Department of Electronics

Departmental Profile

(2017-2022)

1. Scope and Importance of department.

The Department is conducting courses B.Sc. in Electronics. The aim of this program is to provide the necessary theoretical background and practical experience in order to meet the requirements of the R&D Organizations and Industries. The curriculum of these courses keeps it in consonance with the changing industrial environment. A full range of resources and facilities are available to the students. The department has a well equipped computer laboratory with various circuit design software for students. In addition, there are well equipped laboratories for experimental work in the following areas Communication Electronics, Circuit Design, Microprocessors and Microcontroller.

2. Introduction of Department

Department of electronics is established in 1985. Initially this department was run under Physics Department. The first Head of the Department was appointed in 1994. The Department has well established Laboratory, Departmental Library and having periodicals.

3. Year of establishment : UG 1985

4. Details of Programmes / Courses offered (UG/PG/PhD/Certificate Course/Diploma course) (Academic Year 2022-23)

Name of Programme	Duration	Entry Qualification	Medium of Instruction
B.Sc.(Electronics)	Three Years	Plus Two	English

- 5. Program pattern (Semester / annual/ CBCS): B.Sc.-CBCS
- 6. Number of teaching and non-teaching staff: Teaching: 02 Non-Teaching: 03
- 7. Number of Teaching in the department:

Designation	Sanctioned	Filled
Professor	01	00
Associate Professor	03	00
Assistant Professor	03	02

8. Faculty profile with name, qualification, designation, specialization, (Ph.D. / M. Phil. etc.,)

Sr. No.	Name of faculty	Qualification	Year of appointment	Designation	Specialization	Number of years of teaching experience (Year and months)
1.	Mr.A.S.Biraris	M.Sc.NET	2009	Assistant Professor	Electronics	13Years
2.	Mr.P.A.Morey	M.Sc. SET	2009	Assistant Professor	Electronics	13 Years

9. List of senior visiting faculty: Nil

10.Ongoing /completed research projects by faculty funded by governmental and non-

governmental agencies (Last five years)

Sr.	Name of the	Duration	Name of	Amount	Name o	f Year of	Dept. of
No	principal	of the	the	fund	funding	sanction	recipient
	investigator	project	research	received	agency		
			project				
	Nill						

11. Research papers published in journals notified on UGC website (Last five years)

Sr. No.	Name of Journal	Title of Research Paper	ISSN/ ISBN No.	Whether peer reviewed. Impact Factor, if any
	Nill			

12. Research papers published in National/International Conference-proceedings

Sr.	Name of the Conference	Title of Research Paper	ISSN/ ISBN	Place & Date
No.	Seminar			
02				

13. Number of books and chapter in edited volumes/Books published

Sr.No.	Title of the book/chapter published	National/	Year of	ISBN/ISSN	Name	of	the
		International	publication	No.	publisher		
03							

14. Name of Research Guides:

Sr. No.	Name of research guide	Ph. D/ M. Phil
1.	Nill	

15. Number of Ph. D/ M. Phil awarded by faculty:

Sr.No.	Name of	Name of the	Title of the	thesis	Year	ofYear	of
	Ph. D/M. Phil scholar	Guide/s			registration	ofawards	s of
					scholar	Ph. I	D/ M.
						Phil.	
1	Nil						

16. Faculty as chairman/members in National committees/International Committees/ EditorialBoards/BOS/University committees etc.

Sr. No.		Name of the body in which full time teacher participated	Member of editorial board	Reviewer
1.	Amit SahebraoBiraris	Chairman, F.Y.B.Sc. University paper setter committee		
2		Member T.Y.B.Sc. University paper setter committee	,	
3.	P A VIOREV	Member S.Y.B.Sc. University paper setter committee	,	
4.	Amit SahebraoBiraris	Member , Parish Parsh Yojana		

17. Awards / Recognitions received by faculty:

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	Name of full time teachers receiving awards from state level, National level, International level	C	Name of the award, fellowship, received from government or recognized bodies
Nill			

18.Numbers of awards / Medals for outstanding performance in sports/cultural activities in National/ International/ State level etc. received by students

Year	Name of the	National/International/State etc.	Sports/Cultural	Aadhar/Student	Name	of
	award/Medal			ID No.	the	
					Student	
	Nill					

19. Students Qualifying in State/National/International level examination (NET, SET, GATE, GMAT, GRE, TOEFL/UPSC/MPSC/State government examination, etc.)

Year	Registration No./Roll for the examination		Number of students selected							
		SET	NET	GATE	GMAT	CAT	RGE	TOFEL		State Govt. Examinations/Others
	N.A									

20. Student progression to higher studies. UG to PG, PG to M. Phil., PG to Ph. D, M. Phil to Ph. D, Ph. D to post-Doctoral, etc. *(Last Batch, 2016-17)*

1. UG to PG

Year	Sr. No.	Program Graduated From	Department Graduated from	Student Name	Name of the Institute Joined	Name of the Program admitted
2021- 2022	Nil					
	1	B.Sc. Electronics	S.S.V.P.S Science College, Dhule	Abhishek Sanjay Chaudhari	School of Physical Science, KBC NM University Jalgaon	M.Sc. Electronics
2020-	2	B.Sc. Electronics	S.S.V.P.S Science College, Dhule	BhushanDesale	School of Physical Science, KBC NM University Jalgaon	M.Sc. Electronics
2021	3	3 B.Sc. S.S.V.P.S Scie Electronics College, Dhu		RushukeshGopal Jade	MGSM College , Chopada	M.Sc. Electronics
	4	B.Sc. Electronics	S.S.V.P.S Science College, Dhule	PremrajRajendraPatil	MGSM College , Chopada	M.Sc. Electronics
	5	B.Sc. Electronics	S.S.V.P.S Science College, Dhule	ShubhamDeshmukh	MGSM College , Chopada	M.Sc. Electronics
2019- 2020	NIL					
2018- 2019	Nil					
2017- 2018	Nil					

2. PG to Ph. D or M. Phil to Ph. D.

Sr. No.	Program	Department	Student Name	Name	of	the	Name	of	the
	Graduated	Graduated from		Institute	Joined		Program	admitt	ed
	From								
	N.A								
1.									

22. Placement of outgoing students (Last five years, 2017-2022)

Year	Contact detail	Number of students placed	Name of the employer with contact details	Package received	Program graduated from
2020- 2021	Not Available		PatilKalpesh Sunil Indian Army	3.6 Lacks	S.S.V.P.S.L.K.Dr.P.R.Ghogrey Science College, Dhule
2018- 2019	Not Available	01	BhullarGurjeet Singh Kabul Singh	13.56 Lacks	S.S.V.P.S.L.K.Dr.P.R.Ghogrey Science College, Dhule

	Indian Air Force		
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23.List of alumni/contribution

Sr.	Name o	ofYear	of Position held	Contact detail	Quantum of Contribution
No.	Alumni	Graduation/Post		(Email, Mobile No.)	
		Graduation			
	Nill				

24. List of eminent academicians and scientists / visitors to the department: Nill

25. Seminars/ Conferences/Workshops organized & the source of funding

No.	National/	Name workshop/Se conference	8		Number participants	of
1	Nil					

26. Student profile programme/course wise:

			Enrolled		
Year	Name of the Course/programme (refer question no. 4)	Applications received	*M	*F	Total number of Students
2021-2022	B.Sc.	7	6	1	7
2020-2021	B.Sc.	8	4	2	8
2019-2020	B.Sc.	3	1	2	3
2018-2019	B.Sc.	6	4	2	6
2017-2018	B.Sc.	3	1	2	3

27. Number of linkages for faculty exchange/student exchange/training/internship/field trips/job on training/research etc.

Sr. No.	Title of the	Name of the	partnering	Year	of	Duration	Nature of linkage
	linkage	institution/	•	commencer	nent	(From-To)	
		/research lab v	with				
1	Nil						

28. Number of functional MoU's with corporate houses/ industries/other institutes/Universities, etc.

Organisation	Name of the	Year of	Duration	List the actual	Number of
with which MoU	institution/	signing MoU		activities under	students/teachers
is signed	industry/			each MoU year	participated under
	corporate			wise	MoUs
	house				
Nil					

24. Details of Infrastructural facilities

1. Internet facilities for Staff & Students- Yes

- 2. Class rooms with ICT facility- Yes
- 3. Laboratories-LAB -2

25. List of Equipment's/Instruments

Sr.	Name of equipment	Qty	Rate	Total	Vat/ Tax	Net Amt.
No				Amt	12.50%	
1	Function Generator Systronics 1012	3	10330	30990	3873.75	34863.75
2	Aplab 25 MHz (2 Ch 4 trace) 3802	1	26000	26000	1040	27040
3	Sanva Y X 360 TrjMultimeter Analogue	3	1150	3450		
4	Four Probe Apparatus PISCO	1	19680	19680	3369.38	30324.38
5	Spare Germanium Sample	3	1275	3825		
6	Meco G-9 A Digital Multimeter	6	1575	9450		
7	Rheostat 1.75"×14" 1.8A 110 ohms	5	750	3750	27206.25	24356.25
8	Registance Box 1-500 ohms Maganion Coil	5	1690	8450		

9	Function Generator 20 MHz with 100 Khz Aux Gen. Sys.	1	39900	39900	4987.50	44887.50
Total		28	102350	145495	40476.88	161471.88

	Name of the instrument	<u>Specification</u>	<u>Quantity</u>	Year	
Sr.No					
1	C.R.O (Dual Trace) PM-3206		01	1986-1987	
2	RF Signal Generator 20729		01	1986	
3	Dual Power Supply APLAB 7611 986/1		01	1986	
4	Multimiter (Digital) type 43TT 108		01	1986	
5	IC Tester (Digital) type 910		01	1986	
6	Frequency Counter (10 MHz)		01	1986	
7	Power Supply 614/D		01	1986	
8	Function Generator Type 1014		01	1886	
9	C.R.O (Dual Trace) 20MHz		01	1986	
10	CRO 520		01	1986	
11	CRO sweep delay		01	1986	
12	Simpson Multimeter 260-6M		01	1987-88	
11	Carrying case for MM		01	1987	
12	CRO dual 15MHz	138/80-81	01	1994-95	
13	CRO dual 15MHz	47-85/86	01	1994	
14	CRO dual 15MHz	60-86/87	01	1994	
15	CRO dual 15MHz	84-87/88	01	1994	
16	CRO dual 15MHz	111-88/89	01	1994	
17	P/S Aplab	V-318(138) 81/82	01	1994	
18	Solid state DC P/S	68/87-88	01	1994	
19	P/S 3Amp 0-30V	133-I/89-90	01	1994	
20	P/S 0-30V 2Amp APLAB	160-I/90-91	01	1994	
21	P/S 0-30V (Network)	39/84-85	01	1994	
22	P/S (RADART)	92/87-88	01	1994	
23	Dual P/S twin transister	81/87-88	01	1994	
24	Simpson Multimeter	67/87-88	01	1994	

25	Multimeter (MECO)	132(I)89-90	01	1994
26	Hall Effect Kit	85/87-88	01	1994
27	Four probe res Setup	86/87-88	01	1994
28	Radio Reciever	90/87-88	01	1994
29	AFO (Sine Squate Wave)	V-308/79-80	01	1994
30	AFO Sine square wave	V-319/81-82	01	1994
31	AFO Sine square wave	V-320(I) 81-82	01	1994
32	AFO Sine square wave	32(I) 84-85	01	1994
33	Signal Generator	140(I) 89/90	01	1994
34	AFO Systronics	141-89/90	01	1994
35	RC Oscillator	40-84/85	01	1994
36	DFM	77/87-88	01	1994
37	Frequency Counter	52/86-87	01	1994
38	Function Generator	82/87-88	01	1994
39	Function Generator	139(II) 89-90	01	1994
40	Function Generator 1012		01	1994
41	Function Generator		01	1995-96
42	Frequency Counter		01	1995
43	Digital Multimeter (Meco)	V/PH/EL/492/2 8	01	1995
44	Power Supply	404/95-96	01	1995
45	Germanium Crystal Sample		01	1996-1997
46	Hall Effect Kit		01	1996
47	Spare Hall probe	0		1996
48	DC Voltmeter 0-6 V (MO-65)	V257	02	1997-98
49	Dc milliammeter (0-25mA)	V257	02	1997
50	Dc milliammeter (0-100mA)	V257	02	1997
51	Dc milliammeter (0-150mA)	V257	02	1997
52	DC micro Ammeter (0-100 micro A)	V257	02	1997
53	DC micro Ammeter (0-500 micro A)	V257	01	1997
54	Resistence Box (5000 ohm)	V305	02	1997
54	Resistence Box (5000 ohm)	V305	02	1997
55	Rheostat 3.316 ohm	V305		1997
56	Digital Multimeter (9A)	V313	02	1997
57	Digital Multimeter (9A) (MECO)	V146	02	1998-99

58	Function Generator(4453/4455)	02	1998		
59	Power Supply (Twin Trans. 0-30V)	02	1998		
60	Rheostat 992184 01				
61	Digital Multimeter (Systronics Type-435)	51311	01	2004-05	
62	Power Sypply (Dual Chan 0-30 V) Systronics 615D	51311	02	2004	
63	CRO (25MHz Dual Systronics Type-526	51311	02	2004	
64	Function Gen Type 3002 Sys 2MHz	51311	51311 02		
65	Digital Inverter	01	2005-06		
66	Inverter Battery		2005		
67	AnologMultimeterSanva		03	2006-07 CPE	
68	Four Probe App (PISCO)		01	2006	
69	Spare Germanium Sample		03	2006	
70	Function Generator (Model-1016)20MHz		01	2006	
71	Digital Multimeter (MECO)		06	2006	
72	Rheostat 1100hm		05	2006	
73	Resistance Box 1-5000 ohm		05	2006	
74	Function Generator Sys 1012		03	2006	
75	CRO Aplab 25MHz		01	2006	
76	Canon Laser Printer		01	2008-09	

25. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

20.			
Sr. No.	Enrichment programmes	Experts	
	Nil		

26. Teaching methods adopted to improve student learning

1.Use of Portable Visualizer Document CameraAverVision CP135) for teaching and Demonstrations.

- 2. Use of LCD Projector (PowerPoint Presentation, Video Lecture).
- 3. Use of PSpice and VHDL Simulators for T.Y.B.Sc Particles.
- 4. Use of Simulator Software, 8085 Micro ASM and 8051 SimulatorforS.Y.B.Sc and T.Y.B.Sc Particles

27. Participation in Institutional Social Responsibility (ISR) and Extension activities:

28. Future plans:

1. To arrange a workshop on maintenance and repairing of Electronics Instruments.

2. Linkage with nearby industries.

3. To Organize a lecture on Microcontroller and Automation

4. Collaboration with Industry.

5. To start M.Sc.(Electronics)

1. Retired Faculty profile with name, qualification, designation, specialization, (Ph.D. / M. Phil. etc.,)

Sr. No.	Name of faculty	Qualification	Year of appointment	Designation	Specialization	Number of years of teaching experience (Year and months)
1.	Mr.A.S.Pawar	M.Sc.		Associate Professor	Electronics	28 Years 10 Months
2.	Mr.P.B.Bhadane	M.Sc.		Associate Professor	Physics	33 Years 20days