Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

Electronic Sector Skill Council of India Delhi

Launching in Collaboration

A First of its kind

Apprenticeship Embedded Degree Program
(A Four-Year Undergraduate Program)

B.Sc. (Honors) Electronics

with

Major in **Industrial Electronics**

&

Minor in **Solar Photovoltaic Systems | Data Science**

at

Department of Electronics
School of Physical Sciences
Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

Admissions Open for Academic Year 2026-27

Information Brochure

Admission Process (Academic Year 2026-27)

for Admission to

B.Sc. (Honors) Electronics

with

Major in **Industrial Electronics**

and

Minor in **Solar Photovoltaic Systems | Data Science**

With Exit Options as

- **UG Certificate in Electronics** (after successful completion of 1 Year)
- **UG Diploma in Electronics** (after successful completion of 2 Year)
- **B.Sc. in Electronics** with major in Industrial Electronics (after successful completion of 3 Year)
- **B.Sc. (Honors) in Electronics** with major in Industrial Electronics (after successful completion of 4 Year)

A unique Course by

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

In Collaboration with

Electronic Sector Skill Council of India, Delhi

Support

Centre for Research in Schemes and Policies (CRISP)

Contact Department of Electronics

@ Phone: No.: 0257-2257475 Email: doe@nmu.ac.in

Online Application Link @ Last Page

A Unique
Apprenticeship Embedded Degree Program

Highlights

- **Industry-Oriented Curriculum**: The program is designed by the University in association with Electronic Sector Skill Council of India (ESSCI) with an objective of training the students to meet the industrial manpower requirements, specifically in the field of Industrial Electronics. So, this program provides good opportunities for employment after completion of the course.
- **Attractive options for minors:** Students will have the opportunity to study either Solar Photovoltaic Systems or Data Science as minor subjects. Both subjects provide excellent opportunities for either self-employment or employment in relevant sector.
- **One-year full-time Apprenticeship**: Upon successful completion of the third year, students will be provided opportunities for one-year full time Apprenticeship (paid internship) in relevant industries through ESSCI via their extensive job portal and National Apprenticeship Promotion Scheme (NAPS), and linkages with numerous industries.
- **Skill Certification**: ESSCI (Electronics Sector Skill Council of India)
  and KBCNMU (Kavayitri Bahinabai Chaudhari North Maharashtra University) may provide appropriate level skill certificates based on performance evaluation. These certificates will boost employment opportunities.

This comprehensive program ensures that graduates are not only academically proficient but also industry-ready, equipped with the skills and experience demanded by the modern electronics and renewable energy sectors.

Program Objectives

- To impart to the students, knowledge in the field of industrial Electronics and solar photovoltaic systems/data Science so that they will acquire necessary theoretical knowledge and practical skills required to fulfill the industrial demand.
- To impart to the students, various soft skills to make them sufficiently prepared to work successfully in an industry,
- To offer the students experience of working in a related industry through apprenticeship.
- To make the student a good human being to make him enable to live a successful life.

Program Outcomes

After completion of this program students will be:

- Ready to work in industries in the field of industrial electronics, solar photovoltaics or data science.
- Ready to become an entrepreneur in the field of industrial electronics, solar photovoltaics or data science.
- Able to lead a successful professional and personal life, though various soft skills acquired.

More Information About the Program

Nature and Duration of the Course

This is a full-time Apprenticeship Embedded Undergraduate Program with Multiple Entry Multiple Exit Options as per the National Education Policy-2020.

Major Subject	**:**	Industrial Electronics
Options for minor Subjects	**:**	Solar Photovoltaic Systems OR Data Science
Medium of Instructions	**:**	English

Intake Capacity: **40** (Reservation of seats as per the rules)

Admissions will be given based on a merit list based on the marks obtained in H.S.C./Diploma/ITI.

Eligibility:

(I) A candidate who has passed H.S.C. (Class XII) from "Science stream" and has obtained at least 50% (45% for reserved category) marks.

(II) A candidate who has passed a Diploma in Electronics/Electrical or ITI in Electronics/Electrical and has obtained at least 50% (45% for reserved category) marks.

(III) 10+2, M.C.V.C. with Electronics

Degree Awarded

Students successfully completing 4 years of study under this program will get the following degree based on the Minor subject chosen by him/her:

- **B.Sc. (Hons.) Electronics with a Major in Industrial Electronics and Minor in Solar Photovoltaic Systems.**

- **B.Sc. (Hons.) Electronics with a Major in Industrial Electronics and Minor in Data Science.**

Program aimed at multidimensional growth of the students:

In adherence to the principles of National Education Policy 2020, KBCNMU has incorporated six different features into the undergraduate programs, providing students with a well-rounded educational experience:

- **Multidisciplinary Approach:** The new courses emphasize a multidisciplinary approach by integrating diverse subjects, allowing students to develop a holistic understanding of their field of study and its interconnectedness with other disciplines.

- **Open Electives:** Students can choose open electives, enabling them to explore subjects beyond their primary field of study. This flexibility encourages interdisciplinary learning and fosters a well-rounded educational experience.

- **Value-Added Courses: KBCNMU** offers specialized value-added courses that enhance students' knowledge and skills in emerging areas such as data analytics, digital marketing, and entrepreneurship. These courses enhance employability and make the students industry ready.

- **Ability Enhancement Courses:** The university offers ability enhancement courses that focus on developing critical skills such as communication, problem-solving, teamwork, and leadership. These courses equip students with transferable skills necessary for success in their careers and personal lives.

- **Life Skill Courses:** KBCNMU incorporates life skill courses that cover a wide range of topics including yoga, music, mindfulness, stress management, financial literacy, and ethical reasoning. These courses nurture students' overall personal and professional growth, preparing them to face real-world challenges with confidence.

- **Vocational Skill Courses:** To address industry demands, vocational skill courses are offered to provide students with practical skills aligned with specific industries or professions. These courses prepare students for a smooth transition into the workforce and bridge the gap between academic and industry requirements.

Nature of subjects and their weightage in the course:

Nature of Subject	Total Credit
Major: Industrial Electronics	48
Minor: Solar Photovoltaic Systems or Data Science	14
Open Electives	12
Vocational Skill Courses	14
Ability Enhancement Courses & Value Education Courses	16
Co-Curricular	8
Project	8
Elective	12
Apprenticeship	44
Total Credits	176

Skill certification from ESSCI in following subjects in Major

- Planning, Design & Installation of electrical & electronics sub system
- Install, test and use microcontroller in the mechatronic system
- Develop and Test Design for IoT Based System
- Build GUI and Applications in a Framework
- Develop function design of SOC module
- Develop embedded system software
- Designing Embedded Electronic Products
- Foundation Program on Nano Science and Technology
- Employability Skills
- Carry out project initiation and planning
- Advanced Hands- on Training in Semiconductor Process Technologies
- Manage quality in the production process and final output
- Carry out execution, monitoring, control and closure of the project

Facilities Available at the Campus:

- Central (Knowledge Resource Center) and Departmental Library, Hostel with mess, Canteen, Health Center, Sport Complex, Swimming Pool, Gymnasium facilities are available in the natural, beautiful, pollution free and peaceful academic campus of the Kavayitri Bahinabai Chaudhari North Maharashtra University which is 10 Km away from Jalgaon city.
- Sophisticated UG, PG and Research Laboratories.
- Computer Laboratories with Internet facilities.
- School/Central Placement Cell.

Important Dates:

Last Date of Online Application	22-06-2026
Declaration of Provisional Merit List of Candidates	24-06-2026
Grievances related with Provisional Merit List (if any)	25-06-2026
Declaration of Final Merit List of Candidates	27-06-2026
Date of Spot Admission	30-06-2026
Date of Commencement of Teaching Sessions	01-07-2026

Currently applicable Course Fees* (in Indian Rupees)

Course Fee (Rs.)			
I Year	**II Year**	**III Year**	**IV Year**
33,405/-	**30,755/-**	**30,955/-**	**30,955/-**

***Note: Scholarship as per Government Rules are available**.

Hostel Fees

Hostel Name	Fees Per Year (Rs.)
Boys Hostel	4,085/-
Girls Hostel	4,085/-

Online Application Link:

https://nmu.ac.in/physical_science/en-us/Programmes#BScElect

List of Documents required for Spot Admission:

1. S.S.C. Marksheet
2. H.S.C. Marksheet
3. Leaving Certificate/Transfer Certificate
4. Caste Certificate (If Applicable)
5. Caste Validity Certificate (If Applicable)
6. Non-Creamy Layer Certificate valid up to 31-03-2027 (If Applicable)
7. EWS Certificate for Current Financial Year (F.Y. 2026-27) (If Applicable)
8. Two Passport Size recent photo

Contact Persons:

(Please contact only in case of any query after going through this information brochure carefully. Please note that do not call frequently).

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