

## Evaluative Report of Electronics Department (2014 -15)

1. Name of the department :- **Electronics**
2. Year of Establishment :- **1985**
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :- **UG – B.Sc. I / II / III ( Electronics ).**
4. Names of Interdisciplinary courses and the departments/units involved :- **Nil**
5. Annual/semester/choice based credit system (programmewise) :- **Semester System UG - B.Sc. I / II / III ( Electronics ).**
6. Participation of the department in the courses offered by other departments :- **Combination with Physics, Computer Science & Mathematics**
7. Courses in collaboration with other universities, industries, foreign institutions, etc. :- **Nil**
8. Details of courses/programmes discontinued (if any) with reasons :- **Nil**
9. Number of Teaching posts :-

|                      | sanctioned | Filled    |
|----------------------|------------|-----------|
| Professors           | –          | –         |
| Associate Professors | <b>04</b>  | <b>02</b> |
| Asst. Professors     | –          | –         |

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

| Name                   | Qualification        | Designation                | Specilization      | Exper<br>Ience in yrs | Ph.D. Students<br>guided |
|------------------------|----------------------|----------------------------|--------------------|-----------------------|--------------------------|
| <b>Mr. K. V. Pawar</b> | <b>M.Sc. (A.E.)*</b> | <b>Associate Professor</b> | <b>Electronics</b> | <b>28</b>             | –                        |
| <b>Mr. R.R. Zoting</b> | <b>M.Sc. (A.E.)*</b> | <b>Associate Professor</b> | <b>Electronics</b> | <b>27</b>             | –                        |

\* Applied Electronics

11. List of senior visiting faculty :- **Nil**
12. Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty :- **Nil**
13. Student -Teacher Ratio (programme wise) :- **B.Sc.I-26 : 1,B.Sc. II-26:1,B.Sc.III-24:1**
14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

:-

Assistant-Nil, Attendant-02

| Name                     | Qualification | Designation           | Experience in yrs |
|--------------------------|---------------|-----------------------|-------------------|
| <b>Mr. N. A. Tidke</b>   | <b>S.S.C</b>  | <b>Lab. Attendant</b> | <b>25</b>         |
| <b>Mr. G. B. Ajankar</b> | <b>H.S.C</b>  | <b>Lab. Attendant</b> | <b>24</b>         |

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG. :- **Nil**
16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received :- **02 - UGC funding.**
17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received :- **Rs. 1,67,000/- From UGC.**
18. Research Centre /facility recognized by the University :- **Nil**
19. Publications: :- **Nil**
20. Areas of consultancy and income generated :- **Nil**
21. Faculty as members in a) National committees b) International Committees  
c) Editorial Boards.... :- **Nil**
22. Student projects
  - a) Percentage of students who have done in-house projects including inter departmental/programme :- **31.13%**
  - b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies :- **Nil**
23. Awards/ Recognitions received by faculty and students :-
  - **Miss. Riya R. Tekade got 8<sup>th</sup> rank in B.Sc. merit list of SGB Amravati University, Amravati in Summer 2014 examination .**
  - **Miss Riya R. Tekade Scored Highest marks in Electronics subject ( 91.22%) among the colleges run by Shri Shivaji Education Society, Amravati. & Felicitated by Hon'ble Ad. Shri Arunbhau Shelke president, Shri Shivaji Education Society, Amravati on dated 5<sup>th</sup> sept 2014 at Shri Shivaji B.Ed. College, Amravati.**
  - **Miss. Minal K. Pawar got 10<sup>th</sup> rank in B.Sc. merit list of SGB Amravati University, Amravati in Summer 2014 examination .**
24. List of eminent academicians and scientists/ visitors to the department :-

**1. Electronics Association inauguration & speech on ‘Use of Electronics in Routine life by Prof. T. V. Warhakar, Ex-H.O.D. of Mathematics Mahatma Fule M.V. Warud on dated 11<sup>th</sup> Oct. 2014**

**2. The speech on ‘Digital Electronics’ delivered by Mr. Shubham Deshmukh, Sipna Engineering college Amravati on 10<sup>th</sup> Feb. 2015**

25. Seminars/ Conferences/Workshops organized & the source of funding a) National  
b) International :- Nil

**26. Student profile programme/course wise : - NA**

| Name of the Course/programme<br>(refer question no.4) | Applications received | Selected | Enrolled<br>*M *F | Pass percentage |
|---|-----------------------|----------|-------------------|-----------------|
|---|-----------------------|----------|-------------------|-----------------|

\*M= Male F= Female

27. Diversity Students :-

| Name of the Course        | % of students from the same state | % of students from other States | % of students from abroad |
|---------------------------|-----------------------------------|---------------------------------|---------------------------|
| <b>UG-B.Sc. I /II/III</b> | <b>100%</b>                       | <b>Nil</b>                      | <b>Nil</b>                |

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. ? :- **Nil**

29. Student progression :-

| Student progression    | Against % enrolled           |
|------------------------|------------------------------|
| UG to PG               | <b>2014-15 :-<br/>54.16%</b> |
| PG to M.Phil.          | <b>Nil</b>                   |
| PG to Ph.D.            | <b>Nil</b>                   |
| Ph.D. to Post-Doctoral | <b>Nil</b>                   |

| Student progression              | Against % enrolled |
|----------------------------------|--------------------|
| Employed                         |                    |
| • Campus selection               | Nil                |
| • Other than campus recruitment  | Nil                |
| Entrepreneurship/Self employment | Nil                |

30. Details of Infrastructural facilities :-

- a) Library – **Departmental Core Library : 45 books, In Central Library:- 829**
- b) Internet facilities for Staff & Students - **Yes**
- c) Class rooms with ICT facility - **Yes**
- d) Laboratories – **One : To perform practical & Project work.**

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

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts :- **1. Special guest lecture on ‘Embedded System’ delivered by Dr. D. S. Dhote, Head of Electronics Department, Brijla Biyani Science College Amravati on dated 31/1/ 2015**

33. Teaching methods adopted to improve student learning :- **Uses OHP, Display charts, A/V aids & ICT in addition to Chalk-Blackboard for theory & practicals.**

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

**1. B.Sc. III Students prepare the projects every year based on appliances used in daily life**

**2. Mr. Charudatta D. Mohod B.Sc. III participated in 5<sup>th</sup> Indian Student Parliament organized by MAEER’S MIT School of Government Pune on 10<sup>th</sup> to 12<sup>th</sup> Jan. 2015**

**3. Five Students of B.Sc.III Mr. Charudatta D. Mohod, Mr. Movit V. Telmore, Mr. Shubham S. Bute, Mr. Nikhil P. Buwade & Mr. Ashwin P. Ghorsade participated in National Robotics workshop & Championship organized by Department of Computer Science & Electronics Shri Shivaji college of Arts, Comm. and Science, Akola in Collaboration with IIT – Mumbai on dated 24 & 25 Feb. 2015**

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

**Future plans :-**

- **To provide & disseminate the knowledge of applied Electronics.**
- **To use ICT in teaching - learning Process .**
- **To submit proposals for minor research projects.**
- **To organize class seminars / group discussions / poster/ project exhibition for the students.**
- **To present papers in national seminars / conferences.**
- **To provide excellent Internet facility to the students.**

- To provide training modules to create entrepreneurship ability.
- To submit proposals for career oriented courses / National seminar / conference / workshop to U.G.C.
- To organize visits / guest lecture of eminent / expert (s) in electronics field .
- To inspire students to participate in seminars /Project exhibitions / Quiz competitions etc.
- To organize outreach programs / educational/ study tour / Industrial visits.
- To conduct student – teacher contact program
- To attend national seminars / conferences / workshops
- To motivate the students for higher studies and Avenues open for electronics research field.
- To purchase advanced Electronic instruments / computers.
- To inspire students for extension /extraordinary activities
- To organize national seminar/ conference / workshops sanctioned by U.G. C.

## SWOC ANALYSIS

### Strengths

- 1) Experienced & dedicated staff.
- 2) Continues Quality Improvement practical.  
promotes team work.  
professionally
- 1) High success rate & Low drop out rate.
- 2) The linkage between theory and practical.
- 3) Proactive management team.

### Weaknesses

- 1) Excessive workload.
- 2) Carpet area is in sufficient for
- 3) Limits to promote students  
merely on basis of Graduation.

### Challenges (Threats)

- 1) Strong competition from private
- 2) Staff turnover.
- 3) In these days, there is so much advance  
in the domain of Electronics & Tele  
there fore there is a need to  
students.  
for Industries and recent technology is  
must.

Education system.

### Opportunities

- 1) Availability of funding  
research
- 2) Raising awareness within  
communication the community.  
create a confidence among  
Hence upgrading the curriculum is required

## C. Profile of the Electronics Department

| S.N. | Parameter             | Responses   |
|------|-----------------------|-------------|
| 1.   | Name of Department    | Electronics |
| 2.   | Year of Establishment | 1985        |

|     |  |         |
|-----|--|---------|
| 3.  | Number of Teacher Sanctioned & Present Position                              | 04/02   |
| 4.  | Number of Administrative Staff   | -       |
| 5.  | Number of Technical Staff  | 02      |
| 6.  | Number of Teacher & Students   | 2:151   |
| 7.  | Demand ratio ( No.Of Seat : No. Of Application)                              | 1:2     |
| 8.  | Ratio Teacher to Students  | 75:1    |
| 9.  | Number of Research Scholars who had their master degree from other institute | -       |
| 10. | The year when the curriculum was revised last                                | 2012    |
| 11. | Number of Student passed SET/NET   | -       |
| 12. | Success Rate of Students ( What is Pass % as compared to University Average  | 84.00%  |
| 13. | University Distinction/ Ranks  | 30/43   |
| 14. | Publication by faculty   | 03      |
| 15. | Awards and recognition received by faculty                                   | -       |
| 16. | Faculty who have attended National & international Seminar                   | -       |
| 17. | Number of National & International Seminar organized by the Faculty          | -       |
| 18. | Number of teacher engaged in consultancy and revenue generated               | -       |
| 19. | Number of ongoing project its total outlay                                   | 01      |
| 20. | Research project completed during last two & its total outlay                | -       |
| 21. | Number of invention & Patent   | -       |
| 22. | Number of Ph.D. Guided   | -       |
| 23. | Number of book in the Department Library                                     | 45      |
| 24. | Number of Journals / Periodical  | 11      |
| 25. | Number of Computer   | 2       |
| 26. | Departmental Budget  | 70000/- |