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

Department of Chemistry

STRATEGIC PLAN IMPLEMENTATION REPORT



Annual Performance Report of Strategic Plan for the Year (2022 Jan – Dec)

Reference: 5 Year Plan 2022-2026

INTRODUCTION:

The purpose of this document is to record the **annual performance** 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) 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)

CONTACT DETAILS:

1. Dr. A. A. Kittur, Professor and Head, Department of Chemistry, SDM College of Engineering and Technology, Dharwad-580002.

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2. Mrs. Asma Tatagar, FacultyI/C- Strategic Plan, Department of Chemistry, SDM College of Engineering and Technology, Dharwad-580002.

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			Year	· 2022 23	
Focus	Perspective/ Key Areas	PLANNING	Obse	ervations / Rema	arks by Auditors
[*]	[2]	[3]	Outcomes achieved	Reasons for any deviation	Further action plan, if applicable
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.	 Activity: Brainstrom session. BOS Meet BOS Meet Outcome/Target: Reframing of COs NEP implenetation as teaching activities In-charge Faculty: A. A. Kittur kittur1965@gmail.com 9945258096 	 BOS meet was BOS report in copy is attached The highlights ✓ Introd ✓ The refrancorro ✓ The C ✓ finali ✓ Care ✓ Expendent 	s conducted on 10 th Aug 20 n a prescribed format is ma ed) s of the BOS were duction of multidisplinary a CO of the Engineering med to enhance the interp sion studies, waste water ar CO of the Environmental ch zation of Ist year chemistry taken to use proper Blooms	intained and documented. (BOS resolution activities of NEP. Chemistry (18UCYC100/200) has been pretation and design and development of alysis, chemical fuels etc. emistry has been reframed. syllabus with 10% changes. taxonomy while framing the QP. Components like glass electrode, calomel

the relevance of Program Articulation Matrix-PAM	Activity-1: Pre BOS/ DUGC meeting Activity-2:Analyzing /reviewing current PAM continuation Target/ Outcomes: Arriving at some points towards improving new PAM In-charge Faculty: Dr. Shashidhar shashidhar66111@gmail.com Ph: 9986971155	 Pre BOS meeting of all the department staff was conducted on 4th August 2022. Implementation of CO-PO mapping for the modified COs was discussed in Pre-BOS conducted on 4st Aug 2022. It is verified and quanitifed by the Department IQAC. The PAM matrix for this Batch 21 scheme is documented and decided to continue the same.
Conducting internal and External Audits	Activity-1: Internal Audit by inhouse IQAC team External audit by Dr. Suresh Tuwar, Professor, Karnatak Science College, Dharwad. Target/ Outcomes: Audit report generation. Incharge: Dr. A. A. Kittur <u>Kittur1965@gmail.com</u> 9945258096	 Both Internal and External Audits are completed and documented. Internal Audit was conducted on 30/07/2022 by Department IQAC team. Verified and quanitifed by the IQAC and HOD External Audit was conducted on 21/07/2022 by Dr. Suresh Tuwar, Professor Karnataka Science College Dharwad. The remarks made by him are attached here with. He has appreciated the way it written and presented. He verified and qunaitifed the details presented. He appreciated for the reserch work carried out, publications and participation of staff in conferences. Suggested to do research in advance fields of chemistry
Others- if any		

Focus	Perspective/ Key Areas		Ob	servations / Rer	narks by Auditors
[1]	[2]	PLANNING [3]	Outcomes achieved	Reasons for any deviation	Further action plan, if applicable [6]
F2 M1,M2,M4 Exam Results	Bridge Courses For all and specific to Slow learners & Learning Extensions	Activity-1: 1. Identification of Slow learners 2. Extra classes for slow learners Outcome/Target: Improvement in results of IA-III and SEE Prof. Asma M. Tatagar <u>asmatatagar@gmail.com</u> Ph:9380520089			t (below 10 marks/out of 20 in the 1 st test) as the timetable and engaged the classes . The fied slow learners in Subjects like Glass on, numericals on Bomb calorimeter and improvmnet observed are maintained with egister. The same is verified and quantified by
	Tutorials for complex courses	Activity-1: Identification of topics. Outcome/Target: 1. Tutorial classes conducted . 2. Improvement in subsequent results In-charge Faculty: Dr. A. A. Kittur <u>kittur1965@gmail.com</u> Ph: 9945258096	students reg tutorial class have discuss One hour po Around 70	arding the topics to be t ses selected topics(num ed to complete the task er week Tutorial classe	es are conducted on selected topics. ions have attended these classes.

Strengthenin Experientia Learning component		The following experi BOS meet for experi 1. Determinatio 2. Potentiometr	riments were identifi mental based learnin n of pKa of weak aci	id by glass electrode. in the given solution.
Industry Connectivity for Class room	, 	Industry connec	tivity for class room	is planned and carriedout
Others- if any				
Perspective/		Vea	: 2022-23	
FocusFerspective/ Key Areas[1][2]	PLANNING [3]	1		arks by Auditors

3 M3 Research	Quality assessment of all research proposals	Activity:Establishment of core team Guiding young researchers to write project proposals Outcomes/Targets :Focus on research To Secure external fund from agencies Proposals preparation review Publications Faculty I/C :Dr. A. A. Kittur	 Formation of research core team consists of two members to look after all research activities HOD and senior faculty are the members are team members. The team Guiding young researchers to write project proposals to get the fund from external agency. List of project proposals submitted are as follows: 1. Dr. A. A. Kittur applied a project proposal "Design, Development and Characterization of Nanomaterials for Energy storage Device Applications" worth Rs.40,00,000/- to VGST Bangalore under K-FIST L2. 2. Dr. N. Shashidhar applied a project proposal "Challenges in framing the Basic sciences Curricula in NEP scenario of Technological Education" Low-dimensional semiconductor hetero structures applications for energy and environment" worth Rs.2,00,000/- to VGST Bangalore. 3. Dr. N. Shashidhar applied a project proposal "Synthesis, characterization and biological activities of solid state and solution state metal complexes with P-L and M-L" worth Rs.2,00,000/- to VGST Bangalore under K-FIST L1 4. Prof. Asma Tatagar applied a project proposal "Sustainable development in energetic and technology- a focus on clean and green energy enhancing the livelihood" worth Rs.2,00,000/- to VGST Bangalore. 5. Prof. Sahana Nayak applied a project proposal "Synthesis and fabrication of electrode materials for Supercapacitor applications using transition metal phosphides and their composites" worth Rs.2,42,000/- to VGST Bangalore.
	IPR:	Activity: Brainstrom session	Not yet initiated the activity but attended the webinar on this topic.
	Copyrights and Patents Paper Publications	arranged to understand IPR/Patent filling Outcomes/Targets: Faculty have the idea of IPR and patents Research papers writing Faculty I/C Dr. Shashidhar	 Published 04 research papers in international journals of high impact factor and 01 is in national journal. All 04 papers are Q2 rated with high impact factor. Published 05 conference papers in Elseweir proceedings. Attended FDP, Seminars, Workshops, conferences and presented papers. One project is ongoing. Five proposals were submitted to VGST for the grant. Details are listed inattachment enclosed.

	Published Papers lis	t is attached for reference	ence.
Funded Projects	viable, non-hazardo alternative to conve	ous and eco-friendly entional nonbiodegra- nctioned to Prof Asn	n and Fabrication of Commercially bio plastic from aquatic weeds- an dable plastics" under RGF/S worth na Tatagar, Lecturer, Department of
Others- if any			

			Year 2022-23		
Focus	Focus Perspective/		Obse	ervations / Rema	arks by Auditors
Toous	Key Areas	PLANNING	Outcomes achieved [4]	Reasons for any deviation [5]	Further action plan, if applicable
	Learning for Placement				
F4	Soft Skills				
M2 & M5	Discussion Group		Group discussion is carried out in each division of first year.		
Value additions	English Communication Skills				
	Use of ICT Information Communication Technology	Activity: Use of online platforms like Zoom, Google meet and MS teams for the conduction of online classes if	<u>Study material provided</u> through google classroom <u>Videos</u> and ppts related to designed curriculum are shared with students usi ICT so as to understand the subject matter clearly.		

	necessary Outcomes/Targets :Easily reachable to students Easily provide study material to students Faculty I/C Prof. Sahana Nayak		
Others- if any			

			Year 202	2-23	
Focus			arks by Auditors		
Tocus	Perspective/ Key Areas	PLANNING	Outcomes achieved	Reasons for any deviation	Further action plan, if applicable
F5 Community Oriented Services	Awareness Program	Activity: Identification of village Visit to village school to bring awareness about health & Hygeine Outcomes/Targets Faculty I/C Prof. Sahana Nayak	Yerrikoppa Vvillag will attend this task		ted to school authorities. Soon we
	Learning Programs through workshops	Activity: Demonstration of quality of drinking water. Outcomes/Targets Testing the water parameters Faculty I/C Prof. Sahana Nayak	Planned for the acti	vity but not yet initiat	ed.
M3 & M5	Technology Transfer Programs				
	Others- if any				

	Year 2022-23					
Focus			Obse	ervations / Rema	arks by Auditors	
100005	Perspective/ Key Areas	PLANNING	Outcomes achieved	Reasons for any deviation [5]	Further action plan, if applicable	
	No. of Offers					
	No. of students					
F6	getting Placed					
ľV	pay					
Placement	packages being					
	offered MoUs					
	Internship					
	Others- if any					

			Year 2022-23		
Focus			Obse	ervations / Rem	arks by Auditors
	Perspective	Perspective/ Key Areas	Outcomes achieved [4]	Reasons for any deviation [5]	Further action plan, if applicable [6]
F7	NBA		NA		
	Faculty I/C:				
Accreditation	NBA Coordinator				
and Ranking	NAAC	Activity-1: NAAC	Department level d	ocuments submitted	to core committee.

Faculty I Dr. Shash		
NAAC Coor	dinator Outcome/Target: 1. Data collection and Documentation for submission	
NIR rankin Faculty I/0 PG Coordina	Activity Aiming for ranking within 200g.Strenthening institute by publication in high impact journals, by	 Published 04 research papers in international journals of high impact factor and 01 in national journal. Published 05 research articles in Elseweir proceedings. One paper is accepted in Q1 rating journal. Attended FDP, Seminars, Workshops, conferences and presented papers One project is ongoing.

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