



Evaluative Report of the Department of Electronics

1. **Name of the department :** **Electronics**
2. **Year of Establishment:-** **15-06-1978**
3. **Names of Programs / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):-**
 - i. **UG (B.Sc Ist, IInd, IIIrd year)**
 - ii. **M. Phil.**
 - iii. **Ph. D.**
 - iv. **Mobile Repairs Certificate add-on-course (U.G.C-COC)**
4. **Names of Interdisciplinary courses and the departments/units involved:-**
 - **Department of Physics.**
 - **Department of Computer Science, BCS for the interdisciplinary courses.**
 - **Department of Physics, Electronics and Mathematics for the Research.**
 - **Thin Films & Material Research Laboratory for research students.**
5. **Annual/ semester/choice based credit system (program wise):-**
 - **Semester – S.R.T.M.U. Nanded.**
 - **Internal Theory exams.**
 - **Assignments/Internal MCQ exam.**
6. **Participation of the department in the courses offered by other departments:-**
 - **Dr. J. S. Dargad guides to one Research Fellow in major project sanctioned by U.G.C.**
 - **The faculty member Dr. L.V.Thakre Guides the students of Ph. D. and M.Phil. in the Department of Physics/Electronics SRTM University, Nanded**
 - **The faculty member Dr. L.V.Thakre Guides the students of M.Sc. in the Department of Computer Science, Dayanand Science College, Latur.**



7. Courses in collaboration with other universities, industries, foreign institutions, etc.:-

The Ph.D., M. Phil., Research work of our department faculty member is in collaboration with the following departments

- National Physical Laboratory, New Delhi.
- Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- School of Physical Sciences, SRTMU Nanded.
- The department of Physics/Electronics has linkages with the research centers SRTMUN, Research Centre.

8. Details of courses/program discontinued (if any) with reasons :- Nil

9. Number of Teaching posts

	Sanctioned	Filled
Professors		
Associate Professors	-	-
Asst. Professors	02(F.T.)	02 (F.T.)
CHB	02	02

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

Name	Qualification	Designation	Specialization	o. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr. J. S. Dargad	M.Sc. M.Phil. Ph.D.	H.O.D.and Associate Professor	Analog Electronics, Digital Electronics, Communication Electronics,	26 Years	Nil
Dr. L. V. Thakre	M.Sc. (Phy.) (Spl. Elect.) M.Sc.(Comp Sci.), B.Ed. Ph.D. LLM	Asst.Prof	Microprocessors, Microcontrollers, Digital Electronics & LASER's	22 Years (Jr. College) 04 yrs. UGC Teacher)	Waiting for allotment from the University



Mrs. S.A. Mirikar	M. Sc.	CHB	Communication Electronics	03	Nil
Mrs. Shinde	M. Sc.	CHB	Analog Ele.	01	Nil

11. List of senior visiting faculty:-

Nil

12. Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty:-

B.Sc. practical – 42.42%

13. Student -Teacher Ratio (programme wise):-

50:2

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:-

i) Laboratory Assistant (1)

ii) Laboratory Attendant (1)

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG :-

i. **Ph.D. - 02**

ii **M. Phil.- 01**

iii **P.G. - 02**

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:-

Nil

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received:-

i) **Dr. J.S. Dargad Major Project from UGC amounting to Rs. 10 lakhs.**

18. Research Centre /facility recognized by the University:-

Under Process

19. Publications:

* a) Publication per faculty

➤ **Dr. J.S. Dargad - 44**

➤ **Dr. L.V.Thakre- 11**



* Number of papers published in peer reviewed journals (national / international) by faculty and students

➤ **National - 05**

➤ **International- 00**

* Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

- | | |
|---|--------------|
| ○ Monographs:- | Nil |
| ○ Chapter in Books:- | Nil |
| ○ Books Edited :- | Nil |
| ○ Books with ISBN/ISSN numbers with details of publishers:- | Nil |
| ○ Citation Index :- | Nil |
| ○ SNIP:- :- | Nil |
| ○ SJR:- | Nil |
| ○ Impact factor :- | 12.25 |
| ○ h-index :- | Nil |

20. Areas of consultancy and income generated :-

Nil

21. Faculty as members in

a) National committees: -

1. Dr. J.S. Dargad

- Member of the Indian Association of Physics Teachers.
- Member of Indian Science congress.
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2. Dr. L.V.Thakre

- Member of Indian Association of Physics Teachers.
- Member of Indian Laser Association.

a) International Committees:-

1. Dr. J.S. Dargad

- Member of
-

b) Editorial Boards:-

Nil

22. Student projects

- a) Percentage of students who have done in-house projects including inter departmental/programme:-

10%

- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies:-

05%

23. Awards/ Recognitions received by faculty and students:-

1. Dr. J.S.Dargad

- Best paper presentation award.
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24. List of eminent academicians and scientists/visitors to the department:-

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

- a)National

Nil

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- b)International

Nil

26. Student profile programme/course wise:- (2012-2013)

Name of the Course/program	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
B.Sc. I st Year	34	34	18	16	26.47%
B.Sc. II nd Year	09	09	05	04	88.88%
B.Sc. III rd Year	08	08	01	07	100%
M. Phil.	Nil	Nil	Nil	Nil	--
Ph. D.	Nil	Nil	Nil	Nil	--
Mobile Repairs Course	16	16	09	07	100.00%

*M=Male F=Female



Student profile programme/course wise:- (2013-2014)

Name of the Course/program	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
B.Sc. I st Year	25	25	15	10	
B.Sc. II nd Year	22	22	11	11	
B.Sc. III rd Year	10	10	04	06	
M. Phil.	-	-	-	-	
Ph. D.	-	-	-	-	
Mobile Repairs Course	15	15	07	08	

*M=Male F=Female

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.Sc. I st Year	100%	00	00
B.Sc. II nd Year	100%	00	00
B.Sc. III rd Year	100%	00	00
M. Phil.	100%	00	00
Ph. D.	100%	00	00
MATLAB Course	100%	00	00

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. :- **No any information is Available**

29. Student progression

Student progression	Against % enrolled
UG to PG	60%
PG to M.Phil.	1%
PG to Ph.D.	1%
Ph.D. to Post-Doctoral	-
Employed	15%
• Campus selection	10%
• Other than campus recruitment	05%
Entrepreneurship/Self-employment	05%

30. Details of Infrastructural facilities

a) Library:- **Books:- 1696, Journals/Periodicals:- 02**

b) Internet facilities for Staff & Students:-

Students-20 Computers, Staff- 02 Computerc) Class rooms with ICT facility:- **01**d) Laboratories:- **02**

31. Number of students receiving financial assistance from college, university, government or other agencies:-

32. Details on student enrichment programs (special lectures / workshops / seminar) with external experts:-

- The special lectures are arranged by the Faculty members for remedial class, and for the advance learning.
- The seminar is arranged for the students in the college on "Higher Education Opportunities in America" By Dr. Shashikant Phadtare interdisciplinary on 8th August 2013.

33. Teaching methods adopted to improve student learning:-

The department follows interactive sessions, group discussion etc. All staff members use computer skill to manage power point presentation in teaching/learning. Apart from the normal lecture delivering method, students are asked to prepare for a lecture on a specified topic and asked to deliver the same in a couple of day.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:- **NSS, Cultural programs**

35. SWOT analysis of the department and Future plans:-

1. Strength:-

- The faculty member of the department is actively engaged in the research, presented research papers in different countries in the international conferences.
- Demand ratio of students for Electronics is preferential.
- Laboratory is well equipped with PCB Design Software, Animation software on Analog and Digital Electronics from Sciencetech. The other softwares like Microvision, MATLAB etc. The software required for Practical purpose are also made available to the students.
- The result is between 80 % to 100%.
- Freedom to faculty members by the principal and management for the development in subject.



- Number of students in Electronics prefers this college for admission as compared to other Colleges in the city.

2.Weakness:-

- This area can not attract international students
- Low Student ratio per Teacher.
- Students less inclination to adopt new methods of learning.
- Financial Weakness of students since belongs to Rural area.

3.Opportunities:-

- Increasing the interest of students in Higher Education & Research.
- To develop the international research centre.
- To attract the foreign student toward this department for UG to Ph. D admissions.
- Good opportunities in the Industrial & private sector.

4. Challenges:-

- Increasing awareness among the students about Electronics.
- Developing the department to have adoptability with new technologies in the field.
- To prepare the students for self employment in the subject.
- Academic and Industrial collaboration in the subject.
- Fulfil the Market requirement of Human Resource in Industrial and Private Sector.

5. Future plans:-

- To start the PG course in Nano-Science and Nano-Electronics.
- To start the international Research centre in Physics, Electronics & Computer Science which is interdisciplinary in nature.
- To take the various projects in Electronics for the students and teachers.
- Participation of students in Seminars and subject activities.
- To take the international conference in the subject
- Development of Electronics laboratories.
- Organize National /International Seminars/workshops.
- Develop a strong network with other institutions.
- Undertaking minor/major research projects.
- Organize guest lectures and seminars.