>		
		<p>Activity-1: Project-based learning</p> <p>Outcome/Target:</p> <p>In-charge Faculty: Prof. Leena Sakri</p> <p>Planning to conduct a department level meeting with the alumni (a single letter to be drafted and submitted by the in-charge faculty) [Project-based learning – DBMS in 5th sem]</p> <p>Outcome/Target:</p>	<p>Brief description of the outcome achieved mentioning the date and other statistics, if any. Annexure A9 to be submitted Detailed report should be maintained</p>		

	Industry Connectivity for Classroom	Activity-1: Outcome/Target: In-charge Faculty: Dr. Anita Dixit Planning to conduct a meeting with alumni regarding student projects at 6th semester. Exploring tools and industry practices Every batch to have a mentor (letter to be drafted and submitted by the in-charge faculty)	Brief description of the outcome achieved mentioning the date and other statistics, if any. Annexure A10 to be submitted Detailed report should be maintained		
		Activity-1: Outcome/Target: In-charge Faculty: Prof. Varsha S Jadhav Planning to conduct a meeting with alumni regarding student projects at 8th semester. (letter to be drafted and submitted by the in-charge faculty) Every batch to have a mentor	Brief description of the outcome achieved mentioning the date and other statistics, if any. Reason for deviation from the planning to be mentioned.		
	Others- if any	-	-	-	-

Focus [1]	Perspective/ Key Areas [2]	Year 2022			
		PLANNING [3]	Observations / Remarks by Auditors		
			Outcomes achieved [4]	Reasons for any deviation [5]	Further action plan, if applicable [6]
F3 M3 Research	Quality assessment of all research proposals	<p>Activity-1: Reserch Faculty committee will be formed to check copyright, patent, paper submissions</p> <p>Outcome/Target: Patent – 1 No Research Proposal – 1 No Paper Publications: 17 FDP – 01 In-charge Faculty: Mr. S.S. Joshi Dr.Rajashekarappa Dr. Anita Dixit</p>	<p>Patent Title of the invention : IOT, WSN AND AL BASED REAL TIME TRAFFIC MONITORING USING SPHERICAL GRID ROUTING</p> <p>Date of filing of Application :25/01/2022 Application No.- 202241004201 A Published a patent.</p> <p>Research Proposal Proposals submitted (01) to VGST were reviewed by a team of experts and action based on the observations were corrected. It is submitted to VGST and results awaiting.</p> <p>Date of submission: VGST Ref. No VRN/002019/21-22- Feb 28th 2022. Title : Innovation Laboratory (Artificial Intelligence and Machine Learning) Proposals submitted to VGST and results awaiting</p> <p>FDP - Proposals FDP submitted (01) to VGST were reviewed by a team of experts and action based on the observations were corrected. It is submitted to VGST and results awaiting.</p> <p>Research Publications : Papers published Dr.J.D.Pujari – SCOPUS 02 Dr.S.R..Biradar – SCOPUS 02, non indexed -1 Mrs.Leena S. –SCOPUS 01 Dr.Pushpalata N. – non indexed – 2 Mrs.Varsha J. – non indexed - 1 Mrs.Deepa – SCOPUS -2 Dr.Anita Dixit – UGC-2 Ms.Arati N. – UGC-1 Dr.S.S.Joshi – SCOPUS 01 Dr.Rajashekarappa – non-indexed 1 Dr.Vandana Bhat – SCOPUS 02</p>		

	Others- if any		Final year students (2022) submitted a project proposal titled Gender and age detection using deep learning approach for preventing unauthorized access under the guidance of Dr.Vandana S. Bhat to KSCST. Details enclosed.
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Focus [1]	Perspective/ Key Areas [2]	Year 2022		
		PLANNING [3]	Observations / Remarks by Auditors	
			Outcomes achieved [4]	Reasons for any deviation [5]
F4 M2 & M5 Value additions	Learning for Placement	Activity-1: Outcome/Target: In-charge Faculty: Dr. Rajashekarappa Planning to conduct an aptitude training, in Collaboration with CIIL, for 6th semester students.	Brief description of the outcome achieved mentioning the date and other statistics, if any. Annexure A15 to be submitted Detailed report should be maintained	
		Activity-1: Outcome/Target: In-charge Faculty: Prof. Leena Sakri Planning to conduct session on query writing - technical skills.	Brief description of the outcome achieved mentioning the date and other statistics, if any. Annexure A16 to be submitted Detailed report should be maintained	
	Activity-1: Outcome/Target: In-charge Faculty: Dr. Anita Dixit Planning to conduct session on DAA - technical skills.	Brief description of the outcome achieved mentioning the date and other statistics, if any. Annexure A17 to be submitted Detailed report should be maintained		

	<p>Soft Skills</p>	<p>Activity-1:</p> <p>Outcome/Target:</p> <p>In-charge Faculty: Dr. Rajashekarappa</p> <p>Planning to conduct training on aptitude in Collaboration with CIII, for 6th semester students.</p>	<p>Brief description of the outcome achieved mentioning the date and other statistics, if any.</p> <p>Annexure A18 to be submitted</p> <p>Detailed report should be maintained</p>
	<p>Group Discussion</p>	<p>Activity-1:</p> <p>Outcome/Target:</p> <p>In-charge Faculty: Ms. Arati Nayak</p> <p>Planning to conduct Group Discussion and Mock Interviews by the placed students to the 6th semester students.</p> <p>Better understanding of the recruitment process</p>	<p>Brief description of the outcome achieved mentioning the date and other statistics, if any.</p> <p>Annexure A19 to be submitted</p> <p>Detailed report should be maintained</p> <p>Mock interview was organized for the third year students by the placed students of final year. The event was conducted from 29th Nov to 1st Dec, 2022 providing a thorough simulation of a real employment interview. 60 students registered for this event. All the participants were given a time slot for their interview and accordingly mock interview took place.</p> <p>Event schedule : Aptitude Test (60 min), Group Discussion (15 min), Technical Round (1 hr.), Managerial Round (30 min.), HR Round (30 min.)</p> <p>Students expressed satisfaction on conducting the mock interview.</p>
	<p>English Communication Skills</p>	<p>Activity-1:</p> <p>Outcome/Target:</p> <p>In-charge Faculty: Prof. Tanweer Ahmed B</p> <p>Planning to conduct workshop on English communication skills through CIII</p>	<p>Brief description of the outcome achieved mentioning the date and other statistics, if any.</p> <p>Detailed report should be maintained</p> <p>Mention the reason for deviation from the planning</p>

	<p>Use of ICT Information Communication Technology</p>	<p>Activity-1:</p> <p>Outcome/Target:</p> <p>In-charge Faculty: Dr. S.R.Biradar</p> <p>Planning to conduct MOOC courses</p>	<p>Brief description of the outcome achieved mentioning the date and other statistics, if any. Annexure A20 to be submitted Detailed report should be maintained</p>			
	<p>Others- if any</p>	<p>-</p>	<p>-</p>	<p>-</p>	<p>-</p>	<p>-</p>

Focus [1]	Perspective/ Key Areas [2]	Year 2022			
		PLANNING [3]	Observations / Remarks by Auditors		
			Outcomes achieved [4]	Reasons for any deviation [5]	Further action plan, if applicable [6]
F5 Community Oriented Services M3 & M5	Awareness Program	Activity-1: Outcome/Target: In-charge Faculty: Planning to conduct awareness program on 1. Health Awareness among girls 2. Career opportunity 3. Digital literacy	Status – Could not be conducted to due to COVID restrictions. Initiation is in the process of implementing during the first/second quarter (Q-I/II) in the year 2023.		
	Learning Programs through workshops	Activity-1: Outcome/Target: In-charge Faculty: Dr. Rajashekarappa Planning to conduct a workshop on Computer awareness (MS Office) Digital literacy	Status – Could not be conducted to due to COVID restrictions. Initiation is in the process of implementing during the first/second quarter (Q-I/II) in the year 2023.		
	Technology Transfer Programs	NIL	-	-	-
	Others- if any	-	-	-	-

Focus [1]	Perspective/ Key Areas [2]	Year 2022		
		PLANNING [3]	Observations / Remarks by Auditors	
			Outcomes achieved [4]	Reasons for any deviation [5]
F6 Placement	No. of offers	75		
	No. of students getting placed			
	Pay packages being offered	Minimum 6.45 lakhs Maximum 14 lakhs		
	MoUs	01		
	Internship	76		
	Others- if any	-		

Focus [1]	Perspective/ Key Areas [2]	Year 2022		
		PLANNING [3]	Observations / Remarks by Auditors	
			Outcomes achieved [4]	Reasons for any deviation [5]
F7 Accreditation and Ranking	NBA	Activity-1: Outcome/Target: In-charge Faculty: Prof. Leena Sakri Planning to conduct a review meeting to discuss the NBA compliance.	Brief description of the outcome achieved (Compliance report submission) mentioning the date and other statistics, if any. Annexure A21 to be submitted Detailed report should be maintained	
	NAAC	Activity-1: Outcome/Target: In-charge Faculty: Dr. Rajashekarappa Planning to conduct an awareness session on NAAC. (letter to be submitted in this regard from the NAAC coordinator Dr.S.M.Joshi)	Brief description of the outcome achieved mentioning the date and other statistics, if any. Annexure A22 to be submitted Detailed report should be maintained	
	NIRF ranking.	Activity-1: Outcome/Target: In-charge Faculty: Dr. Rajashekarappa Planning to conduct an awareness session on NIRF Ranking.	Review meeting could not be conducted due to COVID'19 isolation protocols and ongoing examinations, student busy preparations for examinations. Plan to conduct in QI/II in the year 2023.	
	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.

X Quarter	Name and Signature with Date of the concerned authority							
	DUGC Member Secretary	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
	Ms. Arati Nayak	Dr. Vandana Bhat	Dr. S. R. Biradar	Dr. J.D.Pujari	Dr. U.P.Kulkarni	Dr. Santosh Kumar	Dr. R.L. Chakrasali	Dr. K. Gopinath

