

Departmental Profile

Department	ELECTRONICS		
Department Profile	<p>College Vision</p> <p>College Mission</p>	<p>1) Education for all 2) Education as a means of elimination of poverty. 3) Education as means of social inclusiveness and communal harmony. 1)To provide advance quality education and knowledge to all, specially to the deprived section of the society 2) To cater for all-round development of the students including academic sports and cultural development 3) To develop a sense of community feeling among the students 4) To develop social awareness and social commitment in the students 5) To develop leadership and proactive qualities among the students so as to be competitive and successful in career building</p>	
	Departmental Goals/Aims/Objective	<p>1) To provide higher education in the Electronics subject 2) To ensure employment through placement cell 3) To provide career orientated programme, based on the needs of industry and employer</p>	
	Introduction	<p>Department of Electronics has been established in 1987. Two teachers are sanctioned for this course. Dr. A.R. Khobragade (1988) and Dr. R. K. Parate (2012) are appointed for teaching workload. Mr. A.V. Thakre (2019) is supporting staff (Lab. Assistant). Last curriculum (Semester pattern) in the subject Electronics was designed in the year 2020-21. Both faculties of department are involved in research activities.</p>	
	Brief History	<p>Electronics department has been started in 1987. Prof. Tiwari joined as Lecturer in the department. He left the college in the year 1988. Dr. A. R. Khobragade and Dr. S. J. Sharma</p>	

		<p>joined the college in the year 1988. From 1990 to 2003 the department was allotted various major and minor research projects by UGC and was duly completed. For the first two year the students were offered Electronics, Computer Science, and Physics group at degree level. From 1990 to 2007 students were ask to offer Physics, Electronics and Maths subject. From 2007 onwards another group consisting of Electronics, Computer Science and Maths was also made available to the student. Dr. Sharma joined as Reader and Head Department of Electronics and Computer Science R. T. M. Nagpur University Nagpur. Mr. R.K.Parate appointed as Asst. Prof. in place of Dr. S.J.Sharma on 23rd April 2012. Dr. Khobragade and Dr. Parate have presented the papers at various international and National Conferences.Mr. R. K. Parate has been awarded with Ph. D. degree in ELECTRONICS on dated 07th July 2022.</p>	
	Facilities	<ol style="list-style-type: none"> 1)Well equipped separate Laboratories 2)Computer Labortory 3) Departmental Library 4) Departmental workshop 	
	Best Practices of the department	<ol style="list-style-type: none"> 1) Design of Experimental Units, 2)Design of Power Supply, 3)Design of Hobby Kits 	
Academic Courses / Programmes	<p>Electronics, Comp. Science and Mathematics (EMCs)</p> <p>Electronics, Physics and Mathematics (EMCs)</p>	<p>Course Outcome</p> <ol style="list-style-type: none"> 1) Ability to design and conduct electronics experiment as well as to analuze and interpret data. 2) Utilize the basic knowledge of science Electronics and Communication 3) To provide opportunity to students to learn the latest trends in Electronics 	<p>Syllabus Link</p> <p>Syllabus link of other subjects in the group https://nagpuruniversity.a.c.in</p>

		<p>4) To provide opportunities to the students for becoming researchers and developers</p> <p>5) To satisfy the needs of the core Electronics Industry useful for the society in all walks of life.</p> <p>6) To provide opportunities to the students to formulate, analyze and resolve the problems in Electronics Industry</p> <p>7) To prepare students to share the teams working on recent multidisciplinary projects for entrepreneurship.</p>	
Opportunities	<p>PG Certifications</p> <p>Diploma</p> <p>PG</p> <p>Any other</p>	<p>Certification course in Electronics PGDGS, PGDBM</p> <p>M.Sc. (Electronics, Mathematics, Computer Science), MCA</p> <p>MBA, MA</p> <p>Competitive Examination</p>	<p>Link To Syllabi of RTMNU Nagpur</p> <p>https://nagpuruniversity.ac.in</p>
Faculties	<p>Head : Dr. A. R. Khobragade</p> <p>Other faculties : Dr. R. K. Parate</p> <p>Other Staff : Mr. A. V. Thakre</p>	<p>Message from Head of the Department</p> <p>It is my great pleasure to welcome you to Department of Electronics at S. K. Porwal College Kamptee. The Department has been growing considerably during these last years due to the success of its graduates in proving themselves as highly skilled and professional engineering technologists.</p> <p>The syllabus of Electronics is designed to reflect the diverse needs of our students and the society we live in whilst retaining academic rigor. They equip our students with the required knowledge and skills to work as a professional and active engineering technologist in a wide range of career disciplines such as electrical, electronics, communication, instrumentation, and computer control industry. Our programs also open the doors for our graduates to continue their graduate studies at universities around the world.</p>	

		Whether you are a first-time visitor, student, parent, alumni or employer, I invite you to explore our department webpages and discover by yourself the ample opportunities at our department as a first choice in Electronics education.	
Research	Research Profile of Department Dr. A. R. Khobragade		
	Publications in Journals	08	
	Number of Ph. D. awards	01	
	International Conference	07	
	National Conference	08	
Research	Research Profile of Department Dr. R. K. Parate		
	Publications in Journals	04	
	Book Chapters	03	
	Books	02	
	International Conference	06	
	National Conference	11	
	Minor/Major Research Project in Department Completed	Major Project 1) Development of Virtual Laboratory for Precise Ultrasonic Measurement Minor Project 1) Development of Database Comprising of Compilation of Information on Ultrasonic Propagation Studies in Polymer 2) Development of Multimedia Electronic Laboratory	
Admissions and Results	Students Strength	Year wise strength / See table bellow	
	Result statistics	See table bellow	
	Students Progression	See table bellow	
Students	Students Achievements Placements of the students if any	02 (Government Sector)	
News and Events	Events, and Activities, etc Invited lecturers	Department conducted Webinar 1) Design of Low Cost Ultrasonic Instrumentation on dated 05/04/2017 by Dr. s. J. Sharma 2) Role of Electronics in Healthcare Arena on dated 24/07/2021 by Dr.	

		N. D. Meshram 3) Application of Virtual Lab in Electronics on dated 09/08/2021 by Dr. Kunal D. Gaikwad	
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Guest speakers

Name of the Guest Speakers	Topic Covered	Date	Number of Students Attended	Outcome
			Attach sign list of Students	
Dr. S. J. Sharma	Design of Low Cost Ultrasonic Instrumentation	05/04/2017		

Student Strengths

Year	Course			Intake Capacity	Eligibility	Link to syllabus
	Part I	Part II	Final		XII th pass with mathematics	https://nagpuruniversity.ac.in
2016-17	43	24	25	92		
2017-18	29	36	12	77		
2018-19	24	21	22	67		
2019-20	29	13	14	56		
2020-21	23	24	25	72		
2021-22	24	23	30	73		

Student Progression

Year	PG Degree
2016-17	05
2017-18	07
2018-19	04
2019-20	07
2020-21	07

Result Analysis for Department

Year	Number of Student Admitted in batch		Appeared in In Final Year	Number in Final Years		Number of Students in final Year		Dropout ratio	College Result in Percentage	University Result in Percent	Number of Students in			
	First Year	Final year		Boys	Gir ls	Pass ed	Fail ed				Disti nction	1 st Cla ss	2 nd Cla ss	Pas s Cla ss
16-17	43	25	24	02	23	22	02	7:23			02	10	10	02
17	29	12	12	07	05	10	02	22:30			00	05	05	00

- 18														
18 - 19	24	22	22	09	13	20	02	28:43			00	11	08	01
19 - 20	29	14	14	04	10	13	01	17:29			13	00	00	00
20 - 21	23	25	25	09	16	25	00	13:24			15	07	03	00

Faculties

	Name	Specialisation	Area of Research	Link to Profile
Head	Dr. A. R. Khobragade	Applied Electronics	Instrumentation	
Faculties	Dr. R. K. Parate	Instrumentation	Biomedical Instrumentation	
Ex- Faculties	Name	Duration	Link to Profile	
	Dr. S. J. Sharma	05/09/1988 to 03/12/2008		

List of Research Scholars for Ph. D.

Name of the Researcher	Title of Thesis	Date of Registration	Date of Award of Degree	University
Mr. A. L. Choudhari	Design of PC based Instrumentation for Luminescence Studies	02/02/2015 to 28/01/2021	03/08/2022	RTMNU Nagpur