

**SDM COLLEGE OF ENGINEERING AND TECHNOLOGY**

**Dhavalagiri, Dharwad-580002, Karnataka State, India.**

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# **Internal Quality Assurance Cell**

**[ Department of Computer Science and Engineering ]**

## **REPORT On The Annual Quality Assurance Report AQAR**

**[ 2022-23 ]**

**1<sup>st</sup> July 2022 to 30<sup>th</sup> June 2023**

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**Prepared and Maintained**

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## PART - A

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### DATA OF THE INSTITUTION

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#### 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](mailto: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*): **03-09-2007**
- 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**

## PART - B

### CRITERION I – CURRICULAR ASPECTS

#### 1.1 Curriculum Design and Development

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

Name of program	Program Code	Dates of revision
Electrical and Electronics Engineering (UG)	EEE	2022-23
Power Systems Engineering (PG)	EPS	2022-23

##### 1.1.2 Courses focused on employability/ entrepreneurship/ skill development during the Academic year.

Program with Code	Date of Introduction	Course with Code	Date of Introduction
Electrical and Electronics Engineering (UG) EEE	1979	Major project - Phase I 18UEEL705	2021-2022
		Major project - Phase II 18UEEL804	2021-2022
		Electric Vehicles 18UEEO703	2021-2022
		Internet of Things 18UEEE513	2020-2021
		Computer Organization 18UEEE621	2020-2021
		Computer Communication and Networking 18UEEE622	2020-2021
		VLSI Circuits 18UEEE624	2020-2021
		PLC and SCADA 18UEEE637	2020-2021
		AI Applications to Power Systems 18UEEE741	2020-2021
		Embedded Systems 18UEEE747	2020-2021
		Minor project-I 18UEEL507	2020-2021

		Sensors, Control Systems and simulation lab 18UEEL606	2020-2021
		Minor project-II 18UEEL607	2020-2021
		Internship 18UEEL706	2020-2021
		Soft Skills/Aptitude 18UHUL507	2020-2021
		Data Structures and Algorithms 18UEEE511	2019-2020
		Introductory project 18UEEL407	2019-2020
		Management, Entrepreneurship and IPR 18UHUC500	2019-2020

## 1.2 Academic Flexibility

### 1.2.1 courses introduced during the Academic year

Course	Date of introduction
Programming with C++	2022
Innovation and Design Thinking	2022
Scientific Foundation for Health	2022

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

Name of Programs adopting CBCS	UG NIL	PG NIL	Date of implementation of CBCS / Elective Course System	--	--
Already adopted (mention the year): UG: EEE-2007, PG: EPS-2016					

## 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
Electric Vehicles	2021-22	70
PLC and SCADA	2020-21	40
AI applications to Power System	2020-21	40
Embedded systems	2020-21	16
VLSI Circuits	2020-21	20
Internet of Things	2020-21	40
C++ Programming	2022-23	62

### 1.3.2 Field Projects / Internships undertaken during the year

Project/Programme Title	No. of students enrolled for Field Projects / Internship
<b>Internship</b>	<b>70</b>

## 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	Yes	Yes	Yes	Yes

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

The feedback collected from the various stake holders listed above in carrying out the following activities:

1. Content formation during syllabus revision.
2. Introduction of new subjects.
3. Conduction of value added training programs.
4. Activity based teaching and learning.
5. Placement related activity.

## 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
Electrical & Electronics Engineering	24+18+18+03=63	55	62

### 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	60	01	11	03	--

### 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 ( <i>LMS, e-Resources</i> )	ICT tools and resources available	Number of ICT enabled classrooms	Number of smart classrooms	E-resources and techniques used
14	14	Smart board-02 projector-06 documentation camera-02 Wacom digital writing pad-01. Laptops -5	03	01	Online resources

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

1. Eighteen students per faculty is allotted
2. Regular meeting between the mentor and mentee takes place at the convince of mentor and mentee.
3. Problems discussed by the mentee is resolved by the mentor if not discussed at department level. i.e, HoD

Number of students enrolled in the institution	Number of fulltime teachers	Mentor: Mentee Ratio
240+18=258	14	01:18

### 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	No. of faculty with

			year	Ph.D.
<b>2.4.2 Honors and recognitions received by teachers</b> (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	
26-03-2022	Dr. S. G. Ankaliki	Professor	Attended “Review of examination process” of Basaveshwar Engineering College Bagalkot.	
24-04-2022	Dr. S. G. Ankaliki	Professor	has acted as a reviewer for IEEE International Conference on “Distributed Computing and Electrical Circuits and Electronics (ICDCECE-2022)” organized by Ballari Institute of Technology and Management, Ballari in association with IEEE Bengaluru Section and IEEE International Society	
06-06-2022 and 07-06-2022	Dr. G. D. Kamalapur	Professor	Member of local inquiry committee-VTU	
15-06-2022	Dr. R. L. Chakrasali	Professor	Member of local inquiry committee-VTU	
01-10-2022	Dr. G. D. Kamalapur	Professor	Acted as a subject expert for faculty recruitment committee at KLEIT, Hubli	
17-03-2023	Dr. R. L. Chakrasali		Attended Doctoral Committee meeting at MIT Manipal in online mode.	
21.04.2023	Dr. R. L. Chakrasali	Professor	Acted as reviewer of various activities at Tontadarya College of Engineering which is being selected as one of the 30 institutions in Karnataka by the GOK under RETE (Regional Ecosystem for Technical excellence)	
21.04.2023	Prof. V. R. Sheelavant	Assistant	Acted as reviewer of various activities at Tontadarya	



		Professor	College of Engineering which is being selected as one of the 30 institutions in Karnataka by the GOK under RETE (Regional Ecosystem for Technical excellence)
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## 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
Electrical & Electronics Engineering	EE	I	18-4-2023	24-4-2023
		II	14-9-2023	25-9-2023
		III	18-4-2023	24-4-2023
		IV	14-9-2023	25-9-2023
		V	21-1-2023	25-1-2023
		VI	26-6-2023	4-7-2023
		VII	21-1-2023	25-1-2023
		VIII	26-6-2023	4-7-2023

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
NILL	NILL	NILL

## 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) : <https://sdmcet.ac.in/electrical>

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
EE	Electrical & Electronics Engineering	67	61	91.04%

## 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)

NILL

## 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..... if yes give details

Name of the teacher getting <a href="#">seed money</a>	The amount of seed money	Year of receiving grant	Duration of the grant
Nandakumar C (PI) Sanjeet P A (CO-PI)	90,000	2023	TWO 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	Nil			
International	Nil			

### 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	Nil	Nil	Nil	Nil
Minor Projects				
Interdisciplinary Projects				
Industry sponsored Projects				
Projects sponsored by the University/ College				
Students Research Projects ( <i>other than compulsory by the College</i> )				
International Projects				
Any other(Specify)				
<b>Total</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>

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

**01+01**

### 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)
Nil		

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			
Nil	Nil	Nil	Nil	Nil			
3.3.3 No. of Incubation centre created, start-ups incubated on campus during the year							
Incubation Centre	Name		Sponsored by				
Nil							
3.4 Research Publications and Awards							
3.4.1 Ph. Ds awarded during the year							
Name of the Department			No. of Ph. Ds Awarded				
E&E			05				
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	E&E	14+3					
International	E&E	07+3					
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				
E&E			01				
3.4.4 Patents published/awarded during the year							
Patent Details		Patent status <b>Published/ Filed</b>	Patent Number	Date of Award			
Nil							
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
Dynamic And Transient Analysis Of Islanded Microgrid	<b>Dr. R. L. Chakrasali,</b> EEE, SDMCET, Dharwad	International Journal of Scientific Research in Engineering and Management (IJSREM)  Volume: 06 Issue: 07   July - 2022 ISSN: 2582-3930 <a href="#">DOI:</a>		2022		SDMCET	

		<a href="https://doi.org/10.55041/IJSREM15752">10.55041/IJSREM15752</a>			
Harmonic Analysis of Non-Linear Loads in Distribution System and Mitigation Using Passive Filters.	<b>Dr. S. G. Ankaliki</b>	International Journal of Engineering and Technology (IRJET) Vol. 09, Issue 05/ <b>May 2022</b> e-ISSN:2395-0056 P-ISSN:2395-0072	2022		SDMCET
Improvement Of Power Quality Using Fuzzy Based Unified Power Flow Controller	<b>Dr. S. G. Ankaliki</b> , EEE, SDMCET, Dharwad	International Journal of Scientific Research in Engineering and Management (IJSREM)Volume: 06 Issue: 07   July - 2022 ISSN: 2582-3930 <a href="https://doi.org/10.55041/IJSREM15757">DOI: 10.55041/IJSREM15757</a>	2022		SDMCET
Power Quality Assessment & Mitigation of Grid Integrated PV System in Distribution Network	<b>Dr. S. G. Ankaliki</b> , EEE, SDMCET, Dharwad	International Journal of Scientific Research in Engineering and Management (IJSREM)Volume: 06 Issue: 07   July - 2022 ISSN: 2582-3930 <a href="https://doi.org/10.55041/IJSREM15761">DOI: 10.55041/IJSREM15761</a>	2022		SDMCET
Short-Term Load Forecasting Using Artificial Neural Network	<b>Dr. S. G. Ankaliki and Manjula S Sureban</b> , EEE, SDMCET, Dharwad	i-manager's Journal on Power Systems Engineering (JPS), Vol. 10, No.1, PP 13-23, February - April 2022, ISSN Print: 2321-7499, ISSN Online: 2322-0376, IF: 0.425, www.imanagerpublications.com	2022		SDMCET
Modeling And Simulation of Mho Type Distance Relay For High Voltage Transmission Line Protection	<b>V. R. Sheelavant</b> , EEE, SDMCET, Dharwad,	International Journal of Scientific Research in Engineering and Management (IJSREM) Volume: 06 Issue: 07   July - 2022 <a href="https://doi.org/10.55041/IJSREM15753">DOI: 10.55041/IJSREM15753</a> ISSN: 2582-3930	2022		SDMCET
Congestion Management By Phase Shifting Transformer Using Fuzzy Logic	<b>Dr. B. S. Shalavadi</b> , EEE, SDMCET, Dharwad	International Journal of Scientific Research in Engineering and Management (IJSREM)	2022		SDMCET

Control.		Volume: 06 Issue: 07   July - 2022 ISSN: 2582-3930 <a href="#">DOI: 10.55041/IJSREM15759</a>			
Mitigation Of Power System Transients In A Multi-Machine System Using Unified Power Flow Controller	<b>Nandakumar a C.</b> , EEE, SDM CET, Dharwad	International Journal of Scientific Research in Engineering and Management (IJSREM) Volume: 06 Issue: 07   July - 2022 ISSN: 2582-3930 <a href="#">DOI: 10.55041/IJSREM15847</a>	2022		SDM CET
Implementation Of A User Friendly Electro-Mechanical Conoweeder For Agricultural Application	<b>S. G. Nayak</b> , EEE, SDM CET, Dharwad	International Journal of Scientific Research in Engineering and Management (IJSREM) Volume: 06 Issue: 07   July - 2022 ISSN: 2582-3930 <a href="#">DOI: 10.55041/IJSREM15755</a>	2022		SDM CET
Active Power Flow Control Using Phase Shifting Transformer and UPFC In AC Transmission Line	<b>Manjula Sureban</b> , EEE, SDM CET, Dharwad	International Journal of Scientific Research in Engineering and Management (IJSREM) Volume: 06 Issue: 07   July - 2022 ISSN: 2582-3930 <a href="#">DOI: 10.55041/IJSREM157542022</a>	2022		SDM CET
Physical Modeling Of Battery And Electric Vehicle	<b>Pradeep Vibhuti</b> , EEE, SDM CET, Dharwad	International Journal of Scientific Research in Engineering and Management (IJSREM) Volume: 06 Issue: 07   July - 2022 ISSN: 2582-3930 <a href="#">DOI: 10.55041/IJSREM15760</a>	2022		SDM CET
Design And Analysis Of PMDC Motor For Electric Vehicle.	<b>S P Amminabhavi</b> , EEE, SDM CET, Dharwad	International Journal of Scientific Research in Engineering and Management (IJSREM) Volume: 06 Issue: 07   July - 2022	2022		SDM CET

		ISSN: 2582-3930 <a href="#">DOI: 10.55041/IJSREM15764</a>			
“Matlab Simulation for Power Factor Correction”	<b>Prof. S. P. Amminabhavi</b>	International Journal for Research in Applied Science and Engineering Technology (IJRASET) ISSN:2321-9633, IC Value:45.98. SJ Impact Factor:7.538 Volume 10 Issue IV Apr.2022 Available at <a href="http://www.ijraset.com">www.ijraset.com</a>	2022		SDMCET
“First University of World - Takshashila”	<b>Dr. G. D. Kamalapur</b>	International Journal Omni Science A Multidisciplinary Journal Volume 12, Issue 1, 2022, PP- 17-21	2022		SDMCET
Modeling of Three-Phase Written-Pole Motor and Performance Predetermination using Numerical Methods	<b>Manjunath B. Ranadev1, V. R. Sheelavant2, R. L. Chakrasali3</b>	Mathematical Statistician and Engineering Applications ISSN: 2094-0343 2326-9865 Article Info Page Number: 08 - 18 Publication Issue: Vol 71 No. 3s (2022)  Article History Article Received: 22 April 2022 Revised: 10 May 2022 Accepted: 15 June 2022 Publication: 19 July 2022	2022		SDMCET
Predetermination of Performance Parameters of 3phase Induction Motor using Numerical Technique Tools	<b>Manjunath B. Ranadev 1*, V. R. Sheelavant 2, R. L. Chakrasali 3</b>	International Journal on Recent and Innovation Trends in Computing and Communication ISSN: 2321-8169 Volume: 10 Issue: 6 DOI: <a href="https://doi.org/10.17762/ijritcc.v10i6.5628">https://doi.org/10.17762/ijritcc.v10i6.5628</a> Article Received: 10 April 2022 Revised: 18 May 2022 Accepted: 02 June 2022 Publication: 30 June 2022 63 IJRITCC   June 2022, Available @ <a href="http://www.ijritcc.org">http://www.ijritcc.org</a> ( <b>Scopus</b> )	2022		SDMCET
Green Synthesis of Nickel Cobaltite Using Moringa oleifera Plant Extract for Electrode	Prof. S. G. Nayak	Springer Nature International Journal of Electronic Materials Dec, 2022 ( <b>Scopus</b> )	2022		SDMCET

Materials in Sustainable Supercapacitor Energy Storage					
“Biosynthesis of zinc oxide-cobalt oxide nanocomposite as electrode material and its performance evaluation for the sustainable hybrid super capacitor energy storage devices”	Prof. S. G. Nayak	International Journal 2022 (Scopus)	2022		SDMCET
Recognition of Alternative Power Flow paths in Distribution Network under Line Outages Using Graph Theory Technique	<b>Dr. R. L. Chakrasali,</b> EEE, SDMCET, Dharwad	GIS Science Journal ISS No: 1869-9391 Vol. 9, ISSUE 12, 2022 Page No:503-510	2022		SDMCET
Binderless nano marigold flower like structure of nickel sulfide electrode for sustainable supercapacitor energy storage applications	Prof. S. G. Nayak	Research article in Journal of Energy Storage (Q1-Impact Factor 8.9, cite Score 8.4) <b>Indexed</b>	2023		SDMCET
Comparative Analysis of Photovoltaic Characteristics Using Different Models	<b>Dr. R. L. Chakrasali,</b> EEE, SDMCET, Dharwad	Journal of Electrical and Power System Engineering www.matjournals.com- ISSN: 2582-5712 Volume-9, Issue-1 (January-April, 2023) <a href="https://doi.org/10.46610/JEPSE.2023.v09i01.005">https://doi.org/10.46610/JEPSE.2023.v09i01.005</a> PP41-52	2023		SDMCET
Design and Analysis of PMDC Motor for Electric Vehicle Advanced	Prof. <b>S. P. Amminabhavi</b>	IEEE conference titled “for DOI:10.1109/ACCTHPA57160.2023.10083384 published	2023		SDMCET

Computing and Communication Technologies						
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 publication	h-index	Number of citations excluding self citations	Institutional affiliation as mentioned in the publication
NIL						
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	Nil	19				
Presented papers	Nil	16				
Resource Persons	Nil	Nil	03			
<b>3.5 Consultancy</b>						
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)			
E&E	Nil					
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		
E&E	Nil					
<b>3.6 Extension Activities</b>						
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 <b>co-ordinated</b> in such activities	Number of students participated in such activities			
Nil						
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			
Nil						
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 <b>co-ordinated</b> such activities	Number of students participated in such activities
Nil				

### **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
Nil			

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 <b>(From-To)</b>	participant
Nil				

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 <b>students/teachers participated under MoUs</b>
Nil			

## 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
Nil	Nil

4.1.2 Details of augmentation in infrastructure facilities during the year

Facilities	Existing	Newly added
Campus area	1,598.86 m <sup>2</sup>	
Class rooms	4	
Laboratories	5	
Seminar Halls	1	
Classrooms with LCD facilities	4	
Classrooms with Wi-Fi/ LAN	4	
Seminar halls with ICT facilities	1	
Video Centre	0	
No. of important equipments purchased ( $\geq$ 1-0 lakh) during the current year.	0	
Value of the equipment purchased during the year (Rs. in Lakhs)	1,94,321	
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
NA	NA	NA	NA

4.2.1 Library Services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value Value
Text Books	<b>761</b>					
Reference Books						
e-Books						
Journals						
e-Journals						
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	Name of the module	Platform on which	Date of launching e - content

teacher		module is developed	
NIL	NIL	NIL	NIL

### 4.3 IT Infrastructure

#### 4.3.1 Technology Upgradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Available bandwidth (MGBPS)	Others
Existing	<b>58</b>								
Added	<b>10</b>								
Total	<b>68</b>								

#### 4.3.2 Bandwidth available of internet connection in the Institution (Leased line)

500 MBPS

#### 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
NA	NA

### 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
NA	NA	NA	NA

#### 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	NA	NA	NA
Financial support from other sources			
a) National	Backward Classes Welfare Department, Department of Agriculture (KSDA), Department of Technical Education, Karnataka State Brahmin Development Board, Social Welfare Department <b>and</b> Tribal Welfare Department.	131	36,76,700
b) International	NA	NA	NA

#### 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
Aptitude Training	24 <sup>th</sup> to ,26 <sup>th</sup> September 2022	76	Ms. Ragini , Innovation Unlimited, Bangalore
C Program	5 <sup>th</sup> ,6 <sup>th</sup> ,12 <sup>th</sup> ,19 <sup>th</sup> ,26 <sup>th</sup> Nov & 3 <sup>rd</sup> Dec 2022	69	Dr. Siddalingesh Navalgund, SDMCET
Aptitude Training	16 <sup>th</sup> to 17 <sup>th</sup> Dec 2022	69	Ms. Ragini , Innovation Unlimited, Bangalore
Aptitude Training	15 <sup>th</sup> to 18 <sup>th</sup> May, 2022	69	Ms. Ragini , Innovation Unlimited, Bangalore
C Program	18 <sup>th</sup> to 20 <sup>th</sup> May, 2022	62	Mr. Vijay Mahantesh, Bangalore

#### 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
2022-23	--	--	--	--	33

#### 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
00	00	00

**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
Radisys		01	
TATA Elxsi		09	
Allegion		01	
Mercedes Benz - DTICI		03	
Tejas Networks		03	
Torry Harris		01	
Vitesco Technologies		02	
Cognizant		05	
Societe generale		04	
Tech Mahindra		01	
Accenture		02	
Epsilon Carbon		03	
Quest Global		01	
SLK Software		02	
SHARP Software Development India Pvt Ltd		01	
JSW		02	
Technologies Global Pvt Ltd		01	
VST Tillers Tractors Limited		02	
Continental Automotive Pvt		06	

Ltd			
VCTI		01	
Sign-off semiconductors		02	
Alstom		01	

#### 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
--	--	--	--	--	--

#### 5.2.3 Students 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 <b>selected/qualifying</b>	Registration number/roll number for the exam
NET	--	--
SET	--	--
SLET	--	--
GATE	--	--
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
00	NA	00

### **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
2022-23		National	Hockey		2SD20EE010	Ms. Gonapathi Sai Sinduja

2022-23		National	Hockey		2SD20EE038	Ms. Savita V M
2022-23		National	Archery		2SD20EE043	Ms. Shwetha Akki
2022-23		National	Athletic		2SD19EE044	Ms. Shrinidhi S Surgond
2022-23		National	Cross country		2SD19EE044	Ms. Shrinidhi S Surgond
2022-23		National	Gymnastics		2SD22EE007	Anu A Muttahi

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

Nil

#### **5.4 Alumni Engagement**

5.4.1 Whether the institution has registered Alumni Association? Yes/No, if yes give details (maximum 500 words): 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 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 Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and other support services

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: **62**

5.4.3 Alumni contribution during the year (in Rupees) : **08 lakhs**

5.4.4 Meetings/activities organized by Alumni Association : **04**

## **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)

The head of the department looks after the overall performance and development of department. The responsibilities are disseminated through the faculty coordinators. The faculty members are involved in design of curricula by being members of DUGC, DPGC, BoS.

6.1.2 Does the institution have a Management Information System (MIS)?

Yes/No/Partial: **yes**

### **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:** The curriculum adopted in Electrical and Electronics Engineering is recommended by Board of Studies of in Electrical and Electronics Engineering Department and approved by the Academic Council. The department IQAC looks after the overall quality check in respect of all academic activities. The syllabus is designed to provide a comprehensive coverage of the subject with emphasis on fundamentals as well as applied aspects. Periodic changes based on societal needs are made by considering the feedback from the faculty, academic peers, and experts from industry, current students and alumni.
- ❖ **Teaching and Learning:** The teaching and learning processes are adhered to academic calendar. This process is initiated with course allotment. A course plan is prepared to have effective content delivery. A few teaching learning methodologies adopted in the department are practical oriented lectures, tutorials, collaborative case-study learning, independent learning, peer teaching approaches with integration of appropriate teaching aids
- ❖ **Examination and Evaluation:** Two internal assessment test followed by an improvement test are conducted by department as per the schedule prescribed in the academic calendar. Students undergo continuous internal evaluation process throughout the semester. At the end of semester, a semester end examination is conducted.
- ❖ **Research and Development:** The department of Electrical and Electronics Engineering is a recognized research center of VTU and offers doctoral programme in Electrical and Electronics Engineering. Research activities namely paper presentation, experimental works, funded research projects keep going on throughout the year.
- ❖ **Library, ICT and Physical Infrastructure / Instrumentation:** The department is equipped with LCD projector enabled classrooms. The departmental library caters the need of textbooks, reference books for the students. All the laboratories of the department are well equipped and upgraded with the necessary modern equipment. The department also has exclusive computer centre with necessary software and system.
- ❖ **Human Resource Management:** The department has sufficient number of faculty members as per the guidelines stipulated by NBA or AICTE and also has required non-teaching and supporting staffs.
- ❖ **Industry Interaction / Collaboration:** Experts from industries are invited in framing the curriculum as members of BoS. Invited lectures by field experts/ consulting engineers are arranged on routine basis.



- ❖ Admission of Students : The present intake capacity of the department is 60. The students take admission through lateral entry also, for the third semester. Admission statistics for the last two academic years are: 2021-2022: 74, and 2022-2023: 70 at first year level

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 organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	Dates (from-to)	No. of participants (Teaching staff)	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 programme	Number of teachers who attended	Date and Duration (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)

College level

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
SDME Society	90,000	Research

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	Yes	Faculties from NIE-Mysore.	Yes	IQAC
Administrative				

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

6.5.3 Development programmes for support staff (at least three)- - NIL

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

**6.5.5**

- a. Submission of Data for AISHE portal : Yes
- b. Participation in NIRF : Yes
- c. ISO Certification : Yes
- d. NBA or any other quality audit : Yes

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
Nil			

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	Yes	
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
<b>Blood Donation Camp</b>	<b>(INSIGNIA) 26-5-2023</b>	<b>250</b>

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

**Solar Energy, Sewage treatment plant, Gardening - Plantation in Entire Campus.**

### 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

**The Competent professionals produced in our college have been offered about 616 offers by 73 companies for 417 students during academic year 2022-2023.**

## 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	07	<b>07+3 = 8</b>
2	Other – Paper/article Publications	14	<b>14+3=17</b>
3	Book Publications		
4	Book Chapter Publications		<b>01</b>
5	IPR Publications		
6	IPR Granted		
7	No. of Funded Projects sanctioned		<b>01</b>
8	Total Funds Received.	20 lakhs	<b>90 thousand</b>
9	Total Projects- Ongoing	01	<b>01+01=02</b>
10	% Of Placement	<b>74%</b>	
11	No. of Offers	<b>107</b>	
12	Highest Package L/A	10 lakhs	
13	Lowest Package L/A	4 lakhs	
14	% - of Students Graduated	<b>95.69</b>	
15	No. of startups		
16	Consultancy  Total Number: IRG generated:		
17	No. of Conferences Conducted	<b>01</b>	
18	No. of Workshops/ Seminar/ conducted	<b>02</b>	<b>02+02=4</b>
19	No. of Workshops/ Seminar/ conferences attended  (Faculty + Students= Total)	<b>15</b>	<b>15+4=19</b>

20	No. of awards / recognitions received (Faculty + Students + dept/Institution= Total)		
21	No. of New Infrastructure / Programs/space/laboratories created		<b>01</b>
22	No. of networking/society connect programs conducted.		
23	No. of learning materials created and published		
24	No. of new process/procedures added.		
25	No. of products/ Applications created		
26	Budget Sanctioned In Lakhs of rupees	Apr-2021 to March 2022 13.46	Apr-2022 to March 2023 12.95
27	Total Expenditure In Lakhs of rupees	Apr-2021 to March 2022 9.81	Apr-2022 to March 2023
28	Any other note-worthy events/activities	<b>1</b>	<b>2</b>
<p><b>Note:</b> Details of all these claims mentioned in the above table is to be given in the next section of this report under the title “<b>strategic plan implementation report</b>” along with evidences.</p>			

## Best Practice- 1

**Title:** Activity based learning and project based learning

**Author(s):** Prof. Sunil Joshi

**Scope:** Usually learning is enhanced by different ways. Each method/way has its own quantum of contribution towards learning; so Activity /project based learning contribution is more compared to reading/writing/ discussion based learning.

**Objectives:**

1. To enhance the learning skills among students there by understand the concepts and increase cognitive skills.
- 2.

**Methodology / Procedure:** A class of say 60-66 students groups are made say 8-10; allot some problems (programming / hardware approach) to solve them; student have to study and understand the problem statement and rig up hardware if hardware is not involved develop logic and algorithm if programming is involved then solve it; finally demonstrate the results.

**Outcomes:**

1. Analytical ability is increased; problem solving skill is increased.
2. Soft skills are also improved. Students are made to explain regarding what activity /project that they have carried out.

**Cost:** Nil

**Conclusion / Impact Analysis:** Overall learning ability, logical and practical applications of courses that are taught are improved.

**References if any:**

1. Nil
- 2.

## Best Practice- 2

**Title:** Individual Assignment

**Author(s):** Prof. V. R. Sheelavant.

**Scope:** For Mathematical Subjects

**Objectives:**

1. To make students to solve problems individually.
2. To Boost their Confidence.

**Methodology / Procedure:** Numericals linked to roll numbers are given. These are evaluated by teacher by writing program to solve problems just by entering roll numbers of students.

**Outcomes:**

1. Average result of class improved.
2. Confusion in students is reduced.

**Cost:** Nil

**Conclusion / Impact Analysis:** Overall ability to solve problems by every student is improved.

**References if any:**

1. Nil
- 2.

30

1. Introducing M.tech program on Electric vehicle
2. Utilization of research laboratory established under VGST grant..
3. Planned to conduct National conference on power system Engineering.
4. Greater **autonomy for faculty** members suggested in NEP-2020.
5. Improved **Industry readiness** of students.
6. Improving **National level ranking** (NIRF)
7. To be **ready for NEP-2020**: Credit transfers/multi entry and multi exit as per directions of Govt. of Karnataka / VTU

*Name & Signature of the Coordinator-IQAC*

*Name & Signature of the Chairperson/Head*

*Date: 01-07-2023*

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

**Department of Electrical and Electronics Engineering**

**STRATEGIC PLAN (2022-23) IMPLEMENTATION REPORT**

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**[ 2022-23 ]**

**1<sup>st</sup> July 2022 to 30<sup>th</sup> June 2023**

**Date of Publication: 1<sup>st</sup> July 2023**

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

## **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 1<sup>st</sup> January and ending by 31<sup>st</sup> December). This plan is **based on the existing vision and mission** and the National Educational Policy- **NEP-2020**. Mission statements are the **basic perspectives** driving the key areas for the activities established in this report. This report will serve as baseline for **budgeting** and also to establish the Institutional level **ANNUAL performance appraisal**. 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. S. G Ankaliki, **Professor and Head, Department** of Electrical & Electronics Engineering, SDM College of Engineering and Technology, Dharwad-580002.

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2. Dr. B. S. Shalavadi, **Faculty I/C- Strategic Plan**, Department of Electrical & Electronics Engineering, SDM College of Engineering and Technology, Dharwad-580002.

Email: shalavadibs@gmail.com, Mobile: 94484 33561

		<b>Year 2022-23</b>			
<b>Focus</b> [1]	<b>Perspective/ Key Areas</b> [2]	<b>PLANNING</b> [3]	<b>Status as on 30<sup>th</sup> June 2023</b>		
			<b>Outcomes achieved</b> [4]	<b>Reasons for any deviation</b> [5]	<b>Further action plan, if applicable</b> [6]
<b>F1 / M1</b>  <b>Curriculum Relevance</b>	Re-establishing the relevance of critical thinking in Course outcomes and raising learning levels focusing on Experiential learning of NEP-2020.	<p><b>Activity-1:</b> Brain storming session on <b>Relevance of CO'S and its mapping</b></p> <p><b>Activity-2: Identifying Trending Subjects</b></p> <p><b>In-charge Faculty:</b></p> <p><b>Prof. R. L. Chakrasali</b></p> <p>Mobile: 98454 77797</p> <p>Email: pratisatu@yahoo.co.in</p>	<p>CO'S and its mapping is done by course teachers is approved in DUGC and BOS and found relevant.</p> <p>Following are new Subjects added</p> <ol style="list-style-type: none"> <li>1) Internet of things (IOT)</li> <li>2) PLC and SCADA</li> <li>3) Python programming</li> </ol> <p>placed before BoS ( second year course contents) incorporating the features of NEP 2020</p> <p><u>BOS</u> was held on 13-08-22 has been approved.</p>		

	<b>Re-establishing the relevance of Program Articulation Matrix-PAM</b>	<p><b>Activity-1:</b> Revisit for reassertion of the PAM through discussion in faculty meet</p> <p><b>In-charge Faculty:</b></p> <p><b>Prof. S. G. Nayak</b></p> <p>Mobile: 94482 00483</p> <p>Email: shravannayak@rediffmail.com</p>	The process of reestablishment of <a href="#">PAM</a> completed for 2018 Batch and 2021 batch completed till fourth semester.		
	<b>Conducting internal and External Audits</b>	<p><b>Activity-1:</b> Routine document verification of the activities</p> <p><b>In-charge Faculty:</b></p> <p><b>Prof. V.R. Sheelavant</b></p> <p>Mobile: 94805 53975</p> <p>Email: sheel125@gmail.com</p>	<p><a href="#">Internal audit</a> of 21-22 completed. <a href="#">External audit</a> was done for 20-21 on first june 2022.</p> <p>Department has maintained all academic and nonacademic related documents. Effort from department to enhance placement and overall development of students is evidenced.</p>		

		<b>Year 2022-23</b>			
<b>Focus</b> [1]	<b>Perspective/ Key Areas</b> [2]	<b>PLANNING</b> [3]	<b>Status as on 30<sup>th</sup> June 2023</b>		
			<b>Outcomes achieved</b> [4]	<b>Reasons for any deviation</b> [5]	<b>Further action plan, if applicable</b> [6]
<b>F2</b>  <b>M2,M3</b>	<b>Bridge Courses</b>  For all and specific to <b>Slow learners</b>  &  <b>Learning Extensions</b>	<b>Activity-1:</b> To bring lateral entry students In line with main stream  <b>In-charge Faculty:</b>  <b>Prof. Manjula S</b>  Mobile: 94482 00483  Email: smanjula845@gmail.com	Extra classes were conducted for lateral students in all subjects of third semester and records are maintained in respective course files.		
	<b>Exam Results</b>	<b>Tutorials for complex courses</b>	<b>Activity-1:</b> Tutorial for problem based course  <b>In-charge Faculty:</b>  <b>Prof. Manjula S</b>  Mobile: 94482 00483  Email: smanjula845@gmail.com	Tutorial classes were conducted for Network analysis and Analog Electronics courses and records are maintained in respective course files.	

	<p align="center"><b>Strengthening Experiential Learning component</b></p>	<p><b>Activity-1:</b> CTA Assignments</p> <p><b>Activity-2:</b> Open-ended problems lab experiments</p> <p><b>Activity-3:</b> Ist Year Do It Yourself</p> <p><b>In-charge Faculty:</b> <b>Prof. Manjula S</b></p>	<p><u>Experiential Learning based CTA</u> Assignments for all courses being implemented.</p> <p>Two experiments are included in Microcontroller lab</p> <p>For Ist Year students <u>Do It Yourself</u> activity was conducted</p>		
	<p align="center"><b>Industry Connectivity for Class room</b></p>	<p><b>Activity-1:</b> Guest Lecture</p>	<p><u>Technical talk</u> was arranged on 04-01-22 for V semester students on the topic “ Design and analysis of modern power converters” by Dr. Arjun M., Asst. Prof. EEE Dept. , MIT, Manipal. 69 students had attended the programme.</p> <p>A one-day <u>workshop</u> on the topic, “Design and Analysis of modern power converters” was organised for the V semester BE students of EEE department on 10-12-2022. 59 of 69 students participated in the workshop and gave positive feedback.</p>		

**Activity-2:** Industry Defined Projets

**In-charge Faculty:**

**Prof. Manjula S**

Under MOU with Tata marcololo one final year batch students namely

1. [Nayana](#) m Chatakondi(2SD18EE033)

2. Sakshi Hegde (2SD18EE051)

3. Sushma Biradar (2SD18EE060)

has done projectwork titled “ Noise cancellation in TATA Buses” under the guidance of prof. V.R.Sheelavant



Focus [1]	Perspective/ Key Areas [2]	Year 2022-23			
		PLANNING [3]	Status as on 30 <sup>th</sup> June 2023		
			Outcomes achieved [4]	Reasons for any deviation [5]	Further action plan, if applicable [6]
<b>F3</b>  <b>M3</b>  <b>Research</b>	Quality assessment of all research proposals	<b>Activity-1:</b> Drafting of project proposals  Talk by Dr. V. S. Hegde  <b>In-charge Faculty:</b> <b>Prof. Pradeep Vibhuti</b>  Mobile: 9611828528  Email: pradeepvibhuti@sdmacet.ac.in	Department faculty attended the <a href="#">talk by Dr. V. S. Hegde</a> on how to prepare an effective research proposal held on 22 <sup>nd</sup> feb.		
	<b>IPR:</b> Copyrights and Patents  <b>Paper Publications</b>  <b>Funded Projects</b>	<b>Activity-1:</b> one awareness program on IPR for all Faculty	Eighteen international <a href="#">journal papers</a> were published.  Submitted four proposals to VGST by faculty	Because of non availability of resource person at the scheduled date	Planned to carryout in next year.

**Activity-2:**To publish /present review/research papers in Journal/Conference

**Activity-3:** preparation of proposals for funding

**In-charge Faculty:**

**Prof. Pradeep Vibhuti**

Mobile: 9611828528

Email: pradeepvibhuti@sdmacet.ac.in

One proposal of Prof. B.S.Shalavadi and Prof. V.R.Sheelavant is short listed

		<b>Year 2022-23</b>			
Focus	Perspective/ Key Areas	PLANNING	<b>Status as on 30<sup>th</sup> June 2023</b>		
			<b>Outcomes achieved</b> [4]	<b>Reasons for any deviation</b> [5]	<b>Further action plan, if applicable</b> [6]
<b>F4</b>  <b>M3 &amp; M4</b>  <b>Value additions</b>	<b>Learning for Placement</b>	<b>Activity-1:</b> Arrange for placement related training through CIII  <b>In-charge Faculty:</b> <b>Prof. Nandakumara C.</b> Mobile: 99165 41079 Email: cnanda1010@gmail.com	<u>Training</u> on C programming was conducted during 5 <sup>th</sup> Nov-3 <sup>rd</sup> Dec 22 for 5 <sup>th</sup> semester E& E students. 62 out of 69 students have attended. Prof. S.S.Navalgund conducted the training.  Department conducted offline placement <u>aptitude and reasoning practice test</u> for third year electrical students on 26 <sup>th</sup> sept 22. 68 out of 69 students have attended the test.		
	<b>Soft Skills/ Group Discussion</b>	<b>Activity-1:</b> Submission requested to CIII  <b>In-charge Faculty:</b> <b>Prof. Nandakumara C.</b> Mobile: 99165 41079	Three Training on <u>aptitude/soft skills</u> were conducted between 17 <sup>th</sup> to 19 <sup>th</sup> june/ 24 <sup>th</sup> to 26 <sup>th</sup> September and 25 <sup>th</sup> and 26 <sup>th</sup> nov 22 .		

		Email: cnanda1010@gmail.com			
	<b>English Communication Skills</b>	<b>Activity-1:</b> Submission requested to CIII <b>In-charge Faculty:</b> <b>Prof. Nandakumara C.</b> Mobile: 99165 41079 Email: cnanda1010@gmail.com	Proposal submitted to CIII	Because of non availability of resource person at the scheduled date	Completed for current batch of 2021-22
	<b>Use of ICT</b> Information Communication Technology	<b>Activity-1:</b> one awareness program on use of ICT (PPT preparation) for Students <b>In-charge Faculty:</b> <b>Prof. Sanjeeth P. Amminabhavi</b> Mobile: 90604 07235 Email: sanjeethpa5153@gmail.com		Because of delayed start of odd (3) semester	<b>Planned to carryout in even semester</b>

## Year 2022-23

**Status as on 30<sup>th</sup> June 2023**

Focus	Perspective/ Key Areas	PLANNING	Status as on 30 <sup>th</sup> June 2023		
			Outcomes achieved [4]	Reasons for any deviation [5]	Further action plan, if applicabl e [6]
<b style="color: red;">F5</b> <b style="color: red;">Communit y Oriented Services</b>	<b>Awareness Program</b>	<b style="color: red;">Activity-1:</b> Awareness on energy conservation  <b style="color: red;">In-charge Faculty:</b> <b>Prof. Sanjeeth P. Amminabhavi</b>  Mobile: 90604 07235  Email: <a href="mailto:sanjeethpa5153@gmail.com">sanjeethpa5153@gmail.com</a>		Because of delayed start of odd (3) semester	Planed to carryout in even semester
	<b>M4</b> <b>Learning Programs through workshops</b>	<b style="color: red;">Activity-1:</b> Arrange one program in school  <b style="color: red;">In-charge Faculty:</b> <b>Prof. Sanjeeth P. Amminabhavi</b>		Because of delayed start of odd (3) semester	Planed to carryout in even semester

		Mobile: 90604 07235 Email: sanjeethpa5153@gmail.com			
	<b>Technology Transfer Programs</b>	-----			

## Year 2022-23

Focus	Year 2022-23				
	Perspective/ Key Areas	PLANNING	Status as on 30 <sup>th</sup> June 2023		
			Outcomes achieved [4]	Reasons for any deviation [5]	Further action plan, if applicable [6]
<b>F6 Placement</b>	No. of Offers	50	107		
	No. of students getting Placed	40	53		
	pay packages being offered	5 LPA	4 LPA minimum 10 LPA maximum		
	MoUs	Activities like industry defined projects are being carried out in continuation with the existing MOU's with HESCOM & TATA Marcopolo	Under MOU with Tata marcololo one final year batch has completed projectwork		
	Internship	Planned to send all students to internship			All Students had carried out Internship

## Year 2022-23

Focus	Year 2022-23				
	Perspective	Perspective/ Key Areas	Status as on 30 <sup>th</sup> June 2023		
			Outcomes achieved [4]	Reasons for any deviation [5]	Further action plan, if applicable [6]
<b>F7</b>  <b>Accreditation and Ranking</b>	<b>NBA</b>  <b>Faculty I/C:</b> <b>Prof. S. G. Nayak</b> Mobile: 94482 00483 Email: shravannayak@rediffmail.com  <b>NBA Coordinator</b>	Prepare & apply for compliance report to NBA	compliance report submitted to NBA		Got accredited from NBA on july 22 upto june 25
	<b>NAAC</b>  <b>Faculty I/C:</b> <b>Prof. Pradeep Vibhuti</b> Mobile: 9611828528 Email: pradeepvibhu@gmail.com	Provide available document sought by NAAC coordinator	document sought by NAAC coordinator was provided		Submitted all documents



	<b>NAAC Coordinator</b>				
	<b>NIRF</b> ranking. Faculty I/C: <b>Dr. S. G. Ankaliki</b> <b>PG Coordinator</b>	To improve upon existing	Maintained the ranking between 200-250		

**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								
<b>Ist Quarter</b>								
	DUGC Member Secretary	IQAC Coordinator	<b>Faculty I/C of Strategic Plan</b>	<b>Head of the Department</b>	Member-3 Audit Team	Member-2 Audit Team	Member-1 Audit Team	<b>PRINCIPAL</b>