SDM COLLEGE OF ENGINEERING AND TECHNOLOGY

Dhavalagiri, Dharwad-580002, Karnataka State, India.

Email: principal@sdmcet.ac.in, sdmcet.iqac@gmail.com

Internal Quality Assurance Cell

[Department of Mechanical Engineering]

REPORT

On

The Annual Quality Assurance Report

AQAR

[2022-23]

1st July 2022 to 30th June 2023

Date of Publication: 1st July 2023

Prepared and Maintained

By

Dr. S.S. Honnungar

IQAC Coordinator

SDMCET, Dharwad

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TABLE OF CONTENTS

PART – A

DATA OF THE INSTITUTION

1. Name of the Institution: SDM College of Engineering and Technology.

- Name of the Head of the institution: **Dr. K. Gopinath**
- Designation: **Principal**
- Does the institution function from own campus? **Yes**
- Phone no./Alternate phone no.: **0836-2464638**
- Mobile no.: **9538677470**
- Registered Email: **principal@sdmcet.ac.in**
- Alternate Email: **kgopinath@gmail.com**
- Address : **Dhavalagiri, Kalghatgi Road**
- City/Town : **Dharwad**
- State/UT : **Karnataka State**
- Pin Code : **580002**

2. Institutional status:

- Autonomous Status *(provide the date of Conformant of Autonomous Status):* **DD-MM-YYYY**
- Type of Institution: Co-education/Men/Women? : **Co-education**
- Location: Rural/Semi-urban/Urban: **Urban**
- Financial Status: Grants-in aid/ UGC 2f and 12 (B)/ Self-financing? : **Self financing**
- Name of the IQAC Coordinator/Director: **Dr. Umakant P. Kulkarni**
- Phone no. /Alternate phone no.: **9448915301**
- Mobile: **9448915301**
- IQAC e-mail address : **sdmcet.iqac@gmail.com**
- Alternate Email address : **sdmcet.iqac@sdmcet.ac.in**

3. Website address: https://sdmcet.ac.in

- Web-link of the AQAR: (Previous Academic Year): **NA** Prepared first time (2022-23)

4. Whether Academic Calendar prepared during the year? : **Yes**

if yes, whether it is uploaded in the Institutional website: **Yes**

Weblink: https://sdmcet.ac.in

5. Accreditation Details:

NBA : All UG Programs (except Chemical Engineering) are **accredited under Tier-1.**

NAAC: Applied on 24th March 2023 (1st Time)

Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1st	-	-	-	from: to:

6. Date of Establishment of IQAC: DD/MM/YYYY

7. Internal Quality Assurance System.

Quality initiatives by IQAC during the year for promoting quality culture		
Title of the quality initiative by IQAC	**Date & duration**	**Number of participants/beneficiaries**
Internal Audit Teaching & Learning Process/ Administrative & other aspects		
External Audit- Teaching & Learning Process/ Administrative & other aspects		
Other Quality Audit - Performance Based Self-Appraisal- **PBSA**		
Students Feedback		
Accreditation-NBA/NAAC/etc…		
Participation in NIRF		
Regular Meeting of IQAC		

***Note**: Some Quality Assurance initiatives of the institution are:*
(Indicative list)

- *Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback from all stakeholders collected, analyzed and used for improvements*
- *Academic Administrative Audit (AAA) conducted and its follow up action*
- *Participation in NIRF*
- *ISO Certification*
- *NBA etc.*
- *Any other Quality Audit*

8. Provide the list of Special Status conferred by Central/ State Government-

UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/ Department/Faculty	Scheme	Funding agency	Year of award with duration	Amount
Nil				

9. Whether composition of IQAC is as per latest NAAC guidelines? **Yes**
Weblink for latest notification of formation of IQAC: **https://sdmcet.ac.in/iqac/**

10. No. of IQAC meetings held during the year: XX

- The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website? **Yes**
- Weblink for latest minutes of meetings and action taken report: **https://sdmcet.ac.in/iqac/**

11. Whether IQAC received funding from any of the funding agency to support its activities during the year? **No**

If yes, mention the amount: Year:

12. Significant contributions made by IQAC during the current year. (maximum five bullets)

1	**Internal & External Audit** Teaching & Learning Process/ Administrative & other aspects
2	**Other Quality Audit** - Performance Based Self-Appraisal- **PBSA**
3	**Students Feedback**
4	**Accreditation**-NBA/NAAC/etc…
5	**Participation in NIRF**

13. Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year

Plan of Action	Achievements/Outcomes

14. Whether the AQAR was placed before statutory body? Yes (Institutional Performance in its own Format)

Name of the Statutory body: Academic and Governing Council
Date of meeting(s):

- GC: DD-MM-YY
- AC: DD-MM-YY

15. Whether **NAAC/or any other accredited body(s) visited IQAC** or interacted with it to assess the functioning? **Yes (NBA)** Date: DD-MM-YYYY

16. Whether **institutional data submitted to AISHE**: **Yes**

Year: YYYY Date of Submission: DD-MM-YYYY

17. Does the Institution have **Management Information System**? **Yes**

Brief description and a list of modules currently operational.

Module-1: XXXX

Module-2: XXXX

Module-3: XXXX

Module-4: XXXX

Module-5: XXXX

PART-B

CRITERION I – CURRICULAR ASPECTS

1.1 Curriculum Design and Development

1.1.1 Programmes for which syllabus revision was carried out during the Academic year.

Name of programme	Programme Code	Dates of revision
Mechanical Engineering	ME	13.08.2022

1.1.2 **Programmes/ courses focused on employability/ entrepreneurship/ skill development during the Academic year.**

Programme with Code	Date of Introduction	Course with Code	Date of Introduction
Mechanical Engineering (ME)	2018-19	Automation Technologies-value added course	13.08.2022
	2018-19	Basic Engineering Skills Lab -18UESL100	13.08.2022
	2018-19	Computational Methods in Engineering-18PEADC100	13.08.2022
	2018-19	Advanced Fluid Dynamics-18PEADE125	13.08.2022
	2018-19	Design Engineering Lab – I-18PEADL131	13.08.2022
	2018-19	Seminar-18PEADL132	13.08.2022
	2018-19	Automobile System Design-18PEADC200	13.08.2022
	2018-19	Computational Fluid Dynamics-18PEADC201	13.08.2022
	2018-19	Power Plant Design-18PEADE226	13.08.2022
	2018-19	Design Engineering lab -II-18PEADL231	13.08.2022
	2018-19	Seminar-18PEADL232	13.08.2022

	2018-19	Experimental Techniques-18PEADC300	13.08.2022
	2018-19	Design of Heat Exchangers-18PEADE326	13.08.2022
	2018-19	Internship in Industry/R&D organization /Elective 8-18PEADL328	13.08.2022
	2018-19	Project phase 1-18PEADL329	13.08.2022
	2018-19	Project phase-II-18PEADL425	13.08.2022
	2018-19	Machine Drawing-18UMEC304	13.08.2022
	2019-20	Materials Science & Material Testing Lab-18UMEL305	13.08.2022
	2019-20	Foundry & Forging Lab-18UMEL306	13.08.2022
	2019-20	Measurements Lab-18UMEL405	13.08.2022
	2019-20	Thermal Engg. Lab - I-18UMEL406	13.08.2022
	2019-20	Introductory Project-2-18UMEL407	13.08.2022
	2019-20	Management, Economics &Intellectual Property Rights-18UHUC500	13.08.2022
	2020-21	Design of Machine Elements-II-18UMEC501	13.08.2022
	2020-21	Turbo machines-18UMEC502	13.08.2022
	2020-21	Renewable Energy Technology-18UMEC503	13.08.2022
	2020-21	Fundamentals of Automobile Design (Ready Engineer by TATA Technologies) -18UMEE527	13.08.2022
	2020-21	Machine shop Practice-18UMEL504	13.08.2022

	2020-21	Thermal Engg. Lab - II-18UMEL505	13.08.2022
	2020-21	Minor Project-1-18UMEL506	13.08.2022
	2020-21	Soft skills/Aptitude-18UHUL507	13.08.2022
	2020-21	Internal Combustion Engines -18UMEE624	13.08.2022
	2020-21	Tool Design Engg.-18UMEE631	13.08.2022
	2020-21	Advanced Automobile Design18UMEE637 (Ready Engineer by TATA Technologies)	13.08.2022
	2020-21	Total Quality Management-18UMEE642	13.08.2022
	2020-21	Introduction to Scientific programming -18UMEE647	13.08.2022
	2020-21	Computer Aided Engineering Analysis Lab-18UMEL602	13.08.2022
	2020-21	Thermal Engg. Lab - III-18UMEL603	13.08.2022
	2020-21	Minor Project-2-18UMEL604	13.08.2022
	2020-21	Soft skills/Aptitude-18UHUL605	13.08.2022
	2020-21	Research Methodology and IPR -20PRMIC100	13.08.2022
	2020-21	Hybrid Vehicle Technology-18UMEE723	13.08.2022
	2020-21	Computational Fluid Dynamics-18UMEE724	13.08.2022
	2021-22	Introduction to Aircraft Industry & Aircraft Systems-18UMEO731	13.08.2022
	2021-22	Project Management-18UMEO732	13.08.2022

	2021-22	Dynamics Laboratory - 18UMEL702	13.08.2022
	2021-22	Major Project Phase-1- 18UMEL703	13.08.2022
	2021-22	Internship-18UMEL704	13.08.2022
	2021-22	Fluid Power Control- 18UMEC800	13.08.2022
	2021-22	Tribology & Bearing Design- 18UMEE834	13.08.2022
	2021-22	Industry 4.0 & Artificial intelligence -18UMEE837	13.08.2022
	2021-22	Technical Seminar / Independent study- 18UMEL801	13.08.2022
	2021-22	Major Project Phase-2- 18UMEL802	13.08.2022

1.2 Academic Flexibility

1.2.1 New programmes/courses introduced during the Academic year

Programme/Course	Date of introduction
Hybrid Vehicle Technology	13.08.2022
Advanced Heat Transfer	13.08.2022
Heating Ventilation and Air Conditioning	13.08.2022
Battery and Fuel Cell Technology	13.08.2022
Design of Renewable Energy Systems	13.08.2022
Computer Integrated Manufacturin	13.08.2022
Rapid Prototyping And Rapid Tooling	13.08.2022
Design For Manufacturing And Assembly	13.08.2022
Estimation and Costing in Mechanical Engineering	13.08.2022
Mechanics of Composite Materials	13.08.2022
Modeling and Simulation of Dynamic Systems	13.08.2022

Tribology and Bearing Design	13.08.2022
Failure Analysis	13.08.2022
Surface Engineering	13.08.2022
Industry 4.0 & Artificial intelligence	13.08.2022
Scientific Computing	13.08.2022
Mathematical Modeling for Engineering Systems	13.08.2022
Surface Engineering	13.08.2022
Industrial Robotics	13.08.2022
Industry 4.0 & Artificial intelligence	13.08.2022
Continuum Mechanics	13.08.2022
Advanced Finite Element Methods	13.08.2022
Additive Manufacturing Technology	13.08.2022
Industry 4.0 & Artificial intelligence	13.08.2022
Continuum Mechanics	13.08.2022
Advanced Finite Element Methods	13.08.2022
Additive Manufacturing Technology	13.08.2022

1.2.2 Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of Programmes adopting CBCS	**UG**	**PG**	Date of implementation of CBCS / Elective Course System	**UG**	**PG**
Already adopted (mention the year)				**2007**	**2007**

1.3 Curriculum Enrichment

1.3.1 Value-added courses imparting transferable and life skills offered during the year

Value added courses	Date of introduction	Number of students enrolled
Industrail automation, Hydraullics, Pneumatics, Sensorics and PLC	2021-22	440

1.3.2 Field Projects / Internships under taken during the year

Project/Programme Title	No. of students enrolled for Field Projects / Internships
Internship/Project	**149**

1.4 Feedback System

1.4.1 Whether structured feedback received from all the stakeholders.

1) Students	2) Teachers	3) Employers	4) Alumni	5)Parents
Yes/~~No~~	Yes/~~No~~	Yes/~~No~~	Yes/~~No~~	Yes/~~No~~

1.4.2 How the feedback obtained is being analyzed and utilized for overall development of the institution? (Maximum 500 words)

CRITERION II -TEACHING-LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

2.1. 1 Demand Ratio during the year

Name of the Programme	Number of seats available	Number of applications received	Students Enrolled
Mechanical Engineering	**126**	**67**	**67**

2.2 Catering to Student Diversity

2.2.1. Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of full time teachers available in the institution teaching only UG courses	Number of full time teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2022-23	67 + 118 + 135 + 149 = 469	1	26	-	26

2.3 Teaching - Learning Process

2.3.1 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of teachers on roll	Number of teachers using ICT *(LMS, e-Resources)*	ICT tools and resources available	Number of ICT enabled classrooms	Number of smart classrooms	E-resources and techniques used
27			4	1	

2.3.2 Students mentoring system available in the institution? Give details. (maximum 500 words)

In the Mechanical Engineering department, a mentoring system has been introduced for establishing a better and effective relationship between student and teacher. Students are continuously monitored, counseled and guided in academic matters. All faculty members have mentorship for students allotted to them. This is a continuous process till the end of academic career of student.

Following are the aims of student mentorship:

1. To enhance teacher –student relationship.
2. To enhance student's academic performance and attendance.
3. To monitor the student's regularity and discipline.
4. To enable the parents to know about the performance of their wards.

The IQAC takes the initiative of implementing the mentorship of students. They are divided into groups of 15-20 students. Mentors conduct mentee meetings regularly in each semester and update the summary of meeting to the head of the department after collecting all necessary information.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor: Mentee Ratio
469	**26**	**1:18**

2.4 Teacher Profile and Quality

2.4.1 Number of full-time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D.
-	**27**	-	-	**15**

2.4.2 Honors and recognitions received by teachers

(Received awards, recognition, fellowships at State, National, International level from Government, recognized bodies during the year)

Year of award	*Name of full-time teachers receiving awards from state level, national level, international level*	*Designation*	*Name of the award, fellowship, received from Government or recognized bodies*
2022-23	*Dr. K. N Patil*	*Associate Professor*	*CATALYSE from IIT Dharwad*
2022-23	*Dr. S. S. Honnungar*	*Associate Professor*	*CATALYSE from IIT Dharwad*
2022-23	*Prof. S. R. Daboji*	*Assistant Professor*	*CATALYSE from IIT Dharwad*

2.5 Evaluation Process and Reforms

2.5.1 Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
Mechanical Enginering	ME	8/4th year	16/06/23	23/06/23

2.5.2 Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Do not include re-evaluation/ re-totalling

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
--	452	0%

2.6 Student Performance and Learning Outcomes

2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

2.6.2 Pass percentage of students

Programme Code	Programme name	Number of students appeared in the final year examination	Number of students passed in final Semester /year examination	Pass Percentage
ME	Mechanical Engineering	152	122	80.26 %

2.7 Student Satisfaction Survey

2.7.1 Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

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CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 Promotion of Research and Facilities

3.1.1 The institution provides seed money to its teachers for research,

Yes √ No. ..... if yes give details

Name of the teacher getting seed money	The amount of seed money	Year of receiving grant	Duration of the grant
Dr. Kalameshwar N Patil (PI) and Prof. Shankar Daboji (CO PI)	1,00,000	2023	2 years
Dr. P. S. Shivakumar Gouda (P I) and Dr . Abilash Desai (CO-PI)	30,000	2023	2 years
Prof. Jayaram Bhat (P I)	50,000	2023	2 years

3.1.2 Teachers awarded National/International fellowship for advanced studies/ research during the year

	Name of the teacher awarded the fellowship	Name of the Award	Date of Award	Awarding Agency
National	-	-	-	-
International	-	-	-	-

3.2 Resource Mobilization for Research

3.2.1 Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding Agency	Total grant sanctioned	Amount received during the year
Major projects	1 Year	KSCST	12,000/-	12,000/-
Minor Projects				
Interdisciplinary Projects				
Industry sponsored Projects				
Projects sponsored by the University/ College				
Students Research Projects *(other than compulsory by the College)*				
International Projects				
Any other(Specify)				
Total	1		12,000/-	12,000/-

3.2.2 Number of ongoing research projects per teacher funded by government and non-government agencies during the years

Sl. no.	Name of the Principal Investigator/ Co Investigator (if applicable)	Name of the Funding agency	Type (Government/ Non-Government)	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provided (INR in lakhs)	Duration of the project
1	Dr. B. H. Vadavadagi	Vision Group of Science and Technology	Government	Mechanical Engineering	2017-18	40 .00000	2 years
2	Dr. V. S. Yaliwal	Vision Group of Science and Technology	Government	Mechanical Engineering	2019-20	20 .00000	2 years
3	Dr. P. S. Shivakumar Gouda	SRP-SCP/TSP,UAS Dharwad	Government	Mechanical Engineering	2020-21	1.25000	1 years
4	Dr. Jayaraj Y. Kudariyavar / Prof. K. A. Sateesh	Vision Group of Science and Technology/ K-FIST 1	Government	Mechanical Engineering	2021-22	15.00000	2 years
5	Dr. Jayaraj Y. Kudariyavar & Dr. K. N. Patil	VTU Research Grants Scheme	Government	Mechanical Engineering	2021-22	10.00000	2 years
6	Dr. P. S. Shivakumar Gouda, / Dr. I. Sridhar	Aeronautics R&D Board,DRDO	Government	Mechanical Engineering	2022-23	66.58029	3 years

3.3 Innovation Ecosystem

3.3.1 Workshops/Seminars Conducted on Intellectual Property Rights **(IPR)** and Industry-Academia Innovative practices during the year

Title of Workshop/Seminar	Name of the Dept.	Date(s)
-	-	-

3.3.2 Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of the Awardee	Awarding Agency	Date of Award	Category
Development of Solar Mobile Water Heater	*Dr. K. N Patil*	*CATALYSE from IIT Dharwad*	*January 2023*	*Innovation Challenges in Global Centre of Excellence in Affordable & Clean Energy*
Development of solar powered Water Hyacinth Remover	*Dr. S. S. Honnungar*	*CATALYSE from IIT Dharwad*	*January 2023*	*Innovation Challenges in Global Centre of Excellence in Affordable & Clean Energy*
Development of Solar Bubble drier for Large Scale Drying	*Prof.S.R.Daboji*	*CATALYSE from IIT Dharwad*	*January 2023*	*Innovation Challenges in Global Centre of Excellence in Affordable & Clean Energy*

3.3.3 No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Centre	Name	Sponsored by
-	-	-

Name of the Start-up	Nature of Start-up	Date of commencement
-	-	-

3.4 Research Publications and Awards

3.4.1 Ph. Ds awarded during the year

Name of the Department	No. of Ph. Ds Awarded
Mechanical Engineering	01

3.4.2 Research Publications in the Journals notified on UGC website during the year

	Department	No. of Publication	Average Impact Factor, if any
National	ME	03	3.6
International	ME	20	5

3.4.3 Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	No. of publication
Mechanical Engineering	14

3.4.4 Patents published/awarded during the year

Patent Details	Patent status Published/ Filed	Patent Number	Date of Award
Waste Glass FRP composite speed braker	Published	202341017727 A	31/03/2023

3.4.5 Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or Pub Med/ Indian Citation Index

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citations
Effect of flax fiber orientation in carbon-flax fiber composite on tensile and visco elastic behavior	Dr. I. Sridhar	Eng. Res. Express 5 (2023) 025053	June 2023	---	SDMCET, Dharwad	---
Mechanisms for introduction of pseudo ductility in fiber reinforced polymer composites- a review		Frattura ed Integrità Strutturale, 65 (2023)	Feb 2023	---	SDMCET Dharwad	---

		17-31; DOI: 10.3221/IGF-ESIS.65.02				
Micro-structural developmentsDuring high temperature tensileTests of ass 304 sheets used in dairy Industry	Dr. B. H. Vadavadagi	Journal of emerging technology & innovative research (JETIR)	Nov 2022	---	SDMCET Dharwad	---
Crack suppression by natural fiber integration for improved interlaminar fracture toughness in fiber hybrid composites	Dr. P.S. Shivakumar Gouda	Fratturaed Integrità Strutturale	March 2022	03	SDMCET Dharwad	03
Effects of residual stresses on interlaminar radial strength of Glass-Epoxy L-bend composite laminates		Fracture and Structural Integrity	June 2022	01	SDMCET Dharwad	01
On the Residual Stresses and Fracture Toughness of Glass/Carbon Epoxy Composites		MDPI-Materials	October 2022	02	SDMCET Dharwad	02
Mechanical Response of Glass–Epoxy Composites with Graphene Oxide Nanoparticles		MDPI-Materials	November 2022	----	SDMCET Dharwad	----
Influence of matrix modification on interlaminar fracture toughness of glass epoxy laminates using nano and micro fillers		Frattura ed Integrità Strutturale, 65 (2023) 59-73; DOI: 10.3221/IGF-ESIS.65.05	Jan 2023	---	SDMCET Dharwad	---
Effect of flax fiber orientation in carbon-flax fiber composite on tensile and visco elastic behavior		Eng. Res. Express 5 (2023) 025053	Feb 2023	---	SDMCET Dharwad	---
Mechanisms for introduction of pseudo ductility in fiber reinforced polymer		Frattura ed	Feb	---	SDMCET	---

composites- a review		Integrità Strutturale , 65 (2023) 17-31; DOI: 10.3221/IGF-ESIS.65.02	2023		Dharwad	
Effect of MWCNTs nano-additive on a dual-fuel engine characteristics utilizing dairy scum oil methyl ester and producer gas	Prof. Sateesh K.A	Case study in Thermal Engineering_ Elsevier publications_2023	Jan 2023	04	SDMCET Dharwad	04
Analysis of CRDI diesel engine characteristics operated on dual fuel mode fueled with biodiesel-hydrogen enriched producer gas under the single and multi-injection scheme	Dr. V. S. Yaliwal	International journal of hydrogen energy xxx (x x x x) xxx, Elsevier publications	April 2023	01	SDMCET Dharwad	01
Influence of hydrogen injection timing and duration on the combustion and emission characteristics of a diesel engine operating on dual fuel mode using biodiesel of dairy scum oil andproducer gas		International journal of hydrogen energy xxx (x x x x) xxx, Elsevier publications	Feb 2023	03	SDMCET Dharwad	03
Effect of manifold and port injection of hydrogen and exhaust gas recirculation (EGR) in dairy scum biodiesel - low energy content gas-fueled CI engine operated on dual fuel mode		International Journal of Hydrogen Energy, Elsevier publicatio	Feb 2022	03	SDMCET Dharwad	03

		ns_2022				
Effect of manifold injection of hydrogen gas in producer gas and neem biodiesel fueled CRDI dual fuel engine		International Journal of Hydrogen Energy, Elsevier publications	April 2022	---	SDMCET Dharwad	---
Effect of MWCNTs nano-additive on a dual-fuel engine characteristics utilizing dairy scum oil methyl ester and producer gas		Case study in Thermal Engineering_ Elsevier publications_2023	Jan 2023	04	SDMCET Dharwad	04
Experimental investigation on the effect of gaseous fuels energy share on reactivity controlled compression ignition mode of combustion operated with gaseous fuels and liquid fuels		Materials Today, Elsevier publications_2022	Aug 2022	07	SDMCET Dharwad	07
Influence of hydrogen and exhaust gas recirculation on the performance and emission characteristics of a diesel engine operated on dual fuel mode using dairy scum biodiesel and low calorific value gas		Materials Today, Elsevier publications_2022	June 2022	06	SDMCET Dharwad	06
Synthesis, Characterization and Evaluation of δ-Al2O3 Nano-particles Prepared by Chemical Method with Variation of pH	Prof. Vijaykumar R. S.	Journal of nano and electronic physics	July 2022	02	SDMCET Dharwad	02
Influence of confinement on pressure and heat transfer distribution by impinging an air jet from a piccolo tuble on a concave surface	Dr. V. V. Katti	International of Ambient Energy, Talor and Francis publications	JAN 2023	---	SDMCET Dharwad	---
Effect of flax fiber orientation in carbon-flax fiber composite on tensile and visco	Dr. I. Sridhar	Eng. Res. Express 5	June 2023	---	SDMCET,	---

elastic behavior		(2023) 025053			Dharwad	
Mechanisms for introduction of pseudo ductility in fiber reinforced polymer composites- a review		Frattura ed Integrità Strutturale, 65 (2023) 17-31; DOI: 10.3221/IGF-ESIS.65.02	Feb 2023	---	SDMCET Dharwad	---
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Effects of residual stresses on interlaminar radial strength of Glass-Epoxy L-bend composite laminates		Fracture and Structural Integrity	June 2022	01	SDMCET Dharwad	01
On the Residual Stresses and Fracture Toughness of Glass/Carbon Epoxy Composites		MDPI-Materials	October 2022	02	SDMCET Dharwad	02
Mechanical Response of Glass–Epoxy Composites with Graphene Oxide Nanoparticles		MDPI-Materials	November 2022	----	SDMCET Dharwad	----
Influence of matrix modification on interlaminar fracture toughness of glass epoxy laminates using nano and micro fillers		Frattura ed Integrità Strutturale, 65 (2023) 59-73; DOI: 10.3221/IGF-ESIS.65.0	Jan 2023	---	SDMCET Dharwad	---

		5				
Effect of flax fiber orientation in carbon-flax fiber composite on tensile and visco elastic behavior		Eng. Res. Express 5 (2023) 025053	Feb 2023	---	SDMCET Dharwad	---
Mechanisms for introduction of pseudo ductility in fiber reinforced polymer composites- a review		Frattura ed Integrità Strutturale, 65 (2023) 17-31; DOI: 10.3221/IGF-ESIS.65.02	Feb 2023	---	SDMCET Dharwad	---
Effect of MWCNTs nano-additive on a dual-fuel engine characteristics utilizing dairy scum oil methyl ester and producer gas	Prof. Sateesh K.A	Case study in Thermal Engineering_ Elsevier publications_2023	Jan 2023	04	SDMCET Dharwad	04
Analysis of CRDI diesel engine characteristics operated on dual fuel mode fueled with biodiesel-hydrogen enriched producer gas under the single and multi-injection scheme	Dr. V. S. Yaliwal	International journal of hydrogen energy xxx (x x x x) xxx, Elsevier publications	April 2023	01	SDMCET Dharwad	01
Influence of hydrogen injection timing and duration on the combustion and emission characteristics of a diesel engine operating on dual fuel mode using biodiesel of dairy scum oil andproducer gas		International journal of hydrogen energy xxx (x x x x) xxx, Elsevier publicatio	Feb 2023	03	SDMCET Dharwad	03

		ns				
Effect of manifold and port injection of hydrogen and exhaust gas recirculation (EGR) in dairy scum biodiesel - low energy content gas-fueled CI engine operated on dual fuel mode		International Journal of Hydrogen Energy, Elsevier publications_2022	Feb 2022	03	SDMCET Dharwad	03
Effect of manifold injection of hydrogen gas in producer gas and neem biodiesel fueled CRDI dual fuel engine		International Journal of Hydrogen Energy, Elsevier publications	April 2022	---	SDMCET Dharwad	---
Effect of MWCNTs nano-additive on a dual-fuel engine characteristics utilizing dairy scum oil methyl ester and producer gas		Case study in Thermal Engineering_ Elsevier publications_2023	Jan 2023	04	SDMCET Dharwad	04
Experimental investigation on the effect of gaseous fuels energy share on reactivity controlled compression ignition mode of combustion operated with gaseous fuels and liquid fuels		Materials Today, Elsevier publications_2022	Aug 2022	07	SDMCET Dharwad	07
Influence of hydrogen and exhaust gas recirculation on the performance and emission characteristics of a diesel engine operated on dual fuel mode using dairy scum biodiesel and low calorific value gas		Materials Today, Elsevier publications_2022	June 2022	06	SDMCET Dharwad	06
Synthesis, Characterization and Evaluation of δ-Al2O3 Nano-particles Prepared by Chemical Method with Variation of pH	Prof. Vijaykumar R. S.	Journal of nano and electronic physics	July 2022	02	SDMCET Dharwad	02

Influence of confinement on pressure and heat transfer distribution by impinging an air jet from a piccolo tuble on a concave surface	Dr. V. V. Katti	International of Ambient Energy, Talor and Francis publicatio nS	JAN 2023	---	SDMCE T Dharwad	---

3.4.6 h-index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the paper	Name of the author	Title of the journal	Year of publicatio n	h-index	Number of citations excluding self citations	Institutional affiliation as mentioned in the publication
Effect of flax fiber orientation in carbon-flax fiber composite on tensile and visco elastic behavior	Dr. I. Sridhar	Eng. Res. Express 5, 025053	June 2023	3	29	SDMCET, Dharwad
Mechanisms for introduction of pseudo ductility in fiber reinforced polymer composites- a review	Dr. I. Sridhar	Frattura ed Integrità Strutturale, 65 (2023) 17-31; DOI: 10.3221/IGF-ESIS.65.02	Feb 2023	3	29	SDMCET
An innovative Humanoid assistant for performing simple & repetitive tasks	Dr. Gururaj M Gadad	Grenze international journal of Engineering and Technology	Jan 2022	NA	NA	SDMCET
A review of unrolled arecanut drying process and its correlation with mechanical properties	Dr. S. S. Honnungar.	Materials today proceedings, Elsevier	Jan 2022	2	9	SDMCET
Microstructural developments During high temperature tensile Tests of ass 304 sheets used in dairy Industry	Dr. B. H. Vadavadagi	Journal of emerging technology & innovative research (JETIR)	Nov 2022	7	167	SDMCET
Crack suppression by natural fiber integration for improved interlaminar fracture toughness in fiber hybrid composites	Dr. P.S. Shivakumar Gouda	Fratturaed Integrità Strutturale	March 2022	12	455	SDMCET
Effects of residual stresses on interlaminar radial strength of Glass- Epoxy L-bend composite	Dr. P.S. Shivakumar	Fracture and Structural	June 2022	12	455	SDMCET

laminates	Gouda	Integrity				
On the Residual Stresses and Fracture Toughness of Glass/Carbon Epoxy Composites	Dr. P.S. Shivakumar Gouda	MDPI- Materials	October 2022	12	455	SDMCET
Mechanical Response of Glass–Epoxy Composites with Graphene Oxide Nanoparticles	Dr. P.S. Shivakumar Gouda	MDPI- Materials	November 2022	12	455	SDMCET
Influence of matrix modification on interlaminar fracture toughness of glass epoxy laminates using nano and micro fillers	Dr. P.S. Shivakumar Gouda	Frattura ed Integrità Strutturale, 65 (2023) 59-73; DOI: 10.3221/IGF-ESIS.65.05	Jan 2023	12	455	SDMCET
Effect of flax fiber orientation in carbon-flax fiber composite on tensile and visco elastic behavior	Dr. P.S. Shivakumar Gouda	Eng. Res. Express 5 (2023) 025053	Feb 2023	12	455	SDMCET
Mechanisms for introduction of pseudo ductility in fiber reinforced polymer composites- a review	Dr. P.S. Shivakumar Gouda	Frattura ed Integrità Strutturale, 65 (2023) 17-31; DOI: 10.3221/IGF-ESIS.65.02	Feb 2023	12	455	SDMCET
Effect of MWCNTs nano-additive on a dual-fuel engine characteristics utilizing dairy scum oil methyl ester and producer gas	Prof. Sateesh K.A	Case study in Thermal Engineering_ Elsevier publications_2023	Jan 2023	3	56	SDMCET
Influence of hydrogen and exhaust gas recirculation on the performance and emission characteristics of a diesel engine operated on dual fuel mode using dairy scum biodiesel and low calorific value gas	Prof. Sateesh K.A	Materials Today, Elsevier publications_2022	April 2022	3	56	SDMCET
Utilization of biodiesel/Al2O3 nanoparticles for combustion behavior enhancement of a diesel engine operated on dual fuel mode	Prof. Sateesh K.A	Thermal Analysis and Calorimetry, Springer Publications.	Feb 2022	3	56	SDMCET
Analysis of CRDI diesel engine characteristics operated on dual fuel mode fueled with biodiesel-hydrogen enriched	Dr. V. S. Yaliwal	I n t e r n a t i o n a l journal o f hydrogen energy xxx (x x x x) xxx, Elsevier	April 2023	21	1505	SDMCET

producer gas under the single and multi-injection scheme		publications				
Influence of hydrogen injection timing and duration on the combustion and emission characteristics of a diesel engine operating on dual fuel mode using biodiesel of dairy scum oil and producer gas	Dr. V. S. Yaliwal	International journal of hydrogen energy xxx (x x x x) xxx, Elsevier publications	March 2023	21	1505	SDMCET
Effect of manifold and port injection of hydrogen and exhaust gas recirculation (EGR) in dairy scum biodiesel - low energy content gas-fueled CI engine operated on dual fuel mode	Dr. V. S. Yaliwal	International Journal of Hydrogen Energy, Elsevier publications_2022	Feb 2022	21	1505	SDMCET
Effect of manifold injection of hydrogen gas in producer gas and neem biodiesel fueled CRDI dual fuel engine	Dr. V. S. Yaliwal	International Journal of Hydrogen Energy, Elsevier publications_2022	April 2022	21	1505	SDMCET
Effect of MWCNTs nano-additive on a dual-fuel engine characteristics utilizing dairy scum oil methyl ester and producer gas	Dr. V. S. Yaliwal	Case study in Thermal Engineering_ Elsevier publications_2023	Jan 2023	21	1505	SDMCET
Utilization of biodiesel/Al2O3 nanoparticles for combustion behavior enhancement of a diesel engine operated on dual fuel mode	Dr. V. S. Yaliwal	Thermal Analysis and Calorimetry, Springer Publications.	Feb 2022	21	1505	SDMCET
Experimental Investigation on RCCI Engine Operated with Dairy Scum OilMethyl Ester and Producer Gas	Dr. V. S. Yaliwal	Environment and Sustainable Development, Springer Publications	Feb 2022	21	1505	SDMCET
Experimental investigation on the effect of gaseous fuels energy share on reactivity controlled compression ignition mode of combustion operated with gaseous fuels and liquid fuels	Dr. V. S. Yaliwal	Materials Today, Elsevier publications_2022	Aug 2022	21	1505	SDMCET
Design optimization of strain gauge mounting cross section length of strain gauge balance component for wind tunnel application	Dr. V. S. Yaliwal	Materials Today, Elsevier publications_2022	Aug 2022	21	1505	SDMCET

Effect of injection timing on the performance of Ceiba Pentandra biodiesel powered dual fuel	Dr. V. S. Yaliwal	Materials Today, Elsevier publications_2022	Aug 2022	21	1505	SDMCET
Influence of hydrogen and exhaust gas recirculation on the performance and emission characteristics of a diesel engine operated on dual fuel mode using dairy scum biodiesel and low calorific value gas	Dr. V. S. Yaliwal	Materials Today, Elsevier publications_2022	April 2022	21	1505	SDMCET
Synthesis, Characterization and Evaluation of δ-Al2O3 Nano-particles Prepared by Chemical Method with Variation of pH	Prof. Vijaykumar R. S.	Journal of nano and electronic physics	June 2022	NA		SDMCET
Influence of synthetic air jet temperature on local heat transfer characteristics of synthetic air jet impingement	Dr. V. V. Katti	International Communications in Heat and Mass Transfer, Elsevier publications	Jan 2022	13	1179	SDMCET

3.4.7 Faculty participation in Seminars/Conferences and Symposia during the year :

No. of Faculty	International level	National level	State level	Local level
Attended Seminars/ Workshops	3	10	3	0
Presented papers				
Resource Persons				

3.5 Consultancy

3.5.1 Revenue generated from Consultancy during the year

Name of the Consultant(s) department	Name of Consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
ME-SDMCET	Crushing strength test for dental tooth and it failure analysis	SDM Dental Hospital, Dharwad	5,900.00
	Bond strength of metal and ceramic tooth bracket in varying salivary pH	SDM Dental Hospital, Dharwad	9,912.00
	Development Testing and analysis of Flax fiber composites	UAS Dharwad	69,030.000
	Wear and Frictional properties of AL/TiC	TTK College of Engg, Warnagara, MH	5,192.00

	metal matrix Composite		
	Wear and Frictional properties of AL/TiC metal matrix Composite	TTK College of Engg, Warnagara, MH	11,800.00
	Shear bond strength of ceramic brackets for orthodontics	SDM Dental Hospital, Dharwad	7,080.00
	Flexural and Bending strength failure analysis of SS/NiTi/Cu-NiTi for orthodontics arch wires	SDM Dental Hospital, Dharwad	11,800.00
	Failure analysis of shear bond strength of Zirconia reinforced glass ionomer cement bracket for orthodontics	SDM Dental Hospital, Dharwad	3,776.00
	Tensile test and failure analysis of Aluminium 1625/1610	Oerlikon Blazers Coatings India Ltd, Bengaluru	708.00
	Wear test on pin on disk for aluminum 2024 MMC	VDIT, Haliyal	944.00
		Total	**1,26,142.00**

3.5.2 Revenue generated from Corporate Training by the institution during the year

Name of the Consultant(s) & Department	Title of the Programme	Agency seeking training	Revenue generated (amount in rupees)	Number of trainees
Dana Anand India Pvt. Ltd (Spicer), Village Jodalli, Kalaghatagi Road, Dharwad 580114	**Practical Training classes on CNC operations**	Employees of Dana Anand India Pvt. Ltd (Spicer),	**Rs.70,800/-**	**12**

3.6 Extension Activities

3.6.1 Number of extension and outreach programmes conducted in collaboration with industry, community and Non-Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the Activities	Organising unit/ agency/ collaborating agency	Number of teachers **co-ordinated** in such activities	Number of students participated in such activities
1	NSS	**1**	**60**

3.6.2 Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the Activity	Award/recognition	Awarding bodies	No. of Students benefited
-	-	-	-

3.6.3 Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/ agency/ collaborating agency	Name of the activity	Number of teachers **co-ordinated** such activities	Number of students participated in such activities
	-	-	-	-

3.7 Collaborations

3.7.1 Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of Activity	Participant	Source of financial support	Duration
-	-	-	-

3.7.2 Linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration **(From-To)**	participant

3.7.3 MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose and Activities	Number of **students/teachers participated under MoUs**
---	----	-----	**----**

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

4.1.1 Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development

4.1.2 Details of augmentation in infrastructure facilities during the year

Facilities	Existing	Newly added
Campus area		
Class rooms	8	
Laboratories	10	
Seminar Halls	1	
Classrooms with LCD facilities	7	
Classrooms with Wi-Fi/ LAN	-	
Seminar halls with ICT facilities	1	
Video Centre		
No. of important equipments purchased (≥ 1-0 lakh) during the current year.	1	
Value of the equipment purchased during the year (Rs. in Lakhs)	5,55,072/-	
Others		

4.2 Library as a Learning Resource

4.2.1 **Library is automated {Integrated Library Management System (ILMS)}**

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation

4.2.1 Library Services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	3117					
Reference Books						
e-Books	24735					
Journals	14					
e-Journals	12293					
Digital Database						
CD & Video						
Library automation						
Weeding (Hard & Soft)						
Others (specify)						

4.2.2 E-content developed by teachers such as: e-PG-Pathshala, CEC (under e-PG-Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the teacher	Name of the module	Platform on which module is developed	Date of launching e - content
-	-	-	-

4.3 IT Infrastructure

4.3.1 Technology Upgradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Available band width (MGBPS)	Others
Existing									
Added									
Total									

4.3.2 B***andwidth available of internet connection in the Institution (Leased line)***

500 MBPS /GBPS

4.3.3 Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility

4.4 Maintenance of Campus Infrastructure

4.4.1 Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities

4.4.2 Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website)

CRITERION V - STUDENT SUPPORT AND PROGRESSION

5.1 Student Support

5.1.1 Scholarships and Financial Support

	Name /Title of the scheme	Number of students	Amount in Rupees
Financial support from institution			
Financial support from other sources			
a) National			
b) International			

5.1.2 Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved

5.1.3 Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students by Guidance for Competitive examination	Number of benefited students by Career Counselling activities	Number of students who have passed in the competitive exam	Number of students placed

5.1.4 Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	No. of grievances redressed	Average number of days for grievance redressal

5.2 Student Progression

5.2.1 Details of campus placement during the year

On campus		**Off Campus**	
Name of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
Allegion Inda		2	
Cognizant-Genc		13	
Daimler Truck Innovation Centre India		4	
Tally Solutions Pvt. Ltd.		1	
Tata Elxsi		3	

RSB Global (I) Pvt Ltd, Dharwad	15		03
Vitesco Technologies India Pvt Ltd		2	
Epsilon Carbon Pvt Ltd		3	
Quest Global		11	
SLK Software		1	
JSW		2	
Sharp Software India Pvt. Ltd.		1	
Mercedes-Benz Research and Development India Pvt. Ltd.		1	
IndianOil-Adani Gas Pvt Ltd		3	
TATA Consultancy Services Limited (TCSL).		1	
Actalent (Formerly known as EASi)		1	
VST Tillers Tractors Limited		5	
Mukand Sumi Special Steel Limited		1	
Shinryo Suvidha Engineers		1	
Technologics Global Pvt Ltd		1	
Toyota Kirloskar Motor Pvt. Ltd. [TKM]		2	
Property Pistol (Domestic)		3	
Aakash Byju's		2	
Emertxe Information Technologies		1	

Dravin Engineering Private Limited		1	
YantraLive		1	
Unwil Wires & Engineers Pvt Ltd, Koppal	05		03

5.2.2 Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of Programme admitted to
	6	**B.E. (Mechanical Engineering)**	**Michigan University, USA**	**Masters Program**	**B.E. (Mechanical Engineering)**
		B.E. (Mechanical Engineering)	**ECU University, Australia**	**Masters Program**	**B.E. (Mechanical Engineering)**
		B.E. (Mechanical Engineering)	**KLETU, Hubbali**	**Masters Program**	**B.E. (Mechanical Engineering)**
		B.E. (Mechanical Engineering)	**SRH Berlin University**	**Masters Program**	**B.E. (Mechanical Engineering)**
		B.E. (Mechanical Engineering)	**RVCE, Bangalore**	**Masters Program**	**B.E. (Mechanical Engineering)**
		B.E. (Mechanical Engineering)	**University of Arizona**	**Masters Program**	**B.E. (Mechanical Engineering)**

5.2.3Students qualifying in state/ national/ international level examinations during the year (eg: NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	No. of Students **selected/ qualifying**	**Registration number/roll number for the exam**
NET		
SET		
SLET		
GATE	4	XE23S51223063, 30589, ME22S71225073
GMAT		
CAT		
GRE		
TOFEL		
Civil Services		
State Government Services		
Any Other		

5.2.4 Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Participants

5.3 Student Participation and Activities

5.3.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/ medal	National/ International	Sports	Cultural	Student ID number	Name of the student

5.3.2 Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

5.4 Alumni Engagement

5.4.1 Whether the institution has registered Alumni Association? Yes/~~No~~, if yes give details (maximum 500 words):

Alumni Registered members numbers branch wise ----------18445

Contribution by Alumni last year Rs. 8lakhs & Last 3 years -------Rs. 26lakhs

No of Alumni meet last year 4 & last 3 years ----------10

The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and other support services

The Alumni Association of the college has been in existence since 2003. The college is in existence for more than four decades and has more than 10000 alumni who are now occupying significant positions in India and abroad.

The students passing out of the college are automatically made members of Alumni Association by paying a onetime fee. The Association has around 6000 members on its rolls. It conducts an Alumni meet annually in different parts of the country like Mumbai, Bengaluru, Pune, Delhi, Nashik, Mangaluru etc.

The Association provides scholarship to poor, meritorious students, runs a book bank and provides technical support to academics and also placement assistance. The two major projects carried out by the Association include initiation of construction of a guest house and an indoor sports complex both of which have been built with alumni assistance.

5.4.2 No. of registered Alumni: 18445

5.4.3 Alumni contribution during the year (in Rupees) **:** Rs. 26lakhs

5.4.4 Meetings/activities organized by Alumni Association **:** **10**

CRITERION VI –GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 Mention two practices of decentralization and participative management during the last year (maximum 500 words)

6.1.2 Does the institution have a Management Information System (MIS)?
Yes/~~No/Partial~~:

6.2 Strategy Development and Deployment

6.2.1 Quality improvement strategies adopted by the institution for each of the following (with in 100 words each**):**

- ❖ Curriculum Development
- ❖ Teaching and Learning
- ❖ Examination and Evaluation
- ❖ Research and Development
- ❖ Library, ICT and Physical Infrastructure / Instrumentation
- ❖ Human Resource Management
- ❖ Industry Interaction / Collaboration
- ❖ Admission of Students

6.2.2 : Implementation of e-governance in areas of operations:

- ❖ Planning and Development
- ❖ Administration
- ❖ Finance and Accounts
- ❖ Student Admission and Support
- ❖ Examination

6.3 Faculty Empowerment Strategies

6.3.1 Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
-	-	-	-	-

6.3.2 Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme organized for teaching staff	Title of the administrative training programme organized for non-teaching staff	Dates (from-to)	-	No. of participants (Non-teaching staff)

6.3.3 No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development	Number of teachers who attended	Date and Duration

programme		(from – to)

6.3.4 Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Fulltime	Permanent	Fulltime

6.3.5 Welfare schemes for

Teaching	
Non teaching	
Students	

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly (with in 100 words each**)**

6.4.2 Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies/ individuals	Funds/ Grants received in Rs.	Purpose

6.4.2 Total corpus fund generated

6.5 Internal Quality Assurance System

6.5.1 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic				
Administrative				

6.5.2 Activities and support from the Parent – Teacher Association (at least three)

6.5.3 Development programmes for support staff (at least three)

6.5.4 Post Accreditation initiative(s) (mention at least three)

6.5.5

a. Submission of Data for AISHE portal : (Yes /No)
b. Participation in NIRF : (Yes /No)
c. ISO Certification : (Yes /No)
d. NBA or any other quality audit : (Yes /No)

6.5.6 Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting activity	Duration (from-----to-----)	Number of participants

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period **(from-to)**	Participants	
		Female	Male

7.1.2 Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:
Percentage of power requirement of the College met by the renewable energy sources

7.1.3 Differently abled (Divyangjan) friendliness

Items Facilities	Yes/No	No. of Beneficiaries
Physical facilities		
Provision for lift		
Ramp/ Rails		
Braille Software/facilities		
Rest Rooms		
Scribes for examination		
Special skill development for differently abled students		
Any other similar facility		

7.1.4 Inclusion and Situatedness

Enlist most important initiatives taken to address locational advantages and disadvantages during the year

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date and duration of the initiative	Name of the initiative	Issues addressed	Number of participating students and staff

7.1.5 Human Values and Professional Ethics

Code of conduct (handbooks) for various stakeholders

Title	Date of Publication	Follow up (maximum 100 words each)

7.1.6 Activities conducted for promotion of universal Values and Ethics

Activity	Duration (from-------to-------)	Number of participants

7.1.7 Initiatives taken by the institution to make the campus eco-friendly (at least five)

7.2 Best Practices

Describe at least two institutional best practices
Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

7.3 Institutional Distinctiveness

Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust
Provide the weblink of the institution in not more than 500 words

SUMMARY OF NOTEWORTHY OUTCOMES

Year 2022-23
[July to June]

Department of:

Sl. No	Outcome	Baseline 2022 Jan-Dec	Current 2022-23 Jan-June 2022 July22- June23
1	Indexed Journal Publications	10	**11+20=31**
2	Other – Paper/article Publications	10	**2+3=5**
3	Book Publications	10	**2+1=3**
4	Book Chapter Publications	10	**2+3=5**
5	IPR Publications	10	**01**
6	IPR Granted	10	**0**
7	No. of Funded Projects sanctioned		**2+1=3**
8	Total Funds Received.		**30+35=65**
9	Total Projects- Ongoing		**5+2=7**
10	% Of Placement		**54.1**
11	No. of Offers		**122+78=200**
12	Highest Package L/A		**11.5 L**
13	Lowest Package L/A		**2.7 L**
14	% - of Students Graduated		**93.75**
15	No. of startups		**0**
16	Consultancy **Total Number:** **IRG generated:**		**5+6=11** **1.01834+0.2478=1.26 Lac**
17	No. of Conferences Conducted		**1+1=2**
18	No. of Workshops/ Seminar/ conducted		**5+15=20**
19	No. of Workshops/ Seminar/ conferences attended (Faculty + Students= Total)		**4+2=6**

20	No. of awards / recognitions received (Faculty + Students + dept/Institution= Total)		**4+3=7**
21	No. of New Infrastructure / Programs/space/laboratories created		**4+0=4**
22	No. of networking/society connect programs conducted.		**1+1=2**
23	No. of learning materials created and published		**-**
24	No. of new process/procedures added.		**0+1=1**
25	No. of products/ Applications created		**-**
26	Budget Sanctioned In Lakhs of rupees	**Apr-2021 to March 2022**	**Apr-2022 to March 2023** **22.17 Lac**
27	Total Expenditure In Lakhs of rupees	**Apr-2021 to March 2022**	**Apr-2022 to March 2023** **11.13 Lac**
28	Any other note-worthy events/activities		**-**

Note: Details of all these claims mentioned in the above table is to be given in the next section of this report under the title "**strategic plan implementation report**" along with evidences.

29	**Best Practice- 1** Title: Performance Enhancement Measure Author(s): All Faculties Scope: Performance improvement in SEE of all students Objectives: 1. To make students acquire thorough understanding of subject courses 2. To make students to perform better in their exam 3. To put students at ease in learning complex things Methodology / Procedure: 1.Course instructor will plan PEM components & implementation 2. The plan includes industry tours, lab components, DIY project, demonstrations using teaching aids for better learning experience 3. Impact analysis will be made based on their IA & SEE performance 4.Special monitoring will be made for slow learners Outcomes: 1. Knowledge enhancement/ Professional competency 2. Enhancement in success rate in exams 3. Improvement in eligibility band for better placement & higher study

	Cost: NIl Conclusion / Impact Analysis: 1. PEM is mandatory for each course 2.PEM has improved IA/SEE performance of each course 3. PEM will accelerate the learning capability through industry experience
30	**Best Practice- 2** Title: Showing evaluated answer scripts of SEE Author(s): All faculty Scope: All semester students Objectives: 1. To have transparency in evaluation system 2. To create ambience for understanding the students about the wrong & right answers Methodology / Procedure: 1.After the completion of the evaluation of answer scripts in each courses schedule is made for showing answer scripts 2. The students will be allowed to go through the answer scripts 3. Model answer solution and scheme of evaluation will be given for reference 4. The result declaration will be done after some time Outcomes: 1. High confidence in the evaluation due to transperency

	2. Timely decisions for reevaluation by the students 3. Lesser grievances Cost: NIL Conclusion / Impact Analysis: there will be more intangible benefits like 1. Increased confidence in the evaluation system due to autonomy system. 2. Better trust by the stake holders. 3. Better student-faculty relationships.

FUTURE PLANS OF ACTION FOR NEXT ACADEMIC YEAR: 2023-24

1. Introducing **trending programs** in CSE related domain.
2. Establishing **Recording studio** to create in-house high quality learning materials for students.
3. Building an independent **Class Room Complex**.
4. Greater **autonomy for faculty** members suggested in NEP-2020.
5. Wider and effective HR scheme for **faculty welfare and support systems.**
6. Improved **Industry readiness** of students.
7. **Accreditation** for all PG program.
8. Improving **National level ranking** (NIRF)
9. Building **data center** for quick access and enhancing efficiency of the system.
10. Improved and wider scope of **MIS operations** and **IT support**
11. To be **ready for NEP-2020:** Credit transfers/multi entry and multi exit as per directions of Govt. of Karnataka / VTU
12. To become **Technological University**.

Name & Signature of the Coordinator-IQAC *Name & Signature of the Chairperson/Head*

Date: 01-07-2023

_____***_____

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

Department of MechanicalEngineering

STRATEGIC PLAN IMPLEMENTATION REPORT

Audit Reportof Strategic Plan for the Year 2022

Date :20/01/2023

Reference: 5 Year Plan 2022-2026

INTRODUCTION:

The purpose of this document is to record the 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 indicated 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:

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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.**	**Activity-1:** • Conduct dept. meeting to discuss on the revision of course outcomes and its mapping to incorporate higher order thinking skills as required by NEP **Outcome/Target:** 1. Revised course outcomes incorporatingappropriate critical thinking levels 2. Change in mapping levels of COs with POs 3. Revised PAM **In-charge Faculty:** Prof. S. R. Daboji	Revision of COs and mapping levels for the following subjects have been undertaken: • Materials science • Metrology and Measurements • Foundy and forging Laboratory • M & M laboratory 3. Partial PAM for the above subjects is ready	It is continuous process as NEP syllabus under implementation. Refer- Proceedings of BoS meeting held on 13/08/2022	

	Re-establishing the relevance of Program Articulation Matrix-PAM	**Activity-1:** 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. **Outcome/Target:** 1. New program articulation matrix with appropriate mapping levels. 2. No. of subjects addressing each POs **In-charge Faculty:** Prof. S. R. Daboji Prof. Jayaram Bhat	• PAM for 2018 scheme is completed • 2021 scheme syllabus up to 4thsemis completed • PO attainment has been completed		Actin plan for PO attainment has been intiated
	Conducting internal and External Audits	**Activity-1:** Conduction of internal and external audit. **Outcome/Target:** Internal audit: 02 External audit:01 **In-charge Faculty:**	**Internal audit**iscarried out, the members were 1)Prof.Suneel Joshi, and 2. Prof.V.R.Sheelvant, Dept. of Electrical and electronics, SDMCET Dharwad visited the department and carried out internal audit on 07/09/2022. All course files were checked and comments were reported to respective faculty members for corrections **External Audit** was carried out on 10/06/2022 in online mode , The auditor was, Prof. G.B.VeereshkumarHoD , Mech. NIT Andhra pradesh the auditor suggested implimemntation of software components in theory subjects wherever possible. Also stressed the incorporation of DIY projects		

		Dr. S. S. Honnungar	

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]
F2 **M1,M2,M4** **Exam Results**	**Bridge Courses** For all and specific to **Slow learners** & **Learning Extensions**	**Activity-1:** • Extra classes for lateral entry students will be taken to make up the syllabus. • Mentoring of slow learners. **Outcome/Target:** 1. Improvement in SEE results 2. Support for slow learners **In-charge Faculty:** Prof. S. I. Akki	-No. of lateral entry students-64 -Average of 20 classes per subject was conducted - Support for slow learners based on IA performance (below 9 mark /20)has been implemented Following are the measures taken for slow learners . Tutorial classes ,Assignemnts, group activity, solving SEE QP and it observed from the 3rd IA result that substantial no of students improved and scored above 25/50 marks.		

	Tutorials for complex courses	**Activity-1:** Tutorials for analytical subjects recommended by DUGC will be handled and will be shown in the timetable **Outcome/Target:** 1. Imrovement in student performance **In-charge Faculty:** Prof. S. I. Akki	Tutorial classes implemented as per the time table for thefollowing subjects: Fluid Mechanics, Heat Transfer, FEM, Design of Machine Elements-1, Applied Thermodynamics, Engineering thermodynamics Turbo machines , Mechanics of materials , Theory of machines and design of machine elements II, control engg, Mechainical vibrations -- --
	Strengthening Experiential Learning component	**Activity-1:** Performance enhancing measures (PEM) incorporating experiential learning for all courses handled during the semester will implemented. **Outcome/Target:** 1. Improved understanding of the subject. **In-charge Faculty:** Dr. G. M. Gadad	PEM implemented for each subject in current semester, the measures are : Industry visit, demonstartions of equipments/instruments related to subject.
	Industry Connectivity for Class room	**Activity-1** • Two Invited guest lectures from industrial experts for industrial connectivity • Two Industry based projects will be offered to the students	Three industrial tours and Four guest lectures has been undertaken. 1. Auqus Cluster Belagavi – 35 students of VII sem Mechanical engg, Dr.S.S.Honnungar and Dr.K.N.Patil , visted the cluster of industries on 09/12/2022. Aerospace component manufacturing plants, chemical treatment plant , NIRF Toy manufacturing plant **total six industries** 2. Supa dam /hydel power station –50 students of IV and VI

		• Organizing industrial tours two per academic year. **Outcome/Target:** • Better exposure to students in line with industrial trends **In-charge Faculty:** Dr. J. Y. Kudariyavar-for industrial tours Prof. M. K. Marikatti-for CIII related activities Prof. V P Pandarikar- for industrial projects and electives	sem, Mechanical Engg, 13/06/2022, staff; Dr.K.N.Patil and Jayaram Bhat 3. NiraniSugersLtd, Mudhol ; 33 students of of VII sem Mechanical engg, staff ; Prof.M.K.Marikatti and Prof.S.G.Hungund, visted on 24/01/2022 **Guest Lecture** 1. Mr.Sanjay Kulkarni, CIMPA UK , on 04/04/2022 topic is "Industry 4." For VII sem A/B around 80 students were present . 2. V.Shekhar, Entrepreneuship opportunities in Engg. On 19/04/22, for VI sem A/B. 90 students were attended 3. Mr. Mahesh Hosur on"Graduate research and education opportunities at Texas A&M University Kingsville" 110 students of civil and mechniaclengg, are attended date 10/09/2022 4. Dr.Dheeraj Patil, HoD, Mech.Engg, IIT Dharwad , topic "Innovation in clean and renewable energy sources " on 10/09/2022.60 students of mechanical engg were attended

ocus [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	**Activity-1:** A dept. committee including an external expert will be formed for assessment of research proposal quality and their relevance. **Outcome/Target:** 1. Improved awareness in writing research proposals **In-charge Faculty:** Dr. P. S. Shivakumar gouda	Process to be initiated with principal approval by next month		
	IPR: Copyrights and Patents **Paper** Publications	**Activity-1:** • Paper publication in peer reviewed journals • Funded projects are to be applied by each eligible faculty members. **Outcome/Target:**	- 27 peer reviewed papers published in reputed journal with scopus/sci index Q1-11, Q2-10, Q3-01, Q4 -01, non indexed – 04. funded project - 03 1.VTU project - Novel Approach for cooling Electronic Devices Using Impingment of Pulsating jet, PI Dr/.Jayaraj Y.K Co Pi, Dr.K.N.Patil		

	Funded Projects	1. Enhancement of college ranking by external agencies. 2. Improvement in infrastructure and research ambience. **In-charge Faculty:** Dr. V. S. Yaliwal	Amount sanctioned =10lakh 2.ARDB, Project "Investigation on interlaminar Crack suppression in Fiber and Matrix hydrid Polymer composite for Aerospace structural Components" PI- Dr.P.S.Shivakumargouda and CO PI- Dr.I Sridhar Total amount sanctioned =66.58 lakh 3.VGST- Investigation on thermal Hybrid behavier of Inclined Natural circulation loop , PI Dr/.Jayaraj Y.K CoPi, Prof.K.A.Sateesh, amount sanctioned 15 lakhs **Total funding sanctioned is 91.58 lakhs**

Focus	**Perspective/ Key Areas**	**Year 2022**			
		PLANNING	**Observations / Remarks by Auditors**		
			Outcomes achieved [4]	**Reasons for any deviation** [5]	**Further action plan, if applicable** [6]
F4 **M2 & M5** **Value additions**	**Learning for Placement**	**Activity-1:** Four value added training programs facilitated by CIII will be conducted. **Outcome/Target:** 1. Enhanced employability 2. Improvement in engineering skills.	Four training programson C Programming , MATlab, MSC Apex and ADAMS and CFD has been conducted **C- Programming for non IT students** –Mr.Vijaymahantesh, Cleverbit solutions Bengaluru conducted training for 30 hrs, 120 students : dates 09/03/2022 to 20/03/2022 **MAT Lab-**Dr.SinddlingeshNavalgund of ECE dept SDMET conducted training on MAT lab for 30 hrs 60 students : dates 30/11/2022 to 09/12/2022 **CFD-**Mr.Amogh, Alumni of Mech. Dept, SDMCET conducted training on CFD for VII semMech.Engg Students for 30 hrs, 120 students of VII sem: dates 03.01.2022 to 19.01.2022		

		In-charge Faculty: Dr. V. S. Kamate	**MSC Apex and ADAMS -**Mr.Manohar , ALTEM Technologies Bengaluru has Given two day training for V and VII sem. Mechanical Engg during 29th and 30th Nov 2022, 110 students were benifitted.
	Soft Skills	**Activity-1:** One Soft skill training program will be conducted by CIII centrally. **Outcome/Target:** 1. Improved communication and HR skills **In-charge Faculty:** Prof. K A Sateesh	**APTITUDE training conducted by CIII** 1. Miss. Ragini , Innovations Unlimted Ltd, Bengaluru, 120 of Mechanical Students VIsem, 20 hours training, during 17th to 19th June.2022 2. Miss. Ragini , Innovations Unlimted Ltd, Bengaluru, 120 of Mechanical Students VII sem, 20 hours training, during 24th, to 26th Sept..2022 3. Miss. Ragini , Innovations Unlimted Ltd, Bengaluru, 120 of Mechanical Students V sem, 20 hours training, during 16ththh, to 17th Dec..2022
	Discussion Group	**Activity-1:** One group discussion activity will be conducted by the department placement coordinators in consultation with CIII, **Outcome/Target:** 1. Improvement in ability to work in teams 2. Better inter personal communication skills.	1. Praveen Ambannanavar Alumni SDMCET, Topic; "Engineering and Interview Preperation " 21/10/2022 nearly 100 students of VII sem Mech. are attended.

		In-charge Faculty: Dr. V. S. Kamate			
	English Communication Skills	**Activity-1:** English communication skill training program will be taken up centrally. **Outcome/Target:** 1. One program per year 2. Improved English commmunicaiton skills. **In-charge Faculty:** Prof. S. G. Hunugund	To be conducted in consultation with dept of Humanities		
	Use of ICT Information Communication Technology	**Activity-1:** Faculty and students are trained to use open source/visualization tools. **Outcome/Target:** 1. Better presentation tools for teaching and learning. **In-charge Faculty:** Prof. S. C. Galveen	--	--	Further training programs on use of ICT will be undertaken in the coming semester.

Focus	Year 2022				
	Perspective/ Key Areas	PLANNING	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:** Two community oriented activities are planned. **Outcome/Target:** -Owning social responsibility by the students **In-charge Faculty:** Prof. M. K. Marikatti	• Lab visit and demo for Govt. high school students has been carried out on 28/11/2022 and 29/11/2022 • Open house project exhibition for PUC science students of nearby colleges date 20/07/2022 , 200 students		
	Learning Programs through workshops	**Activity-1:** Two workshops are plannedon socialyrelevant activites/projects. **Outcome/Target:** -Students engage in social relevant projects / activites	128 no of students participated in social activities as a part of AICTE activity --actities under taken by Mechanical Students are : • Teaching in Govt School , • COVID awareness , • Life for limb • Wild life awareness • Yoga and fitness awareness • Swachh Bharat • Digital and skill India		

		In-charge Faculty: Dr. S. R. Joshi	• Blood donation camp • Tourism promotion innovative approaches		
	Technology Transfer Programs	**Activity-1:** Technology transfer programs are planned. **Outcome/Target:** 1. Technical solutions for end users of society **In-charge Faculty:** Dr. B. H. Vadavadagi	--	--	Technology transfer programs are planned from the next semester.

Focus	**Year 2022**				
	Perspective/ Key Areas	**PLANNING**	**Observations / Remarks by Auditors**		
			Outcomes achieved [4]	**Reasons for any deviation** [5]	**Further action plan, if applicable** [6]
		Activity-1: Establishing connectivity	**83 No. of offers made to Mechanical students** **Core** (12 Companies)–Uflex Ltd, Tech Mahindra, Volvo, Toyata, KBL,		

F6 **Placement**	**No. of Offers**	for core companies through Alumni and TAPS **Outcome/Target:** 1. Improvement in offers. **In-charge Faculty:** Prof. A H Desai	EASI, Bosch, EXPLEO, BFW, TATA Marcopolodynamatics, Buhler Ltd. RSB Global **IT** (6Companies)– TCS, Infosys ,KPIT, Allegion , CAP gemini, Cognizant,		
	No. of students getting Placed	**Activity-1:** Conduction of Aptitute training programs in consultation with CIII **Outcome/Target:** 1. Enhancement of eligible students for placements **In-charge Faculty:** Prof. A V Javali	-Twoprogramme completed by CIII		
	pay packages being offered	**Activity-1:** Inviting reputed organizations to the campus for placement drives through TAPS	-This comes under perview of TAPS, which has taken up the initiative and placement activites are ongoing		

		Outcome/Target: 1. Improved pay package **In-charge Faculty:** Prof. V K Havnur			
	MoUs	**Activity-1:** Contacting industries/organizations for possible MOUs. **Outcome/Target:** 1. Better industrial exposure and internships for students **In-charge Faculty:** Prof. S. G. Bindagi	Nil		Nearby industures are contacted for possible MoUs
	Internship	**Activity-1:** Identifying industries offering free internship. **Outcome/Target:** 1. internship for all students.	Letters have been issued for carrying out internship to all students at various industries. Students are undergoing	--	--

		In-charge Faculty: Prof. V. R. Shivannavar	internship.		

Focus	Year 2022				
	Perspective	Perspective/ Key Areas	Observations / Remarks by Auditors		
			Outcomes achieved [4]	Reasons for any deviation [5]	Further action plan, if applicable [6]
F7 **Accreditation and Ranking**	**NBA** **Faculty I/C:** **NBA Coordinator**	**Activity-1:** Extension for continuation of accreditation will be applied. **Outcome/Target:** 1. NBA accreditation for the department 2. **In-charge Faculty:** Prof. S. R. Daboji	Department has been accredited for three years 2022- 2025	--	
	NAAC **Faculty I/C:** **NAAC Coordinator**	**Activity-1:** Department preparations for NAAC accreditation will be done as per institutional guidelines. **Outcome/Target:**	Data pertaining to section 1, 2 and 3 of NAAC have been submitted	--	--

		1. Documentation for NAAC accreditation. **In-charge Faculty:** Dr. Anilkumar H C			
	NIRF ranking. Faculty I/C: **PG Coordinator**	**Activity-1:** Department preparations for better NIRF ranking will be done as per institutional guidelines **Outcome/Target:** 1. Improved NIRF ranking **In-charge Faculty:** Dr. P S Shivakumar gouda Prof. Shivaprasad B L	--	--	---

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							
1 Quarter								
	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**