

Shri Shivaji Education Society Amravati's
SCIENCE COLLEGE, Congress Nagar, Nagpur

DEPARTMENT OF ELECTRONICS

INTERNAL ACADEMIC AUDIT

(2020-2021)

1. Vision and Mission of the Department

"We Educate Technocrats and the Technocrats Build Technology"

Vision:

To emerge as a centre for Excellence in 'Electronic Science' of very high standards

Mission:

We dedicate and commit ourselves to provide education in 'Electronic science' and its Applications to enrich the students with Recent Advances in the subject 'where sky is the limit'.

To this end, we will pursue advancements and provide our students a technologically up to date and intellectually inspiring environment of learning, creativity and innovations by the means of co-curricular activity, instill in them moral and ethical values.

Core values of the Department

Department of Electronics stands firm and steadfast for its values and noble ideas. The core identified values of the department encompassing its activities and endeavors are:

1. Value Based Education:

It create a vibrant learning environment emboldened with values and ethics that enhance academic excellence and hone students' social and interpersonal skills making them responsible citizens.

2. Equity and Inclusiveness:

It empowers students with optimum knowledge and opt skills to participate, collaborate, compete and connect with the society, overcoming barriers of personal or socioeconomic circumstances in a bid to succeed.

3. Equality:

We are committed to creating an Institution and a society as 'Lokvidyapith' where stakeholders are appreciated and judged based on their contributions and performance rather than gender, race, religion, physical abilities, sexual identity, or socioeconomic condition. Through the work of this Institution, we will create awareness and work for to eliminate, individual and Institutional racism.

4. Sustainability:

Envision of environment and socioeconomic requirements, imbibe knowledge and furbish skills necessary to attain sustainable development.

5. Compliance with Requirements:

We ensure assured compliance in every activity and procedure, with the established guidelines and specifications set by the governing authorities and statutory bodies.

2. A. Faculty Strength:

Faculty	Recruited	Vacant	Remarks
Regular	02	01	Due to Retirement
CHB	-	01	As Per Workload
Adhoc	-	-	
Non-teaching	02	-	

B. Faculty profile

(i) Teaching Staff

Sr. No.	Name of Faculty Member	Designation	Qualification	Experience
1.	Dr. Suresh M. Ghatole	Professor & Head	M. Sc. Ph. D.	35 Years
2.	Dr. Mahesh J. Hedau	Professor	M. Sc. Ph. D.	34 Years

(ii) Nonteaching Staff

Sr. No.	Name of Nonteaching Staff Member	Designation
1.	Mr. Vithhal K. Zalke	Laboratory Attendant
2.	Mr. Bablu P. Patil	Peon

3. Student's Strength

Year	Group (PEM+ECSM)	Number of Students Admitted
B.Sc. Semester I/II	31+32=63	63
B.Sc. Semester III/IV	19+31=50	50
B.Sc. Semester V/VI	31+28=59	59

4. Students Performance

A. Result Analysis (Winter 2020)

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
UG	B. Sc. Sem. V	-	59	59	100*

B. Result Analysis (Summer 2021)

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
UG	B. Sc. Sem. VI	-	59	59	100*

N. B. :- * All Students are passed in Distinction Grade.

C. Achievements (Medals/Awards/Prizes at University level)

Sr. No	Name of the Students	Class	Title
1.	Nil	-	-

5. Students Progression:

- Students' Participation in intercollegiate Student Seminar Competition (04).
- Students' participation in online extracurricular activity.
- Students' Extension Activity: Participation in NCC/NSS Activities.
- Guest Lecture on Micro-controller and its operation (March 28, 2021).
- No. of Students pursuing higher course: (11/59) About 19 %
- Students' participation in college seminar: 100%
- Students' Learning course through online (LMS and Google Meet): 100%
- Placement Record: On Campus-01 & Off campus-02

6. Faculty

1. Research Paper Publications

A. Total Number of publications:

- International - 04

Dr. S. M. Ghatole-03 & Dr. M. J. Hedau-01

B. Bibliometric of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self-citation
Healthcare System Based on Wearable and Implantable Wireless Body Area Network	S. M. Ghatole	International Journal of Advanced Research in Science and Technology (IJARSCT) ISSN (Online) 2581-9429, Volume 7, Issue 1, July 2020, pp 109-113.	July 2020			
NAAC Accreditation: A Quality Initiative Reform in	S. M. Ghatole P. B. Dahikar	THE RESEARCH JOURNAL (TRJ): A UNIT OF	February 2021			

Indian Higher Education		I2OR theresearchjournal.net, TRJ Vol. 7 Issue 1, January-February 2021 ISSN: 2454-7301 (Print) ISSN: 2454-4930 (Online), PP 42-47.				
Role of Benchmarking in Best Practices for Higher Education Quality Enhancement	P. B. Dahikar S. M. Ghatole	THE RESEARCH JOURNAL (TRJ): A UNIT OF I2OR theresearchjournal.net, TRJ Vol. 7 Issue 1, January-February 2021 ISSN: 2454-7301 (Print) ISSN: 2454-4930 (Online), PP 42-47.	February 2021			
An IOT Application Design and Development of a System for Real Time Remote Monitoring and Studying Different Parameters of Lake With a Web Based Application	M J. Hedau	International Research Journal of Management Science and Technology ISSN-2250-1959.	March 2021			

C. Faculty participation in conferences/seminar/workshop and symposia: Nil

D. Awards to Faculty members: 01

Dr. M J. Hedau - Award for teacher with highest potential y South Asian Management Association, Singapore.

7. MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Date of MOU	Organization	Purpose/Activity	Student Participate under MOU
26/02/2021	D. B. Science College, Gondia	Faculty Exchange & Related Services	250

8. Research funds sanctioned and received from various agencies, industry and other organizations: Nil

Nature of the Project	Duration	Name of funding Agency	Amount Sanctioned	Amount Received
Nil	-	-	-	-

9. Books Published

Sr. No.	Name of the Author	Book		Book Edited
		Title	ISBN and Date	Chapter
1.	Suresh M. Ghatole Pradeep B. Dahikar	Basic Analog and Digital Electronics For Beginners: Volume-I	ISBN: 939018664-1 December 2020	-
2.	M. J. Hedau J. G. Mahakhode S. R. Sharma	Basic Electronics	ISBN: 978-93-84336-63-3 September 2020	-

10. Research Guidance by Faculty during the year 2020-21

Name of the guide	Ph. D.		
	Awarded	Submitted	Registered
Dr. Mahesh J. Hedau	Nil	01	Nil

11. Alumni Engagements

a) Contributes significantly to the development of the institution through financial and other supports: Nil

b) Alumni contribution during the year: Nil

12. Action Plan of the Department

- To recommend for the recruitment of the faculty members.
- To focus on technological approach like communication and biomedical technology.
- To start Certificate course in Recent Advances, if possible.

13. Best Practices of the department

- To prepare value added and skillful technocrats

- The teachers provide complete information and guidance about higher studies, job oriented courses and other avenues open for electronics students.
- The teachers of the department always encourage the students to appear for various Competitive and Entrance Examinations at National Level.

14. SWOC Analysis

Strength

- Skilled & Dedicated faculty.
- Dynamic and Encouraging Principal & Democratic Management.
- Safe and Secure environment for co-education with Value addition.
- Availability of Interdisciplinary approach.
- Parent Teachers interaction is encouraging.

Weaknesses

- Lack of Industrial Zone.
- Less percentage of campus recruitment.

Opportunities

- Science Culture and Scientific/ technological Approach.
- Regular Internal Assessment by conducting Unit/Common test and giving home Assessment.
- Remedial teaching is provided to desirous students.
- Academic and Extension activities are encouraged.
- Career and Counseling Guidance Cell.
- Training & placement cell in College.

Challenges

- Problem of unemployment due to lack of Industrial Zone.
- To improve the course curriculum to cope up with Recent Technology.


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Department of Electronics

B. Sc. Semester V (Winter-2020)

RESULT ANALYSIS

Total Number of students appeared for Exam. **59**
 Total Number of students passed in Exam. **59**
 Passing percentage **100**

Number of students appeared	Theory		Practical
	Paper I	Paper II	
59	59	59	59
	100 %	100 %	100 %


Number of students passed in Distinction class - **59 (All distinction grade)**
 Number of students passed in First class - **Nil**
 Number of students passed in Second class - **Nil**

Students	Appeared	Passed	Percentage
Boys	27	27	100
Girls	32	32	100
Total	59	59	100

Topper Students list

Sr. No	Name	Marks obtained
1	Kanchan A. Digambare	145
2	Shalaka A. Sule	138
3	Suhas S. Potfode	138
4.	Anij C. Ghatate	137

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B. Sc. Semester VI (Summer-2021)
RESULT ANALYSIS

Total Number of students appeared for Exam.	59
Total Number of students passed in Exam.	59
Passing percentage	100

Number of students appeared	Theory		Practical
	Paper I	Paper II	
59	59	59	59
	100%	100%	100 %


Number of students passed in Distinction class - 42

Students	Appeared	Passed	Percentage
Boys	27	27	100
Girls	32	32	100
Total	59	59	100

All are passed in Distinction Grade

Toppers List

Sr. No	Name	Marks
1.	Shalaka A. Sule	139
2.	Ankita J. Sawarkar	133
3.	Rutik M. Shrawankar	133
4.	Shubhangi V. Mandekar	132
5.	Manu D. Sanodia	132


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B. Sc. Semester III (Winter-2020)

RESULT ANALYSIS

Total Number of students appeared for Exam.	52
Total Number of students passed in Exam.	52
Passing percentage	100

Number of students appeared	Theory		Practical
	Paper I	Paper II	
52	52	52	52
	100 %	100 %	100 %

Number of students passed in Distinction class -	38
Number of students passed in First class -	14

Students	Appeared	Passed	Percentage
Boys	21	21	100
Girls	31	31	100
Total	52	52	100

Topper Students list

Sr. No	Name	Marks
1	Anuj M. Khapekar	134
2	Dipali A. Ugemage	133
3	Pankaj A. Rahile	133
4	Sakshi H. Bidkar	130

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B. Sc. Semester IV (Summer-2021)

RESULT ANALYSIS

Total Number of students appeared for Exam.	50
Total Number of students passed in Exam.	50
Passing percentage	100

Number of students appeared	Theory		Practical
	Paper I	Paper II	
50	50	50	50
	100%	100%	100 %

Number of students passed in Distinction class - 37


Number of students passed in First class - 10

Students	Appeared	Passed	Percentage
Boys	19	19	100
Girls	31	31	100
Total	50	50	100

Toppers

Sr. No	Name	Marks
1	Sakshi H. Bidkar	137
2	Viplav V. Kamble	135
3	Anuj M. Khapekar	134

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B. Sc. Semester I (Winter-2020)

RESULT ANALYSIS

Total Number of students appeared for Exam.	61
Total Number of students passed in Exam.	61
Passing percentage	100

Number of students appeared	Theory		Practical
	Paper I	Paper II	
61	61	61	61
	100 %	100 %	100 %

Number of students passed in Distinction class -	59
Number of students passed in First class -	02

Students	Appeared	Passed	Percentage
Boys	30	30	100 %
Girls	31	31	100 %
Total	61	61	100 %

Topper Students list

Sr. No	Name	Marks
1	Pratha R. Geetey	145
2	Munish S. Bothlikar	141
3	Mitali S. Datar	140
4	Mukta R. Deshpande	140

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B. Sc. Semester II (Summer-2021)

RESULT ANALYSIS

Total Number of students appeared for Exam. 63
Total Number of students passed in Exam. 63
Passing percentage 100

Number of students appeared	Theory		Practical
	Paper I	Paper II	
63	63	63	63
	100%	100%	100 %

Number of students passed in Distinction class - 45

Students	Appeared	Passed	Percentage
Boys	32	32	100
Girls	31	31	100
Total	63	63	100

Toppers

Sr. No	Name	Marks
1	Pranaya S. Pounikar	143
2	Munish S. Bopthlikar	141
3	Adarsh A. Tinguria	139

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