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 Physics]

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

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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

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
NA	NA	NA

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

Programme with	Date of	Course with Code	Date of Introduction
Code	Introduction		
NA	NA	NA	NA

1.2 Academic Flexibility

.,	2.]	l.	N	ev	V	pr	O	gra	ım	ım	es	/c	οι	ır	ses	3 11	ıtr	oc	lu	ced	l c	lur	ing	g t	he	Α	Aca	de	m	1C	vea	ır

Programme/Course	Date of introduction
NA	NA
1 2 2 5	11. 6 (07.00) /51 1 0 0 1 1 1 1 1 1 1 1 1

1.2.2 Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College

level during the Ac	cademic	c year.							
Name of Programi	mes	UG	PG		Date of in	nplemen	tation	UG	PG
adopting CBCS					of CBCS	/ Electiv	e		
					Course Sy	ystem			
Already adopted (1								NA	NA
1.3 Curriculum E									
1.3.1 Value-added		s impartin							
Value added cours	ses			Date of i	ntroduction	n	Numb	er of s	tudents enrolled
NA				NA			NA		
1.3.2 Field Project	s / Inter	nships un	der taker	n during t	he year		I		
Project/P						students	enrolle	d for F	Field Projects / Internships
NA				NA					*
1.4 Feedback Sys	tem								
1.4.1 Whether stru	ctured	feedback	received	from all t	the stakeho	olders.			
1) Students	2) Te	achers	3) Emp.	loyers		4) Aluı	nni		5)Parents
,	ĺ		, 1			,			,
Yes	No		No			No			Yes
1.4.2 How the feed	lback o	btained is	being an	nalvzed a	nd utilized	for ove	all deve	elopme	ent of the institution? (Maximum
500 words)			8	J				I	
• Centralize	d Stud	ent Feedl	oack froi	m college	.				
		CRITER	ION II -	-теасн	ING-LEA	RNING	AND	EVAL	UATION
2.1 Student Enr									
2.1. 1 Demand Rat	tio durii	ng the yea	r						
Name of the					per of appl				Students Enrolled
	Number	of seats a	vailable		received				
NA		NA			NA				NA
2.2 Catering to Stu	dent Di	versity							

Year	Number of enrolled in institution	the	enrolle	er of students ed in the tion (PG)	Number of full time teachers available in the institution teaching only UG courses	Number of fu- teachers avail in the instituti teaching only courses	able on	Number of teachers tea and PG courses	ching both UG
NA	NA		NA		NA	NA		NA	
		earning P of teachers			ive teaching with	Learning Ma	ınagem	ent Systems (LMS)), E-learning
resour	ces etc. (ci	ırrent year	data)						
Numb teache	er of ers on roll	Number of teachers used ICT (LMS) Resources	sing 5, <i>e</i> -	ICT tools and resources available	Number of IC enabled classrooms	T Number smart classroor		E-resources and to used	echniques
04		04	<u>') </u>	Online Tools	5	5		Need based	
		entoring sv	stem a	vailable in the	institution? Give d	etailsNA	(maxim	num 500 words)	
2.3.2	Students m								
2.3.2	Students m								
			ed in t	he institution	Number of fullti	me teachers	Mento	or: Mentee Ratio	

2.4.1 Number of fo	and Quality ull-time teachers appoin	ted 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.
05	04	01	Nil	03

Year of awa		of full-time teachers re	· ·	Designation	Name of the award, fellowship,
	state l	evel, national level, inte	ernational level		received from Government or recognized bodies
2022-2023	Nil			Nil	Nil
2.5 Evalı	iation Pro	cess and Reforms			
2.5.1 Nui during th		ys from the date of	semester-end/ year	- end examina	tion till the declaration of result
Progra	Progra	Semester/ year	Last date of the las		declaration of results of
mme	mme		semester-end/ year	- semeste	er-end/ year- end examination
Name	Code		end examination		
NA 2 7 2 4	NA	0.0	1		
	0 1	•		es about evalua	ation against total number
		minations during th	•		
*Do not :	· 1 1	analmation/ no tota	llina		
		-evaluation/ re-tota			
Number o	of complai	nts or grievances	Total number o	f students	Percentage
	of complai				Percentage
Number o	of complai		Total number o		Percentage NA
Number of about eva	of complai aluation	nts or grievances	Total number o appeared in the NA		
Number of about eva	of complai aluation N	nts or grievances IA mance and Learni	Total number o appeared in the NA ng Outcomes	examination	NA NA
Number of about evaluation about evaluat	of complaination Note the properties of the pro	nts or grievances IA mance and Learni omes, program spec	Total number of appeared in the NA ng Outcomes ific outcomes and of	examination	NA NA
Number of about evaluation about evaluation and evaluation about evaluatio	of complaination N ent Perfor gram outco	mance and Learni omes, program speciered by the instituti	Total number of appeared in the NA ng Outcomes ific outcomes and of	examination	NA NA
Number of about evaluation about evaluation 2.6 Stude 2.6.1 Profer all professions about evaluation about ev	of complaination N ent Perfor gram outco	nts or grievances IA mance and Learni omes, program spec	Total number of appeared in the NA ng Outcomes ific outcomes and of	examination	NA NA
2.6 Stude 2.6.1 Pro for all pro (to provide	of complaination Note the Perfore gram outcoograms officient the web.	mance and Learni omes, program speciered by the instituti	Total number of appeared in the NA ng Outcomes ific outcomes and of on are stated and displayed and displayed are stated.	examination	NA NA
2.6 Stude 2.6.1 Pro for all pro (to provide	ent Perfor gram outco ograms off de the web	mance and Learni omes, program spectored by the institutional ink)NA	Total number of appeared in the NA ng Outcomes ific outcomes and of on are stated and displayed and	examination	NA es bsite of the institution

NA	NA	NA	N	ÍΑ		NA	
2.7 Student							
			y (SSS) on overall in		nal performance (In	nstitu	tion may design the
questionnaire	e) (results ar	nd detai	ls be provided as we	eblink)			
NA							
	CDITEDI	ON III	DECEADOU I	NNOVA	TIONE AND EX	or e si	CION
	CRITERI	UN III	- RESEARCH, I	NNUVA	THUNS AND EX	IEN	SIUN
3.1 Promotio	n of Resear	rch and	Facilities				
			ed money to its teac	hers for	research		
	s give detail		ed money to its tede	11013 101	researen,		
Name of the t			mount of seed	Year of	receiving grant	Dura	ation of the grant
getting seed n		mone		1	receiving grant		ation of the grant
Nil	<i> </i>	Nil	,				
3.1.2 Teacher	rs awarded	Nationa	l/International fello	wship fo	r advanced studies	/ resea	arch during the year
	Name	of the	Name of the Av	ward	Date of Award	d	Awarding Agency
	teac	her					
	awarde	ed the					
	fellow	shin					
National	N/	-	NA		NA		NA
National	1112	1	INA		INA		IVA
Internationa	l NA		NA		NA		NA
						•	

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
Minor Projects		Nil	Nil	Nil
Interdisciplinary Projects		Nil	Nil	Nil
Industry sponsored Projects		Nil	Nil	Nil
Projects sponsored by the University/ College		Nil	Nil	Nil
Students Research Projects (other than compulsory by the College)		Nil	Nil	Nil
International Projects		Nil	Nil	Nil
Any other(Specify)		Nil	Nil	Nil
Total		Nil	Nil	Nil
3.2.2 Number of ongoing resagencies during the years f		cts per teacher fund	ded by governm	ent and non-government
3.3 Innovation Ecosystem				
3.3.1 Workshops/Seminars C		Intellectual Proper	ty Rights (IPR)	and Industry-Academia
Innovative practices during the		NT C.1	D (D (()
Title of Workshop/Semina	ar Nil	Name of the	Dept.	Date(s)
Nil	INII			

Title of innova		Name of Awar		Awarding Agency	Date of Award	Category
Nil	1	NIL		NIL	NIL	NIL
3.3.3 No. o	f Incubatio	n centre o	created, sta	rt-ups incubated on o	campus during the	year
Incut	oation Cent	tre		Name		Sponsored by
	NA		NA		NA	
			I	2.0		
	of the Star	t-up		lature of Start-up		te of commencement
NA			NA		NA	
3.4 Researce	ch Publicat	ions and A	Awards			
3.4.1 Ph. D	s awarded	during th	e year			
	me of the				No. of Ph. Ds A	warded
	Phys	sics			Nil	
3.4.2 Resea				s notified on UGC w		
	Departme	ent	No. of P	ublication	Average In	mpact Factor, if any
National						
Internatio nal	Physics	s	1	03		2.5
3.4.3 Book Conference				nes / Books published	d, and papers in Na	ational/International
		rtment			No. of publ	ication
					Nil	

3.4.4 Pate	nts p	ublished	/award	ed du	ring the ye	ear							
Patent De	tails				atent status Published/ Filed	_	Patent Num	ber		Date of	of Av	vard	
	N	Til		Nil			Nil			Nil			
3.4.5 Biblio of Science of			_		-	last A	Academic ye	ar t	oased on	average	citat	ion index in	Scopus/ Web
Title of the Name of the author			Title	Title of the Ye		Year of Citati publication		Citation	Index	affil men	tutional iation as tioned in oublication	Number of citations excluding self citations	
										SDMCET		ИСЕТ	
3.4.6 h-ind						durii	<u> </u>						
Title of the paper	Nan auth	ne of the nor	Title o journa		Year of publication	1	h-index					Institutiona mentioned publication	in the
3.4.7 Facu	lty p	articipati	on in S	Semin	ars/Confer	ence	es and Sym	pos	sia durin	g the ve	ear :		
No. of Fac Attended Seminars/ Workshops	ulty		nternati				National					level	Local level
Presented papers													
Resource Persons													
3.5 Consul	tanc	у											

Name of the	N	lame of	Cons	ulting/Spor	nsoring		Revenue	e gei	nerated (amount in	
Consultant(s)	C	Consultancy project	Ager		Ü		rupees)		,	
department		• • •		•						
Nil	N	Til	Nil				Nil	Vil		
		erated from Corpora	ate Tra	ining by the				ar		
Name of the	he	Title of the		Agency Revenue generate				Number of trainees		
Consultant(s) &	Programme		seeking (amount in rupees)		upees)				
Departme	nt			training						
NA		NA	NA NA NA							
3.6 Extensio	n Act	tivities								
									ry, community and Non-	
Government C	Organi	sations through NSS/	NCC/I	Red cross/Yo	outh Red C	Cross (Y	RC) etc., o	durin	ig the year	
Title of the	Org	anising unit/ agency/		Number of	teachers	co-ordi	nated N	Num	ber of students	
Activities	colla	aborating agency		in such acti	ivities		ļ ķ	parti	cipated in such activities	
Nil	Nil			Nil			1	Nil		
		recognition received	for ex	ktension act	ivities fro	om Gov	ernment	and	other recognized bodie	
during the ye										
Name of the	Activ	ity Award/re	cognit	ion		Award	ing bodie	S	No. of Students	
									benefited	
N	Vil	Nil				Nil			Nil	
3.6.3 Student	ts part	ticipating in extension	n acti	vities with	Governm	ent Org	anisation	ıs, N	on-Government	

Collaborative Research Dr. P.V Raghavendra Self finance 3.7.2 Linkages with institutions/industries for internship, on-the-job training, project work, sharing or research facilities etc. during the year Nature of linkage linkage linkage institution/ industry /research lab with contact details NA NA NA NA NA NA 3.7.3 MoUs signed with institutions of national, international importance, other institutions, industricorporate houses etc. during the year Organisation Date of MoU Purpose and Signed Number of students/tear participated under Mount of the partnering partnering participated under Mount of the partnering part	scheme	Organising agency/ collaborating agency		the activity	Number of teacher co-ordinated such activities	
3.7.1 Number of Collaborative activities for research, faculty exchange, student exchange during the Nature of Activity Participant Source of financial support Duration	Nil	Nil	Nil		Nil	Nil
Nature of Activity Participant Source of financial support Duration Collaborative Research Dr. P.V Raghavendra 3.7.2 Linkages with institutions/industries for internship, on-the-job training, project work, sharing or research facilities etc. during the year Nature of I Title of the linkage	3.7 Collabo	rations				
Nature of Activity Participant Source of financial support Duration Collaborative Research Dr. P.V Raghavendra 3.7.2 Linkages with institutions/industries for internship, on-the-job training, project work, sharing or research facilities etc. during the year Nature of I Title of the linkage l	3.7.1 Number	er of Collaborativ	ve activities for	research, faculty	y exchange, studer	nt exchange during the year
3.7.2 Linkages with institutions/industries for internship, on-the-job training, project work, sharing or research facilities etc. during the year Nature of linkage linkage linkage institution/ industry /research lab with contact details NA NA NA NA NA NA 3.7.3 MoUs signed with institutions of national, international importance, other institutions, industricorporate houses etc. during the year Organisation Date of MoU Purpose and Number of students/teach signed Activities participated under Mount of the properties of the participated under Mount of the participate						Duration
3.7.2 Linkages with institutions/industries for internship, on-the-job training, project work, sharing or research facilities etc. during the year Nature of Title of the Name of the partnering Duration participal institution/ industry /research (From-To) lab with contact details NA NA NA NA 3.7.3 MoUs signed with institutions of national, international importance, other institutions, industric corporate houses etc. during the year Organisation Date of MoU Purpose and Number of students/teach participated under Mouse pa	Collabora	tive Research	Dr. P.V	Self finance		2022-23
Nature of Title of the Name of the partnering Duration participal institution/ industry /research (From-To)			Raghavendra			
3.7.3 MoUs signed with institutions of national, international importance, other institutions, industric corporate houses etc. during the year Organisation Date of MoU Purpose and Signed Number of students/teach Activities participated under Mou	Nature of linkage	Title of the linkage	Name of the institution/ ind lab with con	ustry /research	(From-To)	participant
Corporate houses etc. during the year Organisation Date of MoU Signed Signed Purpose and Activities Purpose and Purpose		NA	NA		NA	NA
participated and city	NA					
	3.7.3 MoUs corporate ho	ouses etc. during	the year Date of MoU	J Purpose	and Nur	mber of students/teachers
	3.7.3 MoUs corporate ho	ouses etc. during	the year Date of MoU	J Purpose	and Nur	· · · · · · · · · · · · · · · · · · ·

CRITER	ION IV – INFRA	STRU	CTURE A	AND LEA	RNING	RESOURCES
4.1 Physical Facilities						
4.1.1 Budget allocation, e	excluding salary for	r infras	tructure a	ugmentatio	on during	the year
Budget allocated for						tructure development
augmentat	ion					-
Nil					NA	
4.1.2 Details of augments	ation in infrastructu	ıre facil	lities durir	ng the year	•	
Facilities				E	xisting	Newly added
Campus area						
Class rooms						
Laboratories					01	
Seminar Halls						
Classrooms with LCD fa	cilities		05			
Classrooms with Wi-Fi/					05	
Seminar halls with ICT f	acilities					
Video Centre						
No. of important equipme current year.	ents purchased (≥ 1	-0 lakh	a) during t	he	Nil	
Value of the equipment p	ourchased during th	e year ((Rs. in			100000
Lakhs)		•				
Others				Nil		Nil
4.2 Library as a Learni	ng Resource					
4.2.1 Library is automa	ted {Integrated Li	ibrary	Managen	nent Syste	m (ILM	S)}
Name of the ILMS	Nature of automation (fully or Ver		Version		Year of automation	
software	partially)	(
NA	NA	NA NA		NA		NA
4.2.1 Library Services:			•			
	Existing		Newly	added		Total

			No.	. Vai	lue	No.	Va	alue	No.	Value Val	lue
Text Boo	oks		NA	NA		NA	NA		NA	NA	
Referenc	e Books	S	NA	NA		NA	NA		NA	NA	
e-Books			NA	NA		NA	NA		NA	NA	
Journals			NA	NA		NA	NA		NA	NA	
e-Journa	ls		NA	NA		NA	NA		NA	NA	
Digital D	atabase	;	NA	NA		NA	NA		NA	NA	
CD & Vi	ideo		NA	NA		NA	NA		NA	NA	
Library a	utomati	ion	NA	NA		NA	NA		NA	NA	
Weeding	(Hard d	& Soft)	NA	NA		NA	NA		NA	NA	
Others (s	specify)		NA	NA		NA	NA		NA	NA	
Graduate	e) SWA` nal (Lea	YAM othe arning Mar	r MOO	Cs platform nt System	m NPTI (LMS)	EL/NM	m on	/any o	other Gov	PG-Pathshala CEO vernment initiative Date of launching	s &
						_ ,, _					
4.3 IT I		ucture y Upgrada	tion (ox	verall)							
7.3.1 100	Total	Comput	Inter	Browsin	Compi	ıt Of	fice	Den	artments	Available band	Others
	Com	er Labs	net	g	er	ut O1	1100	Бер	ai tillellts	width	Onlers
	puter	CI Laus	lict	Centres	Centre	es				(MGBPS)	
	S			221111 05		-				(1.13215)	

Existing	04	Nil	Nil	Nil	Nil	01	Physics	200	MGBPS		
Added	00	Nil	Nil	Nil	Nil	00	Physics	5			
Total	04	Nil	Nil	Nil	Nil	01	Physics	3			
		available			ection in	the Institu	tion (Lease	d line)			
4.3.3 Fa	cility fo	r e-conten	 t								
Name of the e-content development facility Provide the link of the videos and media centre and recording facility											
NA NA											
4.4 Mair	ıtenanc	e of Cam	ous Infi	astructur	e						
4.4.1 Exp	penditur	e incurred	on ma			cal facilitie	s and acade	emic supp	ort faciliti	es, excluding	
Salary component, during the year Assigned budget											
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)											
					-						

	(CRITE	RION V - STU	DENT	SUPPORT A	ND P	ROGRESSION			
5.1 Stu	ident Support									
5.1.1 \$	Scholarships ar	nd Fina	ncial Support							
	-	Nam	ne /Title of the scheme	Nun	nber of students	Amount in Rupees				
	al support stitution	NA		NA		NA				
Financi	al support from	other so	ources							
a) Natio	onal	NA		NA		NA				
b) Inter	national	NA		NA		NA				
	e of the capabi ancement schen	•	Date of implementati	on	Number of student enrolled	dents	Agencies	involved		
	ion during the Name of the	year Numb	per of benefited	Num	ber of benefited	N	areer counselling of	Number of		
	scheme		nts by Guidance for petitive examination		ents by Career aselling activities		ho have passed in the impetitive exam	students placed		
2022- 23	NA	NA		NA		N	4	NA		
			m for transparences during the yea	•	ely redressal of s	studen	t grievances, Preve	ntion of sexual		

Total gri	evances 1	eceived	No. of gri	evances redres	ssed	Average redressa	number of days fo	or grievance	
NA			NA			NA			
5.2 Stud									
5.2.1 De	tails of ca	impus placem	ent during	the year					
	Oı	n campus					f Campus		
Nam	e of	Number of	Students	ents Number of Stud			Number of Studen	ts Placed	
Organiz	zations	Partici	pated	Placed	d				
Visited			-						
N.	NA NA			NA		NA			
5 2 2 840	dont nes	rraggion to hi	ahan adusat	ion in novement	ogo dumi	na tha waa			
				ion in percent				l NI C	
Year		of students	_	mme graduated	Departn		Name of	Name of	
		into higher	from	rom gradua		ed from	institution joined	Programme	
	education	1						admitted to	
2022-23	NA		NA		NA		NA	NA	
5.2.3Stu	dents qua	lifying in stat	e/ national/	international	level ex	amination	s during the year (eg:	
	-						Government Service	•	
	Ite	ems		No. of Stude	ents sele	cted/	Registratio	n number/roll	
				qual	lifying		number f	or the exam	
NET	NET			N	ĪΑ			NA	
SET				N	NΑ			NA	
SLET		N	NΑ			NA			
GATE			N	NΑ			NA		
GMAT				NA			NA		

			NA				
			NA			NA	
			NA		NA		
es			NA		NA		
nment S	Services		NA			NA	
Any Other			NA			NA	
and cultu	ıral activities	s / competitions org	ganised at the i	nstitution leve	el during the year		
y		Level			Participants		
	NA		NA				
nt Part	ticipation	and Activitie	<u>s</u>				
er of aw	ards/medal	s for outstanding	performance			at	
	,	National/ International	Sports	Cultural	Student ID number	Name of the student	
A		NA	NA	NA	NA	NA	
Engage ner the ir	of the institement ement nstitution ha	ution (maximum as registered Alui	500 words)				
a a a a a a a a a a a a a a a a a a a	nment Some of the dal A Some o	nment Services NA NA Terricipation Participation Participatio	ment Services Indicultural activities / competitions orginal Level NA It Participation and Activities For of awards/medals for outstanding rnational level (award for a team evalue of the award/ National/ International NA Indicate of the institution (maximum) Indicate of the institution (maximum)	ment Services NA NA Indicativities / competitions organised at the information and activities Participation and Activities Per of awards/medals for outstanding performance rnational level (award for a team event should be me of the award/ National/ International NA NA NA NA Ty of Student Council & representation of student in titees of the institution (maximum 500 words) Engagement er the institution has registered Alumni Association.	ment Services NA NA Ind cultural activities / competitions organised at the institution level. Level NA NA NA NA Reparticipation and Activities For of awards/medals for outstanding performance in sports/cultural special international level (award for a team event should be counted as some of the award/ National/ International NA NA NA NA NA NA Porticipation and Activities Prof awards/medals for outstanding performance in sports/cultural special international NA NA NA NA NA NA Prof Student Council & representation of students on academ interes of the institution (maximum 500 words) Engagement Prof Repair Council & representation of students on academ interes of the institution (maximum 500 words)	nment Services NA NA Indicator activities / competitions organised at the institution level during the year Level NA NA NA NA NA NA NA NA NA N	

- 5.4.3 Alumni contribution during the year (in Rupees): NA

 5.4.4 Meetings/activities organized by Alumni Association: NA

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

Yes/No/Partial: Yes

500 words) ----

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

* 5	Student Admission and	d Support								
*]	Examination									
	ulty Empowerment S									
	achers provided with		t to attend co	nfere	ences / wo	rkshops and t	owards	membership		
fee of p	ofessional bodies dur	ing the year								
Year	Name of teacher	Name of cont	forman a a /		Noma of	the professio	m o 1	Amount of		
i eai	Name of teacher			ch		-		support		
		*	workshop attended for which body for which membership support financial support provided fee is provided							
2022-		Nil								
23										
	6.3.2 Number of professional development / administrative training programmes organized by the Colleges									
	ning and non teaching		•	1						
Year	Year Title of the Title of the administrative Dates No. of No. of									
	professional	training pro		(1	rom-to)	participa		participants		
	development	organised for r	_			(Teaching	staff)	(Non-teaching		
	programme	staf	TT .					staff)		
	organised for									
	teaching staff				_					
	Nil	Nil		Ni	l	Nil		Nil		
6.3.3 No	o. of teachers attending	g professional de	evelopment pi	rogra	ammes, viz	z., Orientatio	n Progra	amme,		
	er Course, Short Term		y Developmen	ıt Pr	ogrammes	during the y	ear			
Title	of the professional de	evelopment	Number o	f tea	achers who	attended	Date	e and Duration		
	programme						((from – to)		
624 E	la aviler, and Chaff na ama	itano ant (no fon a								
0.3.4 F	aculty and Staff recru		bermanent reci	ruiti	nent):		•			
	Teachin	<u> </u>				Non-teach				
	Permanent	Fulltime			Permaner	nt	F	Fulltime		
	elfare schemes for									
Teachin	g									

Non teaching					
Students					
6.4 Financial Managem	ent and Resource	e Mobilization			
6.4.1 Institution conducts (with in 100 words each		ernal financial audits regularly			
5.4.2 Funds / Grants received: Grants received: Grants received: Grants received: Grants received: 6.4.2 Funds / Grants received: Grants recei	`	gement, non-government bodies, inc	lividuals, pl	hilanthro	opies during
Name of the non gove		Funds/ Grants received in	n Rs.	I	Purpose
agencies/ ind	ividuals				
Nil		Nil		Nil	
6.4.2 Total corpus fund g	eneratedNil				
6.5 Internal Quality Ass	surance System				
6.5.1 Whether Academic	and Administrat	ive Audit (AAA) has been done?			
Audit Type		External		Interna	ıl
	Yes/No	Agency	Yes/I	No	Authority
Academic	Yes	Faculty from other Institution	Yes	s	Internal Faculty
Administrative	NA	NA	NA	1	NA
6.5.2 Activities and suppo	ort from the Pare	nt – Teacher Association (at least th	ree) NA		
6.5.3 Development progr	ammes for suppo	ort staff (at least three) NA			

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

6.5.5

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

6.5.6 Number of Quality Initiatives undertaken during the year

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

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	Nil	Nil
Nil			

7.1.2 Environmental Consciousness and Sustainability/Alternate Energy initiatives such as: NA 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	NA	NA
Provision for lift	NA	NA
Ramp/ Rails	NA	NA
Braille Software/facilities	NA	NA
Rest Rooms	NA	NA
Scribes for examination	NA	NA
Special skill development for differently abled students	NA	NA
Any other similar facility	NA	NA

7.1.4 Inclusion and Situatedness

Enlist mos	st important initiative	s taken to address	locational adva	intages a	ınd disadvar	ntages during t	he 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 (initiativ		ssues addressed	Number of participating students and staff
NA	NA	NA	NA	NA	N	IA	NA
	nan Values and Profesonduct (handbooks) f		olders				
	,				Follow u	p (maximum	100 words
	Title	Date of Publication		each)			
NA		NA 1		NA			
716 4 -4:-			1 X 7 - 1	1 E41-1			
7.1.6 Activ	vities conducted for p Activity		ersal values and Duration (from-)	Number of	participants
NA NA			NA		,	NA NA	
7.1.7 Initia	atives taken by the in	stitution to make	the campus eco-	friendly	(at least fiv	re) Yes	
				-		-	
7.2 Best I							
	t least two institution	-		.1		NAAGG	. •
	tails of two best prac website, provide the		implemented b	y the ins	stitution as p	er NAAC for	nat in your
	itional Distinctivene						
	e details of the perform		itution in one a	ea distir	nctive to its	vision priority	y and thrust
	e weblink of the insti				ictive to its	vision, priority	y and tinust

SUMMARY OF NOTEWORTHY OUTCOMES

Year 2022-23 [July to June]

Department of Physics

Sl. No	Outcome	Baseline 2022 Jan-Dec	Current 2022-23 Jan-June 2022 July22- June23
1	Indexed Journal Publications	02	01+03=04
2	Other – Paper/article Publications	Nil	Nil
3	Book Publications	Nil	Nil
4	Book Chapter Publications	Nil	Nil
5	IPR Publications	Nil	Nil
6	IPR Granted	Nil	Nil
7	No. of Funded Projects sanctioned	Nil	Nil
8	Total Funds Received.	Nil	Nil
9	Total Projects- Ongoing	Nil	Nil
10	% Of Placement	NA	NA
11	No. of Offers	NA	NA
12	Highest Package L/A	NA	NA

13	Lowest Package L/A	NA	NA
14	% - of Students Graduated	Nil	Nil
15	No. of startups	NA	NA
16	Consultancy Total Number: IRG generated:	Nil	Nil
17	No. of Conferences Conducted	Nil	Nil
18	No. of Workshops/ Seminar/ conducted	Nil	Nil
19	No. of Workshops/ Seminar/ conferences attended (Faculty + Students= Total)	02	02+00=02
20	No. of awards / recognitions received (Faculty + Students + dept/Institution= Total)	Nil	Nil
21	No. of New Infrastructure / Programs/space/laboratories created	Nil	Nil
22	No. of networking/society connect programs conducted.	01	Nil
23	No. of learning materials created and published	Nil	Nil
24	No. of new process/procedures added.	Nil	Nil
25	No. of products/ Applications created	Nil	Nil
26	Budget Sanctioned	1,15000	1,25000

	In Lakhs of rupees		
Total Expenditure		50,000	100000
	In Lakhs of rupees		
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.

SDM College of Engineering & Technology, Dharwad Department of Physics

SI. No.	Best practices
1	Active teaching techniques are adopted for theory and laboratory courses, such
	as encouraging the students to involve and contribute to the topic under
	discussion.
2	Before commencement of each UNIT in the class-room, faculty meeting will be
	held to discuss the lesson plan of that UNIT. Implementation of learning
	objectives; expectations from the students after learning the UNIT will be
	discussed.
3	Short-time activities (2 – 4 min) are planned during the class hours to express the
	abilities and interests of the students. Sometimes, faculty members may share
	their motivational (research / academic) experiences with students.
4	Faculty members will design a case study problem on the topic taught. It will be
	given to the group of students to solve. The case study problem may be
	experimental based or analytical based. To solve the case study student should
	have the thorough knowledge of the topic taught. Purpose of the case study is to
	make student apply their knowledge in design or to improve their experimental
	skill.
 	

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of **43**

FUTURE PLANS OF ACTION FOR NEXT ACADEMIC YEAR: 2023-2	4
Science awareness program in nearby village	
2. Submitting 01research project proposals for funding	
3. Supporting for the improvement in institute National level ranking (NIRF)	

Dr. P. V. Raghavendra

Dr. K.I. Maddani

Name & Signature of the Coordinator-IQAC

Name & Signature of the Head

Date: 01-07-2023

SDM College of Engineering and Technology Dhavalagiri, Dharwad-580002

Department of Physics

STRATEGIC PLAN (2022-23) IMPLEMENTATION REPORT



[2022-23]

1st July 2022 to 30th June 2023

Date of Publication: 1st July 2023

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

INTRODUCTION:

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

AUDIT TEAM:

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

INSTITUTIONAL VISION AND MISSION:

VISION:

To develop competent professionals with human values.

MISSION:

- M1. To have contextually relevant Curricula.
- M2. To promote effective Teaching Learning Practices supported by Modern Educational Tools and Techniques.
- M3. To enhance Research Culture.
- M4. To involve the Industrial Expertise for connecting Classroom contents to real-life situations.
- M5. To inculcate Ethics and soft-skills leading to overall personality development.

ADDITIONAL FOCUS:

F1: Curriculum relevance- M1

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

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

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

F5: Community oriented services- M3 & M5

F6: Placement.

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

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

CONTACT DETAILS:

1. Dr.KumarI.Maddani, Professor and Head, Department of Physics, SDM College of Engineering and Technology, Dharwad-580002.

Email: ki maddani@rediffmail.com

Mobile: 9008448957

2. Dr. P. V. Raghavendra, FacultyI/C- Strategic Plan, Department of Physics, SDM College of Engineering and Technology, Dharwad-580002.

Email: pvrkaranth@gmail.com

Mobile: 9741997904

		Year 2022					
			Auditors				
Focus [1] Perspective Key Areas [2]	Key Areas	PLANNING [3]	Outcomes achieved [4]	Reasons for any deviatio n [5] Further action plan, if applicabl e [6]			
F1 / M1	Re-establishing the relevance of critical thinking in Course outcomes and raising learning levels focusing on Experiential learning of NEP-2020.	Activity-1: BOS Meet. Outcome/Target: 1.To revise and reframe the syllabus to fulfill OBE. In-charge Faculty: Dr. K I Maddani, Phone no: 9008448957 Email: ki_maddani@rediffmail.com	 BOS meet was conducted on 10th Aug 20 of GIT, Belagavi attended the meeting and on syllabus revision. Syllabus is revised for a tune of 10%. BOS report in a prescribed format is docur 	d gave useful feedback			
Curriculu m Relevance	Re-establishing the relevance of Program Articulation Matrix-PAM	Activity-1: DUGC Meeting Outcome/Target: 1. To conduct reviewmeeting on the relevance of Program Articulation Matrix. In-charge Faculty: Dr. K I Maddani Phone no: 9008448957 Email: ki_maddani@rediffmail.com	 The Pre-BOS meeting of DUGC member 2022 at 3.00 PM Discussed with the DUGC members on Matrix (PAM) and concluded to continue v 	Program Articulation			
	Conducting internal and External Audits	Activity-1: Annual Academic audit Outcome/Target: 1. Internal Annual academic audit by	Conducted Internal Annual academic audit	t by Dr. Varsha Joshi			

	IQAC	of IQAC cell on Date: 02.09.2022.
	2. External annual academic audit by experts from IIT or NIT.	2. Conducted external annual academic audit by Dr. R. Prabhu , Department of Physics, IIT Dharwad , on Date-23.07.2022. It is suggested that,
	Faculty Incharge: Dr. K I Maddani Phone no: 9008448957 Email: ki maddani@rediffmail.com	a. Desired duration for Practical courses is 3 hours instead of 2 hours.b. Softskill related activities may be included in the academic curricula.
Others- if any		

		Year 2022			
Focus	Perspective/ Key Areas		Observations / Rema	rks by Audito	ors
[1]	[2]	PLANNING [3]	Outcomes achieved [4]	Reasons for any deviation [5]	Further action plan, if applicable [6]
F2 M1,M2,M4 Exam Results	Bridge Courses	Activity-1: Identification of Slow learners Outcome/Target: 1.To identify slow learners who perform below the set target. Activity-2: Counseling of Slow learners for Extra classes Outcome/Target: 1.To improve the academic performance of the slow learners Budget: NIL	 After II IA, students who secured lead together are identified and reported to Impact: 5 in the scale of 1(least) to 5 Identified 20 Students are counselled shown interest in attending additional suggested and agrreed to get the clarification. Impact: 3 in the scale of 1(least) to 5 	the HOD. (high). d and most of the ional tutorial classification for their definition of the definition o	students have not sses. Instead they

Tutorials for complex courses	In-charge Faculty: Dr. BahubaliMurgunde Phone no: 9008109930 Email: bkmurgunde@gmail.com Activity-1: Tutorial classes on selected topics Outcome/Target: 1.To enhance the academic performance of the students Budget: NIL In-charge Faculty: Dr. BahubaliMurgunde Phone no: 9008109930 Email:	The tutorial classes were conducted for subjects designed in the curriculum and masked in the course file.
Strengthening Experiential Learning component	hkmurgunde@gmail.com Activity-1: Identification of Topics/experiments for Case study Outcome/Target: 1. To improve the experimental learning ability 2. Study of electrical properties of metals of given length In-charge Faculty: Prof. Praveen N. Vaidya Phone no: 9741731113 Email: pnvaidya1@gmail.com	 Identified the topic entitled"Study of electrical properties of metals of given length" for <u>case study</u>. 2. 2nd Semester B division Students studied the electrical properties of copper wire of given length on 05-11-2022, at 2.30 PM in the Physics lab. 20 students demonstrated the experiment and submitted the report. Impact :3 in the scale of1(least) to5 (high).

Industry Connectivity for Class		
Connectivity		
for Class	 	
room		
Others- if any	 	

		Year 2022							
	Perspective/		Observations / Remarks by	Auditors					
Focus [1]	Key Areas [2]	PLANNING [3]	Outcomes achieved [4]	Reasons for any deviation [5]	Further action plan, if applicable				
F3 M3	Quality assessment of all research proposals	Activity-1: Research Review committee Outcome/Target: Formation of Research Review committee In-charge Faculty: Dr. P. V. Raghavendra Phone no: 9741997904 Email: pvrkaranth@gmail.com	Research Review committee is established with following 1) Dr. K. I. Maddani - Chairman 2) Dr. P.V. Raghavendra - Member	g faculty members	S				
Researc	IPR:								
h	Copyrights and Patents								
	Paper Publications	Activity-1: Paper Publications	<u>02 faculty members</u> published research paper in the inte	ernational journals					

Outcome/Target:

1. Publishing 02 papers in international journals

In-charge Faculty:

Dr. P. V. Raghavendra Phone no: 9741997904 Email: pvrkaranth@gmail.com 1)Paper entitled "ZnO:Ca MSM ultraviolet photodetectors", published in Optical Materials, 124 (2022) 111960by **Dr. P. V. Raghavendra et al** in the month of February 2022.

(Scopus indexed, Elsevier Publication)

Quartile:Q2

2) Paper entitled "Formation and characterization of Oleylamine stabilized Ceria nanoparticles", published in Materials Today: Proceedings, 2022, 67, pp. 210–214by **Dr. Bahubali Murgude** et al in the month of July 2022. (Scopus indexed, Elsevier Publication)

Funded Projects

Activity-2: Funded Projects

Outcome/Target:

1. Submitting upto 02 research project proposals for funding

In-charge Faculty:

Dr. P. V. Raghavendra Phone no: 9741997904 Email: pvrkaranth@gmail.com

Submitted 03 Research and 02 FDP proposals for funding by VGST

- 1) Submitted the research proposal Entitled "Design and development of low cost energy storage devices by synthesizing nanostructured metal oxides" of amount of 3.00 lac for VGST under RGS scheme by **Dr. Bahubali Murgude**(PI) in the month of Feb-2022.
- 2) Submitted the research proposal Entitled "Surface Modification of some transparent conducting oxide using some Carbon nanostructures and its applications for photocatalytic activity." of amount of 20 lac for VGST under K-Fist L1 scheme by **Prof Praveen N Vaidya** (PI) in the month of Feb-2022.
- 3) Submitted the FDP proposal Entitled "Novel Low dimensional Semiconductor quantum wells for the Clean energy and degradation of organic hazards" of amount of 3.00 lac for VGST under FDP-ENGG scheme by **Prof Praveen N Vaidya**(PI) in the month of Feb-2022
- 4) Submitted the research proposal Entitled "Synthesis, characterization and biological activities of solid state and solution state metal complexes with P-L and M-L stability constants" of amount of 20 lac for VGST under K-Fist L1 scheme by Prof Praveen N Vaidya(Co-PI) in the month of Feb-2022.
- 5) Submitted the FDP proposal Entitled "Challenges in framing the Basic sciences Curricula in NEP scenario of Technological Education" of amount of 3.00 lac for VGST under FDP-ENGG scheme by Prof Praveen N Vaidya (Co-PI) in the month of Feb-2022

		Year 2022					
T	Perspective/		Observation	ons / Remarks by	Auditors		
Focus	Key Areas	PLANNING	Outcomes achieved	Reasons for any deviation [5]	Further action plan, if applicable [6]		
	Learning for Placement	-NA-	-NA-	-NA-	-NA-		
	Soft Skills						
	Discussion Group						
T. 4	English Communication Skills						
F4 M2 & M5 Value additions	Use of ICT Information Communication Technology	Activity-1 Utilization of Online resources Outcome/Target: 1. Utilization of online resources for teaching learning process. 2. Sharing of learning materials through Google class room and YouTube channel In-charge Faculty: Dr. P. V. Raghavendra Phone no: 9741997904 Email: pvrkaranth@gmail.com	learning pr 2. Learning r	nline resources in regular rocess. esources are shared thro oogle class room and W	ugh Toutube		
	Others- if any						

		Year 2022						
.	- ·		Observations / Remarks by Auditors					
Focus	Perspectiv e/ Key Areas	PLANNING	Outcomes achieved [4]	Reasons for any deviation [5]	Further action plan, if applicable			

F5 Community Oriented	Awareness Program	Activity-1: Awareness Program Outcome/Target: 1. Awareness Program on Importance of NEP 2020 in education for high school students In-charge Faculty: Dr. K I Maddani, Phone no: 9008448957 Email: ki_maddani@rediffmail.com	on Importance of NEP 2020 in education thigh school students on 28-11-22 in the ar hall in association with Vivakanada arwad. It tended and student feedback was taken in the scale of 1(least) to 5 (high).		
Services	Learning Programs through workshops				
M3 & M5	Technology Transfer Programs				
	Others- if any				

	Year 2022						
Focus			Observations / Remarks by Auditors				
1000	Perspective/ Key Areas	PLANNING	Outcomes achieved	Reasons for any deviation	Further action plan, if applicable [6]		
	No. of Offers	-NA-					
F6	No. of students getting Placed	-NA-					
	pay packages being offered	-NA-					
Placement	MoUs		-	-	-		
	Internship	-NA-	-	-	-		
	Others- if any		-	-	-		

		,	Year 2022			
			Observation	ns / Remar	ks by Auditors	
Focus	Perspective	Perspective/ Key Areas	Outcomes achieved [4]	Reasons for any deviation [5]	Further action plan, if applicable	
	NBA Faculty I/C: Prof. Praveen N. Vaidya Phone no: 9741731113 Email: pnvaidya1@gmail.com	Supporting for the attainment of Institutional activity	Furnished the required documents to the higher authorities			
F7 Accreditation	NAAC Faculty I/C: Dr. Bahubali Murgunde Phone no: 9008109930 Email: bkmurgunde@gmail.com	Supporting for the attainment of Institutional activity	Furnished the required documents to the higher authorities ne			
and Ranking	NIRF ranking. Faculty I/C: - Dr. K I Maddani Phone no: 9008448957 Email: ki_maddani@rediffmail.com	Supporting for the attainment of Institutional activity				

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]	
Others						

22Remarks-by the auditing team	n.		

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.

		N	lame and Signatu	re with Date	of the conce	erned author	ity	
2022								
	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