



J.D.M.V.P. Samaj's, Shri. S. S. Patil Art's, Shri. Bhausahab T. T. Salunkhe Commerce and Shri. G. R. Pandit Science College, (Nutan Maratha College), Jalgaon.



ELECTRONICS

DEPARTMENTAL

PROFILE

2018-2023

Mission

To provide higher education in Electronics to the youths of the country with basic knowledge of Electronics and endow skilled experts to the industry and society.

Objectives of the Department

- To motivate students for making carrier in Electronics.
- To make them confident of using instruments in the Electronics Laboratory.
- To demonstrate the use of Active & Passive electronic components.
- To teach designing of different electronic circuits and verify practically in the laboratory.
- To learn about the Radio and Television communication technology.
- To train student in writing Assembly Language Programming.
- To study about the numerical methods and their applications in the Electronic circuits.
- To make aware about microcontroller programming and it's applications in electronics.
- To acquaint with the principle and operation of modern home appliances.
- To teach electronic power controls used in industries.
- To make aware about the use of different software tools.
- To develop research attitude by giving electronic projects

DEPARTMENT OF ELECTRONICS

The department of electronics was established in 1985. Since the inception of the department it has strived to achieve academic excellence through quality teaching, participative learning and technical skill enhancement in frontier domains of Electronic Science. The department offers UG (Aided), As a result of department's commitment towards holistic development of the students; the graduates passing from the department have strong technical and theoretical foundation and are competent enough to survive in the competitive

environment. The department has well experienced and dedicated faculty members have aims to impart sound knowledge and awareness in the latest developments in the field of Electronics Science. The Department emphasizes on experiential learning through various innovative methodologies which include seminars, workshops, exhibitions, and projects for the holistic development of the students. The department has well equipped laboratory and received recognition from KBC NMU as Research Center.

Highlights of the Department:

- ▶ Courses from Under Graduation
- ▶ Highly Qualified Staff.
- ▶ Research Activities.
- ▶ Good Infrastructure
- ▶ Recognized Research Center of Electronics by KBC NMU Jalgaon
- ▶ Well Equipped Laboratories
- ▶ Personal attention and counseling for students
- ▶ Opportunity for the students to conduct projects in department laboratory
- ▶ Laboratories with LCD Projector

2. Details of the Programmes Offered by the Department

Sr No	Program level	Name of the program	Duration	Entry Qualification	Medium of Instruction
1	UG	B Sc Electronics	03 Years	H S C	English
2	Certificate Course	Laboratory Electronic Instruments Repairing and Maintenance	01 Year	H S C	English
3	Ph. D. (Electronics)	Research in thin film, , Nano Materials, synthesis Semiconductor sensitized solar cell, Nano sensors, Chemical bath deposition and Spin Coating	03 Years	M Sc Electronics	English

3. Departmental Staff:

Post	Sanctioned and filled
Professor	01 (upto 31 June 2020)
Associate Professor	02 (upto 1 Dec 2022)
Assistant Professor	01
CHB	01
Contractual	00

Name and Information of the Teachers of Electronic Department:

Sr. No	Name of the Teacher	Qualification	Designation	Mobile No & Email	Research Experience	Date of Appointment and Experience UG to PG
1	Dr B.K.Sonawane (upto 2021)	M Sc, M Phil, PhD	Professor	890253180 bk_sonawane@rediffmail.com	Three Students awarded PhD	UG: 34 Years, PG: 25 years
2	Dr S.A.Gaikwad (upto 2022)	M Sc, M Phil, PhD	Associated Professor	9423573910 sagaikwad3@gmail.com	.....	UG: 33 Years, PG: 25 years
3	Mr.P.R.Deore (upto31/5/2020)	M Sc,	Associated Professor	....	.....	24/08/1988 UG:33 Years
4	Dr.K.B. Patil (Head of the Department)	M Sc, PhD	Assistant Professor	9325575836 Email- kbpatil1531969@gmail.com	02 Students pursuing PhD	12/09/1992 UG: 32 Years, PG: 02 years
5	Dr.Rahul Salunkhe	M Sc, PhD	Assistant Professor (CHB)	7972798539 rippusalunke@gmail.com	.....	UG: 3 Years,

Faculty on Academic Bodies of University:

Prof.Dr B.K.Sonawane (Professor)

- ❖ Member : Member Board of Studies in Electronics
- ❖ Coordinator : Online Examination of University
- ❖ Chairman : For PhD Viva-voce
- ❖ Member : Subject Expert for PhD Pre-submission Presentation
- ❖ Member: Subject Expert for appointment of Assistant Professor.
- ❖ Member : External/Internal PhD Referee

Dr S.A.Gaikwad (Associated Professor)

- ❖ Senior Supervisor of University Examination
- ❖ Member : Paper Setting of University Examination
- ❖ Chairman : LIC Committee
- ❖ Member : Member Board of Studies in Electronics

Dr. K.B. Patil (Assistant Professor)

(Head Department of Electronics & PG Coordinator)

- ❖ Member : Paper Setting of University Examination
- ❖ Member : COCC Committee
- ❖ Assistant Program Officer NSS
- ❖ Senior Supervisor of University Examination
- ❖ Chairman : T Y B Sc Electronics Practical University Examination

Dr.Rahul Salunkhe (Assistant Professor) CHB

- ❖ Junior Supervisor of University Examination
- ❖ Internal and external examiner Practical examination

Meritorious Students:

T. Y. B. Sc. (Electronics)

Sr No	Name of the student	Year	CGPA/ Percentage of Marks	Rank
1	Patil Sagar Shivaji	2018-19	78.16%	First in the College
2	Temkar Vishal Abhimanyu	2019-20	81.29%	First in the College
3	Baviskar Minakshi Bhalchandra	2020-21	94.89%	First in the College
4	Borase Rohit Yuvaraj	2021-22	85.42%	First in the College
5	Birpan Mahesh Rohidas	2022-23	80.92%	First in the College

Result data of the assessment period:

Sr No	Year	T Y B Sc		
		Appeared	Pass	Pass %
1	2018-19	07	03	42.85%
2	2019-20	07	06	85.71 %
3	2020-21	08	08	100 %
4	2021-22	09	09	100 %
5	2022-23	07	02	28.57%

NET/SET/Govt. Exam and Other Examination

Qualified by Students: Nil

Sr No	Year of Passing	Seat No	Name of the Student	NET/SET/ Govt. Exam
1				
2				
3				
4				

Placement of Students:

Sr No	Name of student	Program	Name of Employer	Pay package At appointment (In INR per annum)
1	Sonawane Jayesh Sanjay (2021-22)	B.Sc	Self Officer HDFC (Nasik) bank Andhedri west Mumbai	25,000 (Monthly)
2	Lohar Diraj Sanjay (2020-21)	B.Sc	Soft Engineer Pune	600,000
3	Patil Umesh Naval (2020-21)	B.Sc	Hardware Engineer Pune	260,000
4	Borse Rohit Yuvaraj (2021-22)	B.Sc	Tech Assistant M.electronics M IDC Jalgaon	12,500 (Monthly)
5	Koli Harshal Ishwar (2021-22)	B Sc	Orange Business Service Indian Pvt.Limited Mumbai	25,000 (Monthly)
6	Rathod Rajendra Machindra (2021-22)	B.Sc	Business Manisha Stationary, Online (Setu) Pawangaon ,Kalyan	25,000 (Monthly)
7	Birade Devendra Adhar (2021-22)	B.Sc	Trade man, BSF Posting at Datiwala Gujarath	21,000 (Basic Monthly))
8	More Rahul Tukaram (2019-20)	B.Sc	Technician ,Tata Hospital Mumbai	35,000 (Monthly)
9	Temkar Vishal Abhimanyu (2019-20)	B.Sc	Technician Invotech ,Pune	15,000 (Monthly)
10	Birpan Mahesh Rohidas (2022-23)	B.Sc	Computer Operator,Enkai wheel Industry India Pvt.limited Shikrapure ,Pune	22,000 (Monthly)

List the distinguished alumni of the department:

Sr No	Name of the Alumni	Present post held
1	Ms. Manisha K Sonawane	Associate Prof Vasantao Naik College, Aurangabad
2	Dr.Suresh W.Gosavi	Vice Chancellor Savitribai Phule Pune University (SPPU)
3	Dr.Chaudhari K. S	Associate Prof A. S. C. College, Dondaicha
4	Mr. Naik Ravindra V.	Social Worker, Jalgaon
5	Mr.Jadhav R.V.	JTO ,BSNL Telephone Pune
6	Dr.Patil Kailas B.	Assistant. Prof. J.D.M.V.P.Samaj's A.S.C.College Jalgaon
7	Mr.Patil Anil B.	Assistant. Prof. M. S. G. college, Malegaon
8	Mr.Patil Prashant Ramesh	Central Jail, Nasik (Jailor)
9	Mr.Dunakhe Sachin	Business Computer Corner, Jalgaon
10	Mr.Kundan Dhande	Electronic Engineer Rishabh Instruments Pvt. Ltd. Nashik
11	Mr.S.R.Patil	Lecturer MCVC JR College Varangaon
12	Mr. P.S. Patil	Lecturer Mahatma Gandhi Vidyalaya, Varangaon,

List of Ph D students in the department:

Dr B.K.Sonawane (Research Guide)				
Sr No	Name of the	PhD/ M Phil	Title of the Thesis	Status
1	Mr.Patil Kailas Bhalerao DOR: 06-05-2013	Ph.D.	Growth and characterization of doped Bismuth tri-sulphide crystals by Gel method	Awarded 23-12-2021
2	Ms. Tahira A. H. Mir DOR: 22-02-2013	Ph.D	Investigation of optical and electrical properties of ZnSe doped compounds for solar cells	Awarded July 2022
3	Mr.Sonawane Anil Uttam DOR: 22-02-2015	Ph.D	Synthesis and characterization of Chalcogen- doped ZnO film for optical applications	Awarded 6-11-2023

Dr K.B. Patil (Research Guide)				
1	Ms. Patil Rupali Mahendra DOR: 14-10-2022	Ph.D	Synthesis and Characterization of pure and doped Manganese sulfide (MnS) Thin film	Ongoing
2	Mr.Teli Vishal Ishwar	Ph.D	Under Process	Ongoing

Research projects by faculty: Nil

Sr No	Name of faculty	Title of research project	Funding agency	Status
1				
2				

Publications by Faculty:

Sr No	Name of the faculty	Publication in peer reviewed Journal (National)	Publication in peer reviewed Journal (International)	Books/ Book Chapters
1	Dr B.K.Sonawane	...	16	....
2	Dr S.A.Gaikwad	04	04	...
3	Dr K.B. Patil	--	19	....
4	Dr.Rahul Salunkhe			.....

Seminars/Conferences/Workshops/RC/OC/FDP attended:

Sr No	Name of Faculty	Seminar conference Workshop (State/Uni)	Seminar conference Workshop (National)	Seminar conference Workshop (International)	RC/OC/FDP
1	Dr B.K.Sonawane	04	03	04	-----
2	Dr S.A.Gaikwad				
2	Dr K.B. Patil	03	15	08	FDP = 11
4	Dr.Rahul Salunkhe				

Event /Programmes Workshops/Seminars Organize By Department :

❖ Workshop on Syllabus Reconstructing at F Y BSc Electronics (CBCS)

29th April 2022

Infrastructure of the Department: Physical Facilities:

Sr No	Room/ Laboratory	Dimension (Feet)	Utilization for
1	Lab. I	20X 30	S Y and TY Practical's
2	Lab. II	15 X 30	FY Practical's & Junior
3	Lab. III (Research)	10 x 20	(Research)

Departmental Library Facilities:

Sr No	Books	Journals	Thesis
1	101	00	02

Computers and other peripherals:

Sr No	Item	Description	Number
1	Computer	P4 & P3	15
2	Printer	Canon	01
3	Printer	H P	01
4	LCD Projector		01

Special facilities of the Department:

1. Recognized Research Center of KBC NMU Jalgaon for UG/ PG and Research Student

Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:

Strengths:

- ❖ Well experienced and qualified staff
- ❖ Department with Recognized Research center
- ❖ Friendly interaction of teachers with the students
- ❖ Very co-operative non teaching staff

Weakness:

- ❖ Lack of placement
- ❖ Constrain in Characterization facility for research

Opportunities:

- ❖ Teaching learning method can be improved with learning resources
- ❖ Ample scope for extending research projects

Challenges:

- ❖ To attract students by projecting opportunities in Electronics
- ❖ To set up well equipped research laboratory

Future Plans:

- ❖ To set up well equipped research laboratory with Characterization facility for research.
- ❖ To organize more co-curricular activities for the students
- ❖ To apply for research projects and funding for it