

# AMRITA ENTRANCE EXAMINATION ENGINEERING

**AEEE-2026** 

# INFORMATION HAND BOOK

## 8 Campuses & 19 Programmes

- \* Amaravati (Andhra pradesh)
- \* Amritapuri (Kerala)
- Bengaluru (Karnataka)
- Coimbatore (Tamilnadu)
- Chennai (Tamilnadu)
- \* Faridabad (Haryana)
- \* Haridwar (Uttarakhand)
- \* Nagercoil (Tamilnadu)



NAAC A++ ACCREDITED



**Directorate of Admissions & Academic Outreach** 

Amrita Vishwa Vidyapeetham, Amritanagar PO, Ettimadai, Coimbatore-641112, Tamilnadu

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#### ABOUT AMRITA VISHWA VIDYAPEETHAM

Amrita Vishwa Vidyapeetham Deemed to be University is a multi-campus, multi-disciplinary research-intensive private University educating a vibrant student population of over **30000+ by 2000+** strong faculty. Accredited with the highest possible **'A++'** by **NAAC** and is ranked as one of the best research Institutions in India. Amrita offers more than 350 UG, PG, and Ph.D. programs in Engineering, Management, and Medical Sciences including Ayurveda, Life Sciences, Physical Sciences, Agriculture Sciences, Arts & Humanities, and Social & Behavioral Sciences.

With its extensive network of ten campuses spread across Amaravati, Amritapuri, Bengaluru, Chennai, Coimbatore, Kochi, Mysuru, Nagercoil, Faridabad and Haridwar, Amrita University stands as one of India's preeminent private educational institutions. Encompassing an expansive area of over 1200 acres, these campuses offer an impressive built-up space of more than 100 lakh square feet.

Renowned for its commitment to academic excellence, Amrita University consistently ranks among the top-tier private universities in the nation, solidifying its reputation as a beacon of quality education. Amrita has emerged as the eighth ranked university in the National Institutional Ranking Framework (NIRF) Rankings 2025 released by MHRD, Govt. of India and has been adjudged as one of the "Top 10 Universities in India" for the eighth consecutive year. Amrita School of Medicine, Kochi has been ranked 6th Best in Medicine in NIRF Rankings 2023.

There are 8 campuses offering B.Tech programmes in 19 branches.

#### AMRITA VISHWA VIDYAPEETHAM – ENGINEERING CAMPUSES

#### **AMARAVATI CAMPUS**

Nestled amidst the scenic beauty of the Krishna River and surrounded by natural wonders and historical sites, Amaravati city embodies the principles of sustainability and liveability. We are building one of the most buoyant centre of the research, education and technological advancement, in the all new greenfield capital city.

Amrita Vishwa Vidyapeetham, Amaravati Campus offers programs including B.Tech, and MBA. These programs are specifically designed to provide students with a comprehensive education that equips them with necessary skills and knowledge to excel in their prospective careers.

#### **AMRITAPURI CAMPUS**

Situated in the serene village of Vallikavu, our campus exudes a sense of warmth and tranquility, creating the perfect environment for intellectual growth and personal development. Our educational institution encompasses six prestigious schools and more than 20 research centres, catering to students passionate about various disciplines such as arts, business, humanities, natural sciences, and social sciences. With a sprawling 80-acre expanse of land, our campus provides ample space for learning, exploration, and recreation. The million square feet of built-up area includes state-of-the-art academic blocks, comfortable student hostels, and a range of modern amenities to enhance the overall campus experience.

Amrita Vishwa Vidyapeetham, Amritapuri Campus offers diverse programs in Engineering, Management, Arts, Commerce, Biotechnology, Ayurveda and Social Sciences and Physical Sciences. These programs are specifically designed to provide students with a comprehensive education that equips them with necessary skills and knowledge to excel in their prospective careers.

#### **BENGALURU CAMPUS**

Nestled in the heart of Bengaluru, a thriving center for research, education, and technological advancement, stands a dynamic institution at the forefront of the tech city. The 50 acres' campus, featuring green laws and the burgeoning trees, is well connected by road, rail and air. The campus offers MBA, B. Tech. programs in nine disciplines and M. Tech. programs in six disciplines. The school seeks to prepare graduates with a solution-mindset and with a high degree of ethical standards. Departments are equipped with modern laboratories, design tools and software packages. vision to produce quality engineers with an attitude of service, for the benefit of the society and nation.

The Amrita School of Engineering, Bengaluru offers engineering programs in nine disciplines and MBA. The school seeks to prepare graduates with a solution-mindset and with a high degree of ethical standards. Recruiters from the best companies and institutes in India and abroad seek out these students.

#### **CHENNAI CAMPUS**

The Chennai campus is a beacon for engineering aspirants and research scholars from across the globe, offering a range of cutting-edge programs designed around a choice-based credit system with continuous, hands-on evaluation. Here, students are mentored by a team of experienced and highly qualified faculty, who are dedicated to equipping them with the latest knowledge and skills to meet the demands of modern engineering.

As a thriving hub of art, technology, education, and industry, Chennai, the vibrant capital of Tamil Nadu, stands tall as one of India's foremost metropolitan cities, where tradition and progress go hand in hand.

Located just 40 km from the heart of Chennai, the School of Engineering is nestled in the serene village of Vengal, near the historic Periyapalayathamman Temple, along State Highway providing a tranquil yet inspiring environment where the future of engineering is being shaped.

At the School of Engineering, dreams take flight, nurtured in an environment that encourages innovation, fosters creativity, and prepares students to be leaders in the ever-evolving world of technology.

#### **COIMBATORE CAMPUS (HEADQUARTERS)**

The beginnings of Amrita Vishwa Vidyapeetham, one of the top ranked <u>deemed university</u>, can be traced back to 1994 when a School of Engineering was established in an obscure village named Ettimadai, situated at the foothills of the Bouluvanpatty ranges of the Western Ghats in the Coimbatore district of Tamil Nadu. During that time, there were 120 students and 13 faculty members. Today, Amrita Vishwa Vidyapeetham has expanded to ten campuses located in six different states of India. It has a student population of over 12,000 and a faculty strength of nearly 1,500. The university offers more than 120 UG, PG, and doctoral programs. When Amrita became an institution in January 2003, it was the youngest group of institutions to be conferred.

Amrita Vishwa Vidyapeetham, Coimbatore Campus offers diverse programs in Agriculture, Engineering, Sciences, Communication, Management and Law.

#### **FARIDABAD CAMPUS**

Amrita Vishwa Vidyapeetham has launched B.Tech. and M.Tech. programmes in Artificial Intelligence and Data Science at our Faridabad Campus, Delhi NCR. These pioneering programmes represent a significant advancement in technology education, blending cutting-edge AI techniques with a broad spectrum of applications across various industries. Students will gain hands-on experience through real-world projects and access to advanced AI facilities, preparing them to excel in diverse fields such as technology, finance, engineering, and more.

These programmes are crafted to nurture the next generation of leaders and innovators in Al and Data Science, setting the stage for breakthroughs across various sectors. Join us to be at the forefront of technological advancement and industry transformation. Amrita Vishwa Vidyapeetham, Faridabad Campus offers diverse programs including Nursing, MBBS, Allied Health science courses, B.Tech and M.Tech.

#### NAGERCOIL CAMPUS

Located in the vibrant city of Nagercoil, Tamil Nadu, our sprawling 100-acre green campus offers the perfect blend of natural beauty and modern infrastructure, creating an ideal environment for academic growth and innovation. Situated in Erachakulam, Nagercoil, Amrita Vishwa Vidyapeetham is a hub of educational excellence, inspired by Amma's vision of holistic education rooted in the philosophy of "Education for Life." Here, we emphasize compassion-driven research, nurturing not only intellectual growth but also a deep sense of responsibility towards society and the world. Amrita's Nagercoil campus is a testament to academic and cultural harmony, offering a diverse array of disciplines across multiple schools and research centres. This reflects the rich educational heritage and cultural diversity of the region, making it a beacon for students aspiring to achieve both personal and professional success. At Amrita, Nagercoil, we are committed to fostering an environment where students can thrive academically, culturally, and personally, equipping them with the tools they need to become leaders in their chosen fields.

#### HARIDWAR CAMPUS

Situated in the ancient and revered city of Haridwar, the campus will stand as a paragon of academic rigor and intellectual pursuit. It will offer a comprehensive range of academic disciplines through its various schools and research centres, reflecting the rich educational and cultural heritage of the region, and fostering an environment where knowledge meets innovation. Amrita Vishwa Vidyapeetham's campus in Haridwar, nestled on the sacred banks of the Ganges, is poised to become a landmark of educational excellence. This new campus will embody Amma's profound vision of "education for life" and her emphasis on compassion-driven research, extending the university's mission to the spiritual heartland of India.

#### **B.TECH ADMISSION PROCEDURE**

Admission to **B.Tech programmes** offered at – Amaravati, Amritapuri, Bengaluru, Chennai, Coimbatore Faridabad, Haridwar and Nagercoil campuses for the Academic Year (AY) 2026-2027 is through and based on the rank scored in:

# Amrita Entrance Examination – Engineering (AEEE) 2026 (OR) JEE Mains 2026 percentile

It is NOT mandatory to have both the above. AEEE 2026 will be conducted in 2 phases. Candidates can attend any one of the phases OR both phases to secure AEEE 2026 rank.

Students desirous of joining B.Tech programme, after passing their plus two or equivalent examination are required to attend Amrita Entrance Examination - Engineering 2026 or apply with the JEE Mains 2026 Percentile.

Rank in AEEE 2026 is not mandatory if applied with JEE Mains 2026 Percentile. If JEE Mains is conducted multiple times, best percentile score among the multiple scores released prior to the Amrita Centralised Seat Allotment Process (CSAP) shall be submitted for the allotment.

Admission to B.**Tech programmes** offered at our various campuses of Amrita Vishwa Vidyapeetham is fully managed by Directorate of Admissions.

**Note:** Those who appear for +2 or Equivalent examination in March/April 2026 and expect to secure minimum marks (as specified), may also apply. However, the necessary mark sheets and certificates to prove the eligibility is to be produced at the time of admissions.

#### **ELIGIBILITY & CRITERIA**

AGE/DATE OF BIRTH: Candidates, whose date of birth falls on or after 1st July 2005.

#### **EDUCATIONAL QUALIFICATIONS:**

"A pass in 10 + 2 (Class XII) or its equivalent examination from a recognized Board with a minimum of 60% aggregate marks in Physics, Chemistry and Mathematics, and not less than 50% marks in each of these three subjects (Physics, Chemistry and Mathematics) individually".

#### **Nationality**

- The applicant for B.Tech shall be a Resident / Non-Resident Indian National / OCI / PIO Holder.
- Foreign applicants who studied/studying abroad can apply through Amrita Center for International Programmes(https://www.amrita.edu/international).

#### **Qualifying Examination**

Candidates appearing for the AEEE-2026, in any one of the following qualifying examinations:

- The final examination of the 10+2 system, conducted by any recognized Central / State Board, such as the Central Board of Secondary Education (CBSE), Council for the Indian School Certificate Examinations (CISCE) or any other Board accepted by Amrita as equivalent to 10+2 examination.
- Intermediate or two-year Pre-University Examination conducted by a recognized Board / University.
- General Certificate Education (GCE) examination (London / Cambridge / Sri Lanka) at the Advanced (A) level.
- High School Certificate Examination of the Cambridge University or International Baccalaureate Diploma of the International Baccalaureate Office, Geneva.
- Senior Secondary School Examination conducted by the National Institute of Open Schooling with minimum of 5 subjects as recognized by central board.

## **CAMPUSES & BRANCHES**

Amaravati (ARV) | Amritapuri (AMP) | Bengaluru (BLR) | Chennai (CHN)
Coimbatore (CBE) | Faridabad (FDB) | Haridwar (HDR) | Nagercoil (NGL)

| Admission to B.Tech Programmes   | ARV | АМР | BLR      | СВЕ      | CHN      | FDB | HDR | NGL      |
|--|-----|-----|----------|----------|----------|-----|-----|----------|
| Aerospace Engineering  |     |     |          | ✓        |          |     |     |          |
| Artificial Intelligence (AI) And Data Science  | ✓   | ✓   | ✓        | ✓        | ✓        | ✓   | ✓   | <b>4</b> |
| Artificial Intelligence and Data Science (Medical Engineering)                       |     |     |          | ✓        |          | ✓   |     |          |
| Artificial Intelligence and Data<br>Science (Cyber Physical Systems<br>and Security) |     |     |          | <b>✓</b> |          |     |     |          |
| Artificial Intelligence and Data Science (Autonomous Agents & Robotics)              |     |     |          | ✓        |          |     |     |          |
| Artificial Intelligence and Data Science (Quantum Technologies)                      |     |     |          | ✓        |          |     |     |          |
| Automation & Robotics Engineering  |     |     |          | ✓        |          |     |     |          |
| Civil Engineering  |     |     |          | ✓        |          |     |     |          |
| Chemical Engineering   |     |     |          | ✓        |          |     |     |          |
| Computer Science & Engineering   | ✓   | ✓   | ✓        | ✓        | ✓        |     | ✓   | ✓        |
| Computer Science & Engineering (AI)  | ✓   | ✓   | ✓        | ✓        | ✓        |     |     |          |
| Computer & Communication<br>Engineering  | ✓   |     |          | ✓        | ✓        |     |     |          |
| Computer Science & Engineering (Cyber Security)                                      |     | ✓   |          | ✓        | ✓        |     |     |          |
| Electronics & Communication Engineering  |     | ✓   | ✓        | ✓        | <b>√</b> |     | ✓   | ✓        |
| Electrical & Electronics Engineering   |     | ✓   | ✓        | ✓        |          |     |     |          |
| Electronics & Computer Engineering   |     | ✓   | ✓        |          |          |     |     |          |
| Electrical & Computer Engineering  |     | ✓   | ✓        | ✓        |          |     |     |          |
| Mechanical Engineering   |     | ✓   | <b>√</b> | ✓        | ✓        |     |     |          |
| Robotics And Artificial Intelligence   |     | ✓   | ✓        |          | ✓        |     |     |          |

#### AEEE / JEE SEAT ALLOCATION for B.TECH PROGRAMS

| AEEE 2026: | 70 % of the seats |
|------------|-------------------|
|            |                   |

JEE Mains 2026: 30 % of the seats

A candidate can choose to apply either through AEEE or JEE Mains 2026 individually or even select both. The above percentage is only a guideline and will be decided at the time of centralized seats allotment process.

#### **ABOUT AMRITA ENTRANCE EXAMINATION ENGINEERING 2026**

Amrita Entrance Examination - Engineering 2026 **(AEEE)** will be conducted in **Computer Based Test** (CBT) mode in various centres at selected cities. All updates will be posted on the website <a href="https://aeee.amrita.edu">https://aeee.amrita.edu</a>.

AEEE 2026 is administered and conducted by Amrita Vishwa Vidyapeetham, Deemed to be University for admission to its prestigious B.Tech programs offered across its various campuses. AEEE is a national-level exam, known for its rigorous and fair assessment of candidates' aptitude in subjects like Mathematics, Physics, Chemistry, Aptitude and English. AEEE offers students a gateway to join one of India's top-ranked private engineering institutions, renowned for its high academic standards, world-class academic infrastructure, & with emphasis on research & innovation.

By attending AEEE, candidates get the opportunity to study in a diverse and vibrant environment, with access to scholarship seats, global exposure, and cutting-edge learning resources, making Amrita Vishwa Vidyapeetham a preferred choice for aspiring engineers.

#### **AEEE 2026 - CITIES**

AEEE 2026 will be conducted in 2 phases in several cities in India and few cities in the middle east. Candidates shall choose the cities from the dropdown menu during the registration process. Visit <a href="https://aeee.amrita.edu">https://aeee.amrita.edu</a> for more details. An indicative list of cities for AEEE 2026 is appended in the end of this handbook.

#### **AEEE 2026 - PATTERN**

| Duration       | Subjects   | No. of Questions |
|----------------|--|------------------|
| 150<br>Minutes | Mathematics – 40 ,Physics – 25 ,Chemistry – 20<br>English – 5 , Quantitative Aptitude – 10 | 100              |

#### **AEEE 2026 – DATES AND SLOT TIMINGS**

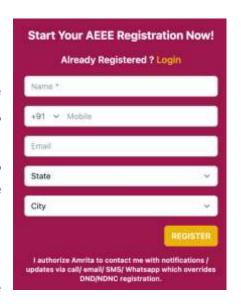
| Date of Examination  | Slots & Timing   |
|--|--|
| Phase I – 30 <sup>th</sup> January to 1 <sup>st</sup> February, 2026 | Slot 1: 09:30 AM – 12:00 Noon;<br>Slot 2: 02:00 – 04:30 PM |
| Phase II – 25 <sup>th</sup> April to 30 <sup>th</sup> April, 2026    | Slot 1: 09:30 AM – 12:00 Noon;<br>Slot 2: 02:00 – 04:30 PM |

#### **Important Note:**

- (i) These dates are tentative. The number of days of the Examination will be changed depending on the strength of the candidates.
- (ii) Dates may get deferred
  - a) Based on the government notifications
  - b) In case there is any other major examination scheduled on these dates and / or due to which majority of the candidates are unable to appear for AEEE 2026.
  - c) Because of any other reason
- (iii) It is NOT mandatory to attend both the phases of AEEE 2026.
- (iv) Candidates who have appeared in Phase I of the AEEE 2026 are allowed to improve their scores by attending Phase 2 by paying an additional fee of **INR 600**.
- (v) Candidates who are unable to attend Phase I of the AEEE 2026 will have the provision to attend Phase II.
- (vi) Best score from both Phase I and Phase II of AEEE 2026 will be taken for AEEE 2026 Ranking.
- (vii) University holds the right to defer the mode / State / City / Venue / dates / slots of the examinations as per the situation, whatsoever, prevailing at that time.
- (viii) Candidates are advised to check the registered email or visit the website <a href="https://aeee.amrita.edu">https://aeee.amrita.edu</a> regularly for the latest updates.

# AEEE 2026 REGISTRATION/ APPLYING WITH JEE MAINS 2026 PERCENTILE

AEEE 2026 registration is fully online via the portal <a href="https://aeee.amrita.edu">https://aeee.amrita.edu</a> The candidates are advised to have their own personal and valid email ID and mobile No. The candidates are advised to retain the registered mobile number and email-id they have used to register, till all the admission procedures are completed as all important updates will be informed to the candidates through SMS / e-mail or both to the registered mobile No. /e-mail ID.



#### **Registration / Application Fees:**

| AEEE only | AEEE + JEE | JEE only |
|-----------|------------|----------|
| INR 1300  | INR 1300   | INR 500  |

Registration fee for candidates attending test abroad - USD 85 or INR 7500/-

The application fee payment is ONLY online and will not be accepted through any other means. Application fee once paid will not be refunded (full or partial) under any circumstances. However, excess fee paid because of payment failures will be reimbursed.

You need to complete the following sections to submit the application for registration. Refer next section for more details on application form data. You are to fill all the details initially and complete the payment, but the application is deemed to be completed only after the payment.

#### **Details to be filled are:**

- a) Visit <a href="https://aeee.amrita.edu">https://aeee.amrita.edu</a>
- **b)** Start by filling Name, Mobile Number, Email ID, State and City.
- c) You need to verify the mobile number in this step.

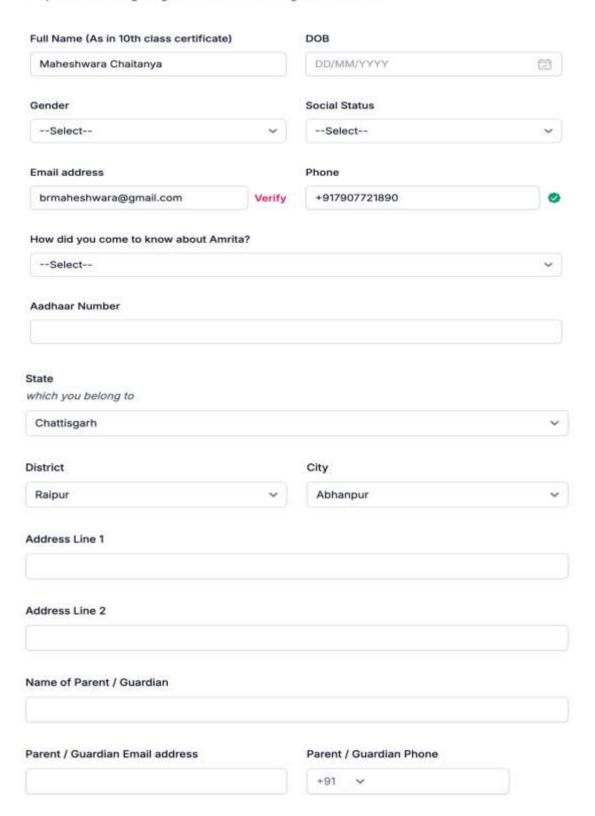
#### AEEE 2026 REGISTRATION FORM DATA ENTRY(points to be noted):

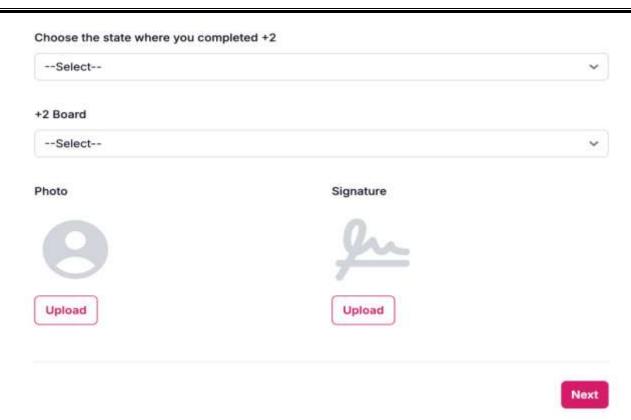
- The cost of registration form is not refundable.
- ◆ The name of the candidate and his/her parents' name in the application form must exactly be the same as registered in Class 10<sup>th</sup> Certificate. Prefix/title such as Mr./Shri/Fr/Dr/Mrs./Smt./Col etc., must not be used.
- ◆ Candidates must ensure that the information (like your name, father's name, gender, date of birth, community, Mobile number, e-mail address, photograph, and signature, choice of cities for examination centre, etc.) provided by them in their online registration form is correct.
- ◆ Candidates are requested to fill in the registration Form carefully. No corrections will be permitted once the registration form is submitted
- ◆ Any request for change in the particulars and uploaded scanned images at any stage will not be considered by AMRITA under any circumstances.
- ◆ AMRITA will not entertain the corrections sent by the candidates through Post/ Fax/ WhatsApp/ E-mail/ Online Service request/by Hand.
- Multiple registrations will not be accepted and will lead to the cancellation of the registration/admission.



#### Candidate Information

 Responsibility of entering the correct data solely lies with the candidate. University will not be responsible for not getting communication if wrong data is entered.





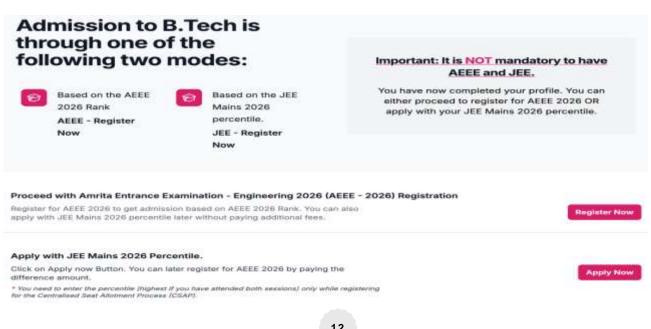
After completing the profile, candidates are required to review the details entered and update changes if any.

#### **Important Note:**

You can choose two options to join B.Tech programme at Amrita.

- 1. By attending AEEE 2026 and securing a rank in AEEE 2026.
- With JEE Mains 2026 Percentile.

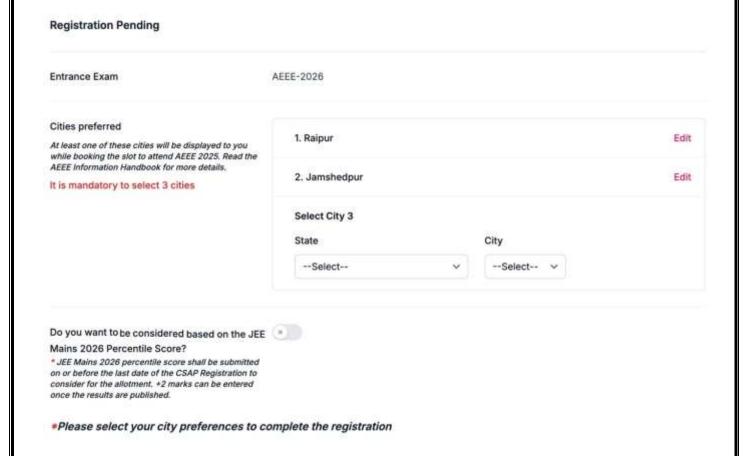
IT IS NOT MANDATORY TO HAVE BOTH AEEE 2026 and JEE Mains 2026 percentile for admission to B.Tech. You are free to choose the mode of admission. Even after choosing one option, you can opt for the other one any time. After registering for AEEE 2026, you can later opt through JEE Mains 2026 without submitting additional application and without paying additional fees.



#### **CHOOSING AEEE 2026 CITIES**

The names of the cities where AEEE 2026 will be conducted are listed in the portal. AEEE 2026 will be conducted in a center in these cities, provided there are enough candidates. Choose three cities listed to attend the examination. A candidate appearing for AEEE 2026 shall submit three preferences to proceed with the registration. The preferences submitted by the candidate are only indicative and a guide to the University for deciding the number of AEEE 2026 centers in each city. A candidate will be allotted one out of the three preferred cities, preferably the first preferred city. If exam cannot be conducted at the first preferred city of a candidate, for any reason whatsoever, he / she will be allotted to second / third preference as applicable. University will put all efforts to conduct examination at all the cities listed in the portal. If any city in the list is cancelled due to very less registrations or for any other reason, the candidates who have opted for that city will be allotted to another city nearest to their preference and the same will be informed to the candidates by email.

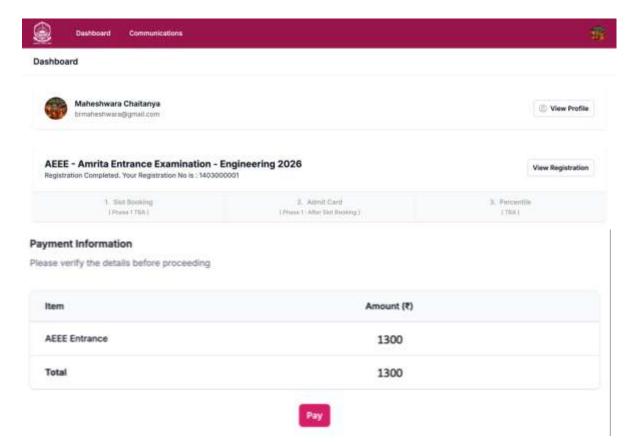
Choose the Cities to attend AEEE 2026.



#### **REQUESTS FOR CHANGE OF CITY**

The requests for change of cities will not be entertained after the application submission. The decision of the Admission Committee will be final in case of any such requests raised in this regard.

#### REGISTRATION FEE PAYMENT



#### REGISTRATION COMPLETION

Registration is deemed to be completed only once the payment has been successful.

#### **PAYMENT ISSUES**

- In the event of payment failure, try paying after few hours.
- If you end up paying excess amount, the excess amount paid will be reimbursed by the university.

Screen after the payment:

## SYLLABUS, PATTERN AND EVALUATION

- The questions are based on the syllabus of Class 11 & Class 12. (Refer Appendix II in this handbook)
- The pattern of examination paper for **AEEE 2026** is given in the website: https://aeee.amrita.edu
- All the questions are of **Multiple-Choice type** and will have four options as possible answers.
- Candidates may choose the most appropriate answer which can be changed later, before the final submission.
- 3 (Three) marks are awarded for each correct answer and -1 (negative one) for each wrong answer.

#### NUMBER OF QUESTIONS AND MARK DISTRIBUTION for AEEE 2026

| Subject               | No. of Questions | Marks (3) |
|-----------------------|------------------|-----------|
| Mathematics           | 40               | 120       |
| Physics               | 25               | 75        |
| Chemistry             | 20               | 60        |
| English               | 05               | 15        |
| Quantitative Aptitude | 10               | 30        |
| TOTAL                 | 100              | 300       |

#### **Use of Calculator and Communication Aids**

Use of electronic devices like mobile phones, calculators etc. are **NOT PERMITTED** for AEEE 2026. Materials like log table, book, notebook, Instruments, any kind of paper, stationery, Textual material. (printed or written), watches with facilities of calculator, any metallic item or electronic gadgets/devices etc. should **NOT** be brought into the examination hall for CBT. Candidates are also hereby warned not to use the calculator in the computer while taking the test. Any candidate found to have used the system calculator will be debarred from admission.

#### **SLOT BOOKING FOR AEEE 2026**

- Candidates shall choose 3 dates of their choice to attend AEEE 2026.
- Date & slot allotment is an automated process. Date & slot will be allotted 7 days prior to the first examination date.
   The candidates are advised to check the website(www.aeee.amrita.edu) regularly for the latest updates

#### **ADMIT CARD**

Admit Card is issued provisionally to the candidate to attend AEEE 2026. Admit Card is generated only to those eligible candidates who have booked their slot. Slots can be booked only if the AEEE 2026 registration is completed in all respects. Admit Card for AEEE 2026 can be downloaded from the portal from the date announced by the university.

- 1. It is mandatory to verify your Aadhaar before downloading the AEEE 2026 Admit Card.
- 2. Admit Card will not be sent by post.
- 3. The Admit Card will have details like the Name & Registration Number of the candidate, Date of Exam, Address of the Exam Centre allotted etc. printed.
- 4. After downloading the admit card, ensure that the data is printed as submitted by you online during the registration process.
- 5. Admit Card is an important document and must be kept safe till the completion of admission procedure.
- 6. Candidate will not be permitted to appear for the AEEE 2026 without a valid Admit Card.
- 7. Candidate shall produce the Admit Card when demanded by the invigilator in the examination center.
- 8. Candidates shall appear for AEEE 2026 at the center at their own cost on the date & slot as printed on the Admit Card.
- 9. Request from a candidate for change of city allotted to him/her will NOT be entertained under any circumstances.
- 10. Issue of Admit Cards does not mean acceptance of eligibility for admission.

#### **AEEE 2026 GUIDELINES FOR CANDIDATES**

- 1. Candidates are required to report at the examination centre at least 1 hour prior to the scheduled time of the examination.
- 2. Registration at the examination centre is mandatory.
- It is mandatory to carry the Admit Card and Aadhaar card (preferred) to verify your identity.
   The details on the Aadhaar card shall match with the details entered during the online registration.
- 4. Computer to attend the examination is allotted only at the time of registration at the centre.
- 5. The candidates shall occupy their seats 30 minutes prior to the commencement of the examination. Candidates are likely to miss some of the general instructions to be announced in the lab in the event of late arrival.
- 6. Candidates shall occupy only their allotted seat. If any candidate is found to have changed the seat other than the allotted one, his/her AEEE 2026 candidature will be cancelled, and no plea would be accepted.
- 7. The candidate must show, on demand, the Admit Card to enter the lab.
- 8. The examination will start at the time mentioned in the Admit Card. In an unforeseen event of a late commencement because of power failure or any technical reason, time will be given as per the rules to each candidate to complete the examination.
- 9. Candidates arriving late will not be have any time extended to complete the examination.
- 10. The invigilator will check the Admit Card of the candidate to satisfy the identity of each candidate anytime during the examination.
- 11. Candidates are to approach only the Invigilator in the room for any technical assistance, first aid emergency, or for any other information during the examination.

In case a candidate, by furnishing false information, appears in more than one slot/date in a particular phase, his/her candidature will be cancelled, and his/her result will not be declared.

<u>Note:</u> Link to attend sample/mock examination is published on the website for practice purposes and to get acquainted with Computer Based Test (CBT).

#### CODE OF CONDUCT

The candidates are governed by the Rules and Regulations of the University regarding their conduct during the examination. All cases of unfair means will be dealt with as per university rules and government rules/policies/laws. Candidates shall maintain perfect silence and attend to their exam only. Any conversation or gesture or disturbance during the examination shall be deemed as misbehavior.

If a candidate is found using unfair means or impersonating, his/her candidature shall be cancelled, and he/she will be liable to be debarred for taking examination either permanently or for a specified period according to the nature of offence. The decision of the Admission Committee is final and is binding on the candidate.

The result of the candidate(s) who indulges in unfair means / practices will be cancelled and will not be declared. Similarly, the result of those candidates who appear from the centre other than the one allotted to them or allow another candidate/person to write the examination on his behalf will be cancelled. No plea will be entertained in this regard.

#### **AEEE 2026 RESULTS**

AEEE 2026 will be conducted in two phases. It is NOT mandatory to attend both the phases. Candidates may register for Phase 2 after attending Phase 1 if they feel to improve their scores. The best percentile among two phases will be taken for ranking. AEEE 2026 rank will be released for all the candidates who have appeared in Amrita Entrance Examination - Engineering 2026 provided the candidate has not indulged in any sort of malpractice and /or against the rules and regulations of the examination as laid by the University. Candidates will be able to view their results in the admission portal.

#### **FEE STRUCTURE**

Refer our website: www.aeee.amrita.edu

#### POLICIES & RULES ON WITHDRAWAL / CANCELLATION OF ADMISSION

Procedures and rules on the withdrawal from the admission process is published prior to the counseling process. Candidates are requested to visit the application portal for all the admission updates.

#### REFUND POLICY

- Refund will be made as per the norms of University Grants Commission (UGC).
- ❖ Refund will be made only after the candidate has entered all the necessary details in the portal and no dues certificate in case of those cancelling the admission after the commencement of classes. The refund will be made through account transfer to the account mentioned in the withdrawal request. Hence, the correct bank account details may be provided in the withdrawal request.
- \* Refund will be processed only after the final allotment.

#### SETTLEMENT OF DISPUTES

In case of any disputes in the interpretation of any of the conditions included in this handbook or in any other matter related to B.Tech admissions 2026 covered by the Rules and Regulations contained herein, decision of the Director of Admissions, Amrita Vishwa Vidyapeetham will be final and binding on the candidate.

#### JURISDICTION

Courts situated in Coimbatore District, Tamil Nadu only will have jurisdiction over disputes, if any, arising on the matter of application and/or admission to the courses covered in these Rules and Regulations.

# ALL CORRESPONDENCE RELATED TO B.TECH ADMISSION SHOULD BE ADDRESSED TO:

### **Directorate of Admissions**

Amrita Vishwa Vidyapeetham,

Amritanagar (PO), Ettimadai,

Coimbatore – 641112, Tamilnadu.

Phone : **044 - 46276066** [Toll Free]

Email: aeee@amrita.edu

## **APPENDIX I - AEEE 2026 CITIES**

| SI. No. | State Name        | City Names                      |
|---------|-------------------|---------------------------------|
| 1       |                   | ANANTAPURAMU (ANANTAPUR)        |
| 2       |                   | CHITTOOR                        |
| 3       |                   | EAST GODAVARI                   |
| 4       |                   | ELURU                           |
| 5       |                   | GUNTUR (AMARAVATI)              |
| 6       |                   | KAKINADA                        |
| 7       |                   | KRISHNA                         |
| 8       |                   | KURNOOL                         |
| 9       | ANDHRA PRADESH    | NELLORE                         |
| 10      |                   | PRAKASAM (ONGOLE)               |
| 11      |                   | SRIKAKULAM                      |
| 12      |                   | TIRUPATI                        |
| 13      |                   | VIJAYAWADA                      |
| 14      |                   | VISAKHAPATNAM                   |
| 15      |                   | VIZIANAGARAM                    |
| 16      |                   | WEST GODAVARI (TADEPPALLIGUDAM) |
| 17      |                   | YSR (CUDAPPA)                   |
| 18      | ASSAM             | GUWAHATI [GAUHATI]              |
| 19      | BIHAR             | MUZZAFARPUR                     |
| 20      | ППАК              | PATNA                           |
| 21      | CHANDIGARH        | CHANDIGARH                      |
| 22      | CHATTISGARH       | BILASPUR                        |
| 23      | CHATTISGANT       | RAIPUR                          |
| 24      | DELHI             | DELHI                           |
| 25      | GOA               | GOA                             |
| 26      |                   | AHMEDABAD                       |
| 27      | GUJARAT           | SURAT                           |
| 28      |                   | VADODARA                        |
| 29      | HARYANA           | FARIDABAD                       |
| 30      | HANTAIVA          | GURUGRAM (GURGAON)              |
| 31      | JAMMU AND KASHMIR | JAMMU                           |
| 32      |                   | DHANBAD                         |
| 33      | JHARKHAND         | JAMSHEDPUR                      |
| 34      |                   | RANCHI                          |

| SI. No. | State Name                  | City Names                 |
|---------|-----------------------------|----------------------------|
| 35      |                             | BELAGAVI (BELGAUM)         |
| 36      | KARNATAKA                   | BENGALURU (BANGALORE)      |
| 37      |                             | HUBLI                      |
| 38      |                             | KALABURGI                  |
| 39      |                             | MANGALORE                  |
| 40      |                             | MYSURU                     |
| 41      |                             | ALAPUZHA                   |
| 42      | KEDALA G MANIE              | ERNAKULAM                  |
| 43      | KERALA & MAHE               | KANNUR                     |
| 44      |                             | KASARGOD                   |
| 45      |                             | KOLLAM                     |
| 46      |                             | KOTTAYAM                   |
| 47      |                             | KOZHIKODE                  |
| 48      | WEDALA G A44115             | MALAPPURAM                 |
| 49      | KERALA & MAHE               | PALAKKAD                   |
| 50      |                             | PATHANAMTHITTA             |
| 51      |                             | THIRUVANANTHAPURAM         |
| 52      |                             | THRISSUR                   |
| 53      | AAADUWA BRADESU             | BHOPAL                     |
| 54      | MADHYA PRADESH              | INDORE                     |
| 55      |                             | AURANGABAD                 |
| 56      | NAALIA DA CUTDA             | MUMBAI                     |
| 57      | MAHARASHTRA                 | NAGPUR                     |
| 58      |                             | PUNE (POONA)               |
| 59      | ODISHA                      | BHUBANESHWAR               |
| 60      | PUNJAB                      | JALANDHAR [JULLUNDUR]      |
| 61      |                             | JAIPUR                     |
| 62      |                             | JODHPUR                    |
| 63      | RAJASTHAN                   | КОТА                       |
| 64      |                             | SIKAR                      |
| 65      |                             | UDAIPUR                    |
| 66      |                             | CHENNAI [MADRAS]           |
| 67      |                             | COIMBATORE                 |
| 68      | TAMII NADII 8 DIIDIICIIEDDY | DINDIGUL                   |
| 69      | TAMIL NADU & PUDUCHERRY     | ERODE                      |
| 70      |                             | HOSUR                      |
| 71      |                             | KANCHIPURAM (KANCHEEPURAM) |

| Sl. No. | State Name              | City Names                 |
|---------|-------------------------|----------------------------|
| 72      |                         | KARUR                      |
| 73      |                         | MADURAI                    |
| 74      |                         | NAGERCOIL                  |
| 75      |                         | NAMAKKAL                   |
| 76      |                         | ООТТУ                      |
| 77      |                         | PONDICHERY (PUDUCHERRY)    |
| 78      |                         | SALEM                      |
| 79      | TAMIL NADU & PUDUCHERRY | THANJAVUR                  |
| 80      |                         | THENI                      |
| 81      |                         | THENKASI                   |
| 82      |                         | тноотниккирі (тноотникирі) |
| 83      |                         | TIRUCHIRAPALLI             |
| 84      |                         | TIRUNELVELI                |
| 85      |                         | TIRUPPUR                   |
| 86      |                         | VELLORE                    |
| 87      |                         | HYDERABAD                  |
| 88      |                         | KARIMNAGAR                 |
| 89      |                         | КНАММАМ                    |
| 90      |                         | MEHBUBNAGAR (MAHABUBNAGAR) |
| 91      | TELANGANA               | NIZAMABAD                  |
| 92      |                         | RANGAREDDY                 |
| 93      |                         | SANGAREDDY (SANGAREDDI)    |
| 94      |                         | SURYAPET                   |
| 95      |                         | WARANGAL                   |
| 96      |                         | AGRA                       |
| 97      |                         | GHAZIABAD                  |
| 98      |                         | GORAKHPUR                  |
| 99      |                         | KANPUR                     |
| 100     | UTTAR PRADESH           | LUCKNOW                    |
| 101     |                         | MEERUT                     |
| 102     |                         | NOIDA                      |
| 103     |                         | PRAYAGRAJ                  |
| 104     |                         | VARANASI [BENARES]         |
| 105     | UTTARAKHAND             | DEHRADUN                   |
| 106     |                         | DURGAPUR                   |
| 107     | WEST BENGAL             | KOLKATA [CALCUTTA]         |
| 108     |                         | SILIGURI                   |
| 109     | UNITED ARAB EMIRATES    | DUBAI                      |

#### **APPENDIX II - AEEE 2026 Syllabus**

#### **MATHEMATICS**

- **Unit 1: Sets, Relations and Functions:** Sets and their representation: Union, intersection and complement of sets and their algebraic properties; Power set; Relation, Type of relations, equivalence relations, functions; one-one, into and onto functions, the composition of functions.
- **Unit 2: Complex Numbers:** Complex numbers in the form a+ib and their representation on a plane. Argand diagram. Algebra of complex numbers, Modulus and argument (or amplitude) of a complex number, square root of a complex number. Cube roots of unity, triangle inequality.
- **Unit 3: Permutations and Combinations:** Fundamental principle of counting; Permutation as an arrangement and combination as selection, simple applications.
- **Unit 4: Binomial Theorem:** Binomial theorem for positive integral indices. General and middle terms in binomial expansions, simple applications.
- **Unit 5: Sequences and Series:** Arithmetic, Geometric and Harmonic progressions. Insertion of Arithmetic, Geometric and Harmonic means between two given numbers. Relation between A.M., G.M. and H.M. Special series  $\sum n$ ,  $\sum n2$ ,  $\sum n3$ . Arithmetico-Geometric Series, Exponential and Logarithmic Series.
- **Unit 6: Matrices and Determinants:** Determinants and matrices of order two and three, Properties of determinants. Evaluation of determinants. Addition and multiplication of matrices, adjoint and inverse of matrix. Solution of simultaneous linear equations using determinants.
- **Unit 7: Quadratic Equations:** Quadratic equations in real and complex number system and their solutions. Relation between roots and coefficients, Nature of roots, Formation of quadratic equations with given roots.
- **Unit 8: Trigonometry:** Trigonometrical identities and equations. Inverse trigonometric functions and their properties. Properties of triangles including centroid, incentre, circumcentre and orthocentre, Solution of triangles. Heights and distances.
- **Unit 9: Measures Of Central Tendency and Dispersion:** Calculation of Mean, Median and Mode of grouped and ungrouped data, Calculation of standard deviation, variance and mean deviation for grouped and ungrouped data.
- **Unit 10: Probability:** Probability of an event, addition and multiplication theorems of probability and their applications; Conditional probability; Bayes' theorem, Probability distribution of a random variate; Binomial and Poisson distributions and their properties.
- **Unit 11: Differential Calculus:** Polynomials, rational, trigonometric, logarithmic and exponential functions; Graphs of simple functions, Limits, Continuity; Differentiation of the sum, difference, product and quotient of two functions; Differentiation of trigonometric, inverse trigonometric, logarithmic, exponential, composite and implicit functions; Derivatives of order upto two, Applications of derivatives; Maxima and Minima of functions one variable, tangents and normals, Rolle's and Langrage's Mean Value Theorems.
- **Unit 12: Integral Calculus:** Integral as an anti-derivative. Fundamental integrals involving algebraic, trigonometric, exponential and logarithmic functions; Integration by substitution, by

parts and by partial fractions; Integration using trigonometric identities; Integral as a limit of sum; Properties of definite integrals. Evaluation of definite integral; Determining areas of the regions bounded by simple curves.

**Unit 13: Differential Equations:** Ordinary differential equations, their order and degree; Formation of differential equation; Solutions of differential equations by the method of separation of variables; Solution of Homogeneous and linear differential equations of first order.

**Unit 14: Co-ordinate Geometry:** Review of Cartesian system of rectangular co-ordinates in a plane, distance formula, area of triangle, condition for the collinearity of three points, slope of a line, parallel and perpendicular lines, intercepts of a line on the coordinate axes.

**Unit 15: The Straight Line and Pair of Straight Lines:** Various forms of equations of a line, intersection of lines, angles between two lines, conditions for concurrence of three lines, distance of a point from a line. Equations of internal and external bisectors of angles between two lines, equation of family lines passing through the point of intersection of two lines, homogeneous equation of second degree in x and y, angle between pair of lines through the origin, combined equation of the bisectors of the angles between a pair of lines, condition for the general second degree equation to represent a pair of lines, point of intersections and angles between two lines.

**Unit 16: Circles and Family of Circles:** Standard form of equation of a circle, general form of the equation of a circle, its radius and centre, equation of a circle in the parametric form, equation of a circle when the end points of a diameter are given, points of intersection of a line and circle with the centre at the origin and condition for a line to be tangent, equation of a family of circles through the intersection of two circles, condition for two intersecting circles to be orthogonal.

**Unit 17: Conic Sections:** Sections of cones, equations of conic sections (parabola, ellipse and hyperbola) in standard forms, conditions for y = mx+c to be a tangent and point(s) of tangency.

**Unit 18: Vector Algebra:** Vector and scalars, addition of two vectors, components of a vector in two dimensions and three-dimensional space, scalar and vector products, scalar and vector triple product. Application of vectors to plane geometry.

**Unit 19: Three-Dimensional Geometry:** Distance between two points. Direction cosines of a line joining two points. Cartesian and vector equation of a line. Coplanar and skew lines. Shortest distance between two lines. Cartesian and vector equation of a plane. Angle between (i) two lines (ii) two planes (iii) a line and a plane. Distance of a point from a plane.

#### **PHYSICS**

**Unit 1: Units and dimensions:** Units for measurement, system of units, SI, fundamental and derived units, dimensional analysis.

**Unit 2: Kinematics:** Uniform and non-uniform motion, average speed and instantaneous velocity, uniformly accelerated motion, velocity - time, position-time graph, relations for uniformly accelerated motion, Scalars and Vectors, Vector. Addition and subtraction, zero vector, scalar and vector products, Unit Vector, Resolution of a Vector. Relative Velocity, Motion in a plane, Projectile Motion, Uniform Circular Motion.

**Unit 3: Mechanics:** Motion in one-dimension, uniform and non-uniform motion, uniformly accelerated motion; Scalars and Vectors, resolution of Vectors, vector properties. Motion in a plane, Projectile motion, Uniform circular motion.

Newton's laws of motion, conservation of linear momentum, Friction; Work-Energy theorem, kinetic energy, potential energy, conservation of energy; elastic collision in one and two dimensions.

Center of mass of a system of particles, centre of mass of a rigid body, rotational motion and torque, angular momentum and its conservation, moments of inertia for various geometries, parallel and perpendicular axes theorem.

Universal law of gravitation, acceleration due to gravity, planetary motion, Kepler's laws, Satellites, gravitational potential and potential energy and escape velocity.

#### **Unit 4: Solids and Fluids**

**Solids:** Elastic properties, Hooke's law, Young's modulus, bulk modulus, rigidity modulus.

**Liquids:** Cohesion and adhesion; surface energy and surface tension; flow of fluids; Bernouli's theorem and applications; viscosity, Stoke's law, terminal velocity

#### **Unit 5: Oscillations and Waves**

Oscillations: Oscillatory motion - periodic and non-periodic motion; simple harmonic motion (SHM), angular SHM, linear harmonic oscillator – both horizontal and vertical; combination of springs – series and parallel, simple pendulum; Expression of energy – potential energy, kinetic energy and total energy; Graphical representation of SHM; Types of oscillations – free, damped, maintained and forced oscillations and resonance.

Wave Motion: Properties of waves; Transverse and Longitudinal waves; Superposition of waves, Progressive and Standing waves; Vibration of strings and air columns, beats, Doppler Effect.

**Unit 6: Heat and Thermodynamics:** Heat, work and temperature; Ideal gas laws; Specific heat capacity, Thermal expansion of solids, liquids and gases, Relationship between Cp and Cv for gases; Newton's law of cooling, black body, Kirchoff's law, Stafan's law and Wein's law, thermodynamic equilibrium, internal energy; Zeroth, first and second law of thermodynamics, thermodynamic processes, Carnot cycle, efficiency of heat engines, refrigerator

#### Unit 7: Electrostatics, Current Electricity and Magnetostatics

**Electric charges and Fields:** Electric Charge; Conductors and Insulators, Charging by Induction, Basic Properties of Electric Charge, Coulomb's Law, Forces between Multiple Charges, Electric Field, Electric Field Lines, Electric Flux, Electric Dipole, Dipole in a Uniform External Field, Continuous Charge Distribution, Gauss's Law, Applications of Gauss's Law.

**Electrostatic potential and Capacitance:** Electrostatic potential, Potential due to a point charge, electric dipole, system of charges. Equipotential surfaces; Potential energy of a system of charges, potential energy in an external field, Electrostatics of conductors, Dielectric and Polarization, Capacitors and Capacitance, parallel plate capacitor, effect of dielectric on capacitance combination of capacitors, energy stored in a capacitor, Van de Graaff Generator.

**Current Electricity:** Electric current, electric currents in conductors, Ohm's law, drift of electrons and the origin of Resistivity, temperature dependence of resistivity, electrical energy, power, combination of resistors, series and parallel, cells, emf, internal resistance, cells in series and in parallel, Kirchhoff's Rules, Wheatstone bridge, Meter bridge, potentiometer.

**Heating effects of current:** Electric power; concept of thermoelectricity – Seebeck effect and thermocouple, chemical effect of current – Faraday's laws of electrolysis.

**Magnetic effects:** Oersted's experiment, BiotSavart's law, magnetic field due to a straight wire, circular loop and solenoid, force on a moving charge in a uniform magnetic field (Lorentz force), forces and torques on a current carrying conductor in a magnetic field, force between current carrying wires, moving coil galvanometer and conversion to ammeter and voltmeter.

**Magneto statistics:** Bar magnet, magnetic field, lines of force, torque on a bar magnet in a magnetic field, earth's magnetic field; para, dia, and ferro magnetism, magnetic induction and magnetic susceptibility.

#### **Unit 8: Electromagnetic Induction and Electromagnetic Waves**

**Electromagnetic Induction:** Induced e. m. f: Magnetic flux, Faraday's law, Lenz's Law and Conservation of Energy, self and mutual inductance.

**Alternating Current:** Impedance and reactance; power in AC circuits; AC voltage applied to resistor, inductor, capacitor, LCR circuits and resonance, transformer and AC generator.

**Electromagnetic Waves:** Electromagnetic waves characteristics, electromagnetic spectrum from gamma to radio waves.

**Unit 9: Kinetic Theory of Gases:** Equation of state of a perfect gas, work done on compressing a gas, Kinetic theory of gases - assumptions, the concept of pressure. Kinetic energy and temperature: RMS speed of gas molecules: Degrees of freedom. Law of equipartition of energy, applications to specific heat capacities of gases; Mean free path. Avogadro's number.

#### **Unit 10: Ray and Wave Optics**

Ray Optics and optical instruments: Reflection and refraction of light by plain spherical mirrors - Total Internal Reflection; optical fiber; deviation and dispersion of light by a prism; lens formula; magnification and resolving power; microscope and telescope.

**Wave Optics**: Huygens principle: Wave nature of light, interference of light waves and Young's experiment, thin films, Newton's rings, Diffraction – single slit, grating, Polarization and applications.

#### **Unit 11: Modern Physics**

**Dual nature of radiation and matter:** De Broglie relation, Electron emission, photoelectric effect, experimental study, Einstein's photoelectric equation: Energy quantum of radiation; particle nature of light, the photon, wave nature of matter.

Atoms: Alpha-particle scattering and Rutherford's nuclear model of atom, atomic spectra, Bohr model of the hydrogen atom; the line spectra of the hydrogen atom.

Nuclei: Atomic masses and composition of nucleus; size of the nucleus; mass-energy and

nuclear binding energy; nuclear force; radioactivity; nuclear energy

**Semiconductor materials, devices and simple circuits:** Energy bands in solids; classification of metals, conductors and semiconductors; intrinsic semiconductor, extrinsic semiconductor, p-n junction, semiconductor diode, junction diode as a rectifier, junction transistor, transistor as an amplifier.

#### **CHEMISTRY**

- **Unit 1 Basic Chemical calculations**: Density mole concept empirical and molecular formula stoichiometry volumetry, equivalent and molecular masses, percentage composition
- **Unit 2 Atomic structure & periodicity**: atomic models, sub-atomic particles, orbital shapes, Pauli's exclusion, Hund's rule, Aufbau principle, de-Broglie relation, Heisenberg's uncertainty, electronic configuration and periodic properties.
- **Unit 3 Chemical bonding:** Ionic bonding, lattice energy Born-haber cycle, covalent bond Fajan's Rule –VSEPR theory -- hybridization, valence bond and molecular orbital theory, coordinate, metallic and hydrogen bonding
- **Unit 4 S-block and hydrogen:** Hydrogen, isotopes, liquid hydrogen as fuel, alkali metals, oxides and hydroxides, extraction and properties of lithium, sodium and potassium. Group 2 elements and their properties.
- **Unit 5 P-block elements:** Boron borax, boranes, diboranes, Carbon allotropes, oxides, carbides, halides and sulphides of carbon group- silicon and silicates silicones, Nitrogen Fixation compounds of nitrogen- Phosphorous allotropes and compounds. Oxygen oxides and peroxide. Sulphur its compounds inter-halogen compounds.
- **Unit 6 d and f block elements:** d-block elements configuration and properties transition elements, chromium, copper, zinc, silver, interstitial compounds and alloys, f block elements and extraction, lanthanides and actinides
- **Unit 7 Solid state:** Solids amorphous and crystalline, classification of crystalline unit cell, Miller indices packing efficiency, unit cell dimensions, crystal structure, ionic crystals, imperfections in solids, electric and magnetic properties.
- **Unit 8 Coordination compounds:** Terminology in coordination- isomerism, Werner, VBT, CFT theories Bio- coordination compounds.
- **Unit 9 Gaseous State & Surface chemistry:** Gaseous state and gas laws, deviation- van der Waal's constants Joule-Thomson effect liquefaction of gases, theory of catalysis, colloids and emulsions.
- **Unit 10 Colligative properties:** Lowering of vapour pressure, Depression of freezing point, Elevation in boiling point, Osmotic pressure, abnormality dissociation and association
- **Unit 11 Electrochemistry:** Faraday's laws specific, equivalent and molar conductance, Kohlraush's law and applications- electrode potentials EMF, electrochemical and galvanic cells, Nernst equation, batteries, fuel cells, corrosion and its prevention.
- **Unit 12 -Thermodynamics:** First and second law- internal energy, enthalpy, entropy, free energy changes— specific heats at constant pressure and constant volume enthalpy of combustion, formation and neutralization, Kirchoff law Hess's law bond energy
- **Unit 13 Chemical and Ionic Equilibria:** Law of chemical equilibrium, homogenous and heterogeneous equilibrium, Le Chatlier's principle, equilibrium constants, factors affecting- Ionic equilibrium, ionization of acids and bases, buffer solutions, pH -solubility of sparingly soluble salts
- **Unit 14 Chemical kinetics:** Order, molecularity, rate and rate constant first and second order

- reactions temperature dependence, factors influencing rate of reaction, integrated rate equation, collision theory of chemical reaction
- **Unit 15 Basic Organic chemistry:** Classification, functional groups, nomenclature and isomerism, types of organic reactions, mechanism, purification, qualitative and quantitative analysis carbocation, carbanion and free radical, electron displacement in covalent bond.
- **Unit 16 Hydrocarbons & Polymers:** IUPAC nomenclature, alkanes –alkynes aromatic hydrocarbons- nomenclature, preparation, physical and chemical property uses. Polymerization types, molecular mass, biodegradable and commercial polymers.
- **Unit 17 Organic halogen compounds:** Nature of C-X bond preparation properties and reactions of alkyl and aryl halides- polyhalogen compounds substitution and elimination mechanism- Grignard reagents.
- **Unit 18 Stereochemistry and Organic nitrogen compounds:** Preparation properties and uses of Aliphatic and aromatic nitro compounds --aliphatic and aromatic amines, nitriles, Diazonium salts. 1°, 2°, and 3° amines distinction Optical activity.
- **Unit 19 Organic functional groups hydroxyl, carbonyl compounds and ethers**: Nomenclature, preparation, properties and uses of alcohols, ethers, aldehydes, ketones, aliphatic carboxylic acids, benzoic acid salicylic acid.
- **Unit 20 Biomolecules and Environmental chemistry:** Carbohydrates, proteins, amino acids enzymes, vitamins, and nucleic acids lipids. Pollution. air, water and soil industrial waste, acid rain, greenhouse effect, global warming, Strategies to control pollution.

#### **ENGLISH**

Articles, Synonyms, Antonyms, Preposition, Verbs.

#### Note:

This handbook contains general information and rules regarding the Amrita Engineering Entrance Examination 2026 and other relevant details. Candidates are required to go through the handbook carefully and acquaint themselves with the procedures relating to the admission. The contents of the handbook are subject to modification, as may be deemed necessary, by the University. The decision of the University will be final and binding on any issue related to the admission.