



Information Handbook AEEE 2022



AMRITA

SCHOOL OF ENGINEERING

Amritapuri | Bengaluru | Chennai | Coimbatore

Education for **Life**. Education for **Living**.

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About Amrita Vishwa Vidyapeetham

Amrita Vishwa Vidyapeetham is a multi-campus, multi-disciplinary research academia that is accredited 'A++' by NAAC and is ranked as one of the best research Institutions in India. Amrita Vishwa Vidyapeetham has been ranked 5th best among all universities in India in the 2021 **National Institutional Ranking Framework** (NIRF) released by MHRD, Govt. of India on **9th September, 2021**. Amrita is spread across six campuses in three states of India - Kerala, Tamil Nadu and Karnataka, with the headquarters at Ettimadai, Coimbatore, Tamil Nadu. Amrita Vishwa Vidyapeetham continuously collaborates with top US Universities including Ivy league Universities and top European Universities for regular student exchange programs, and has emerged as one of the fastest growing Institutions of higher learning in India. The Institution is managed by the Mata Amritanandamayi Math.



Coimbatore - The Haven of Value Education

Amrita Vishwa Vidyapeetham is situated in the obscure village of Ettimadai, at the foothills of the mesmerising Bouluvanpatty ranges of the Western Ghats in the Coimbatore district of Tamil Nadu. The pristine beauty of nature offers a soothing environment for the students which is conducive for growth. The campus, through its value based education, provides a diverse platform for personality development. Amrita provides a unique educational experience that matches the global level. This indelible experience remains a lasting memory in the students.



**Amritapuri –
The Picturesque Campus at Kollam, Kerala**

The Amritapuri campus, nestled in the backdrop of the beautiful village of Vallikavu, provides warmth and serenity to its visitors. It provides a homely atmosphere to the students. Located close to the international headquarters of the Mata Amritanandamayi Math, the campus provides an environment that harmoniously blends learning and research. The technical excellence of the campus has made it a learning hub for students from all around the globe. Advanced research facilities helps enhance one's appetite for learning.



Bengaluru - The Technology Hub

Located at the heart of Bengaluru, is one of the most effervescent center of the research, education, and technological advancement, in the tech-city. The 50 acres campus, featuring green lawns and the burgeoning trees, is well connected by road, rail and air.



Chennai - The Engineering Campus

The Chennai Campus of Amrita Vishwa Vidyapeetham is spread over 54,834 sqm of land and a total builtup area of 24,956.435 sqm. The Institution's Chennai campus is home to School of Engineering. The School of Engineering, Amrita Vishwa Vidyapeetham, Chennai Campus, was setup as part of the vision of world-renowned, Mata Amritanandamayi Math.

CAMPUSES & BRANCHES OFFERED:

Programs	Amritapuri	Bengaluru	Coimbatore	Chennai
Aerospace Engineering (AEE)			✓	
Automation & Robotics Engineering (ARE)	✓*		✓	✓*
Civil Engineering (CIE)			✓	
Chemical Engineering (CHE)			✓	
Computer Science & Engineering (CSE)	✓	✓	✓	✓
Computer Science & Engineering (Artificial Intelligence – (AIE)	✓	✓	✓	✓
Computer & Communication Engineering (CCE)			✓	✓
Computer Science & Engineering (Cyber Security – (CYS)	✓*		✓	✓
Electronics & Communication Engineering (ECE)	✓	✓	✓	✓
Electrical & Electronics Engineering (EEE)	✓	✓	✓	
Electronics & Computer Engineering (EAC)	✓	✓		
Electrical & Computer Engineering (ELC)	✓		✓	
Mechanical Engineering (MEE)	✓	✓	✓	✓

* Subject to AICTE approval

ADMISSION PROCEDURE

Admission to B.Tech Programmes offered at Amrita School of Engineering – Amritapuri, Bengaluru, Chennai & Coimbatore campuses for the Academic Year (AY) 2022-2023 is **through and based on the rank scored in:**

1. **Amrita Entrance Examination – Engineering(AEEE) 2022 (CBT) (or)**
2. **JEE Mains 2022 (or)**
3. **Scholastic Assessment Test (SAT) (or)**
4. **Pearson UG Entrance Examination Score (PUEE)**

If JEE Mains is conducted multiple times, all the scores released prior to the **Amrita B.Tech. Centralised Seat Allotment Process (CSAP)** will be looked into and the best result considered.

ALLOCATION OF SEAT:

AEEE 2022 : 70% of the seat allotment

JEE Mains 2022, SAT & Pearson : 30% of the seat allotment

A candidate can choose to apply either through AEEE 2022 or other modes such as JEE, SAT & Pearson individually or even select all of them.

AMRITA ENTRANCE EXAMINATION – ENGINEERING 2022 (AEEE 2022)

Amrita Entrance Examination – Engineering 2022 (AEEE 2022) will be conducted in **Computer Based Test (CBT)** mode in various centres at selected cities.

AEEE 2022 will be conducted only in one mode viz. **Computer Based Test(CBT)** this year. In case CBT is unable to be conducted due to the pandemic situation, alternative selection process will be announced by the University later. Please be in touch with the admission web portal for latest updates.

Note: In case a candidate, by furnishing false information, appears in more than one slot / date of the computer-based examination his candidature will be cancelled and his result will not be declared.

COMPUTER BASED TEST (CBT) – Refer APPENDIX 1.

Computer Based Test (CBT) will be conducted in various centres at selected cities only.

University will follow all Covid-19 protocols and take all precautionary measures to ensure social distancing at examination centres and also have a proper disinfection system in place in the centres.

Duration of the CBT examination: 150 minutes (2.5 Hours) of duration with 100 questions.

Examination Dates (Tentative): Amrita Vishwa Vidyapeetham is planning to conduct the Amrita Entrance Examination Engineering (AEEE) 2022 in two phases.

Please refer website (amrita.edu/btech) for the AEEE Exam dates.

NOTE :

Candidates who are unable to appear in Phase I will have the provision to appear in Phase II. Candidates are advised to keep in touch with our website regularly for the latest updates."

Timing:

Slot 1	9.30 – 12.00 Noon
Slot 2	2.00 – 4.30 PM

(slot bookings will be opened in advance before the first phase of examination)

Important Note:

- (i) These dates are tentative
- (ii) The number of days of the Examination will be changed depending on the strength of the candidates.
- (iii) 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 2022.
 - (c) Because of any other reason related to pandemic

Note: University holds the right to defer the mode / dates /slots of the examination as per the situation, whatsoever, prevailing at that time.

Candidates who have appeared in Phase I of the AEEE 2022 examination can also appear for Phase II examination by paying a fee of INR 600.

ELIGIBILITY CRITERIA FOR ADMISSION

Age: Candidates seeking admission shall be born on or after **1st July 2001**.

Educational Qualification: A pass in 12th class or equivalent from a recognized board with not less than 55% in Physics, Chemistry & Mathematics separately and an aggregate minimum of 60% in Physics, Chemistry & Mathematics.

Candidates seeking admission only with Pearson UG Entrance Examination score shall have an aggregate minimum of 75% in Physics, Chemistry, Mathematics(PCM)with not less than 75% in Mathematics.

COST OF APPLICATION FOR AEEE 2022: INR 1200

The application fee may be paid online either by credit / debit card or net banking. **In case the examination fee is paid through credit / debit card, the candidates may have to pay an additional processing charges of the concerned bank.**

Please note that fee submitted through any other mode like money order, demand draft, IPO etc. is not accepted for online applications.

Application fee once paid will not be refunded (full or partial) under any circumstances.

Post your payment queries in Query Management System in the **Amrita Online Application Portal (AOAP)** to get a faster response.

APPLICATION SUBMISSION – ONLINE

Application submission is online and shall be submitted via the website: amrita.edu/btech

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 submitted in the application form till all the admission procedures are completed as all important updates will be informed to the candidates through SMS / e-mail or both.

You need to complete the following sections in order to submit the application. Refer next section for more details on application form data. You can fill all the details initially and complete the payment at a later stage. However, the application is deemed to be completed only after the payment. Details to be filled are:

- a) **Personal Profile** (Name, Address & Contact details, upload Photograph, Signature)
- b) **Application Details**
 - Mode of admission–AEEE / JEE / SAT / PUEE
 - i. AEEE 2022: Choose Examination Centre
 - ii. JEE(Mains)2022: Enter the required details as in JEE scorecard.
- c) **Payment** (Cost of application)
- d) **Academic Profile*** (Marks of the qualifying examination & year, Last attended school, etc.,)
- e) **Upload Documents***.

NOTE: * Academic Profile, documents upload and JEE / SAT / PUEE scores may be entered after the publication of the results. It is not mandatory to fill the same at the time of filling the application.

APPLICATION FORM DATA ENTRY

The name of the candidate and his/her parents' name in the application form must exactly be the same as registered in Class 10th Certificate. Prefix/title such as Mr./Shri/Fr/Dr/Mrs./Smt./Col etc., must not be used.

Candidates shall correct / modify some of the particular(s) of the application data, prior to the commencement of Seat Allotment.

Request for change will not be accepted through phone/ fax/ e-mail etc.

The candidates are advised not to send hard copy of the online application to the University. However, the candidates are advised to retain the hard copy of the application, i.e., acknowledgement page for future reference or correspondence, if any. Candidate(s) may check the status of their application online in our website: amrita.edu/btech.

APPLICATION SUBMISSION – OFFLINE:

Data of all the OMR applications received are entered online in the OMR link of our B.Tech web portal.. Candidates can log in with their Application No. and DoB and can fill in their remaining data. Only after this exercise, the application will be treated as a complete application for further processing.

Candidates are requested to visit the OMR link in our admission portal regularly after sending the Offline application (OMR).

Sample of Offline Application (OMR) appended.

Filling the AEEE OMR Application Form – IMPORTANT

1. **Name of the Candidate** – this shall match with the Identity shown at the time of entrance examination.
2. **Name of the Parent / Guardian**
3. **Gender**
4. **Date of Birth**
5. **State of +2 study:** Fill the code according to the Appendix at the end of this book. Make sure that your state of +2 study is correct. This will have an impact on your admission at the time of Centralised Seat Allocation Process.
6. **Mobile Phone Number:** Ensure that you are entering the number for all future communication.
7. **Category** – Preference is given at the time of seat allotment, if you belong to SC/ST community.
8. **City Choices** – Fill the choices carefully, based on the Appendix at the end. This will decide your centre to attend AEEE 2022 in CBT mode.

EXAMINATION CITIES – CENTRES / TOWNS FOR AEEE 2022

The names of the cities where CBT Examinations will be conducted is listed in **Appendix-I**. Choose the city listed in the online application to write the examination. A candidate appearing for CBT should submit three preferences from the list of cities in Appendix – I. Examination will be conducted in a centre in these cities, provided only if there are enough candidates. The preferences submitted by the candidate are only indicative and a guide to the University for deciding the number of cities & centres. 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 preference of a candidate, 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 appendix. If any city in the list is cancelled due to very less registrations, the candidates who have opted for that city will be allotted another city nearest to their preference and the same will be informed to the candidates by email.

REQUESTS FOR CHANGE OF EXAMINATION CITY/ TOWN

Normally, 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.

ABOUT AEEE 2022–SYLLABUS, PATTERN AND EVALUATION

SYLLABUS:

- The syllabus consists of four sections: Physics, Chemistry, Mathematics and English. Board syllabus is followed for AEEE 2022. **The syllabus for AEEE 2022 is appended in Appendix – III**
- The questions are based on the syllabus in Class 11th & Class 12th. The pattern of examination paper for AEEE – 2022 is given in the website (amrita.edu/btech).

- All the questions are of **Multiple-Choice type** and will have four options as possible answers.
- **3 (Three) marks** are awarded for each correct answer and -1(**negative one**) for each wrong answer.
- Candidates can choose the most appropriate answer for each question in the Computer Based Test (CBT) mode. Answers marked can be changed later, before the final submission of all the answers.
- Candidates can **practice the test online** through the link published in amrita.edu/btech

NUMBER OF QUESTIONS AND MARK DISTRIBUTION:

Subject	No. of Questions	Marks (3)
Mathematics	40	120
Physics	30	90
Chemistry	25	75
English	05	15
Total	100	300

Use of Calculator and Communication Aids

Use of electronic devices like mobile phones, calculators etc. are **NOT PERMITTED** for AEEE 2022. Materials like log table, book, notebook, etc. should **NOT** be brought into the examination hall for CBT.

SLOT BOOKING FOR AEEE 2022:

Candidates registered for Computer Based Test shall select **“DATE AND TIME SLOT”** of their choice, SUBJECT TO AVAILABILITY, by visiting the University website prior to the last date. This process is called **“SLOT BOOKING.”** Test Centre, Number of days and Number of operating slots in a day will be finalised based on the number of candidates for a particular city. The allotment of date / slot will be on first come first serve basis. If a candidate does not exercise his / her option, he/she shall be assigned a date/ slot as per the availability of the same. To Book Exam Date and Slot, registered candidates need to click the slot booking link provided in the University webpage amrita.edu/btech and follow the instructions given below:

COMPUTER BASED TEST AT CENTRES (CBT)

- a) Candidates can login using their Application Number and Date-of-Birth. In case of any difficulty logging in, open a ticket in the online query management in the application portal.
- b) After logging in, the candidates can select the test date and test slots based on the availability. To choose the date, click on the available date and click continue button. In the next screen, candidates will be prompted to select test slot based on its availability status.
- c) Since other candidates are also simultaneously using the same slot booking portal, sometimes the status presented may change by the time the candidate finishes his/her selection and the particular slot chosen by the candidate may not be available. In such case, the candidate will be prompted to choose another date and slot. To change the test date, click on Change Test Date button. Candidates are advised to check selection of Test

Centre, Date and Time before confirmation. Click “Confirm Slot” button to confirm booking.

- d) A slot once booked cannot be changed under any circumstances. Requests for change of test centers also will not be entertained. The address of the examination centre for a candidate will be mentioned in the Admit Card, which can be downloaded.

ADMIT CARD DOWNLOAD

Admit Card is issued provisionally to the candidate to attend the examination. Admit Card to write the examination is generated only to those eligible candidates who have submitted their application form complete in all respects.

Admit cards to attend AEEE 2022 shall be downloaded from the website by logging into the registered account using the registered Email ID / Application Number and Date of Birth. Intimation in this regard will be sent by SMS and email.

1. Admit Card will not be sent by post. Visit “<https://amrita.edu/btech>” to see the link to download the Admit Card. The Admit Card will contain details like the Name and Registration Number of the candidate, Date of Exam, Address of the Exam Centre allotted etc.
2. After downloading the admit card, ensure that the data is printed as per the application form submitted by you. In case of any discrepancy, open a ticket in the online query management system (amrita.edu/btech) for a faster resolution.
3. Admit Card is an important document and must be kept safe till the completion of admission procedure.

Note: Request from a candidate for change of city allotted to him/her will NOT be entertained under any circumstances for CBT. Candidate will not be permitted to appear for the CBT entrance examination without a valid Admit Card. In the examination hall, candidate should produce his/her Admit Card when demanded by the invigilator.

AEEE 2022 GUIDELINES - COMPUTER BASED TEST (CBT)

A sample/mock test is available on our website, amrita.edu/btech for practice purpose and to give the candidate an awareness of the Computer Based Test (CBT). The examination rooms / hall for CBT will be opened one hour before the commencement of the test. The candidates should take their seats in the examination hall 30 minutes prior to the commencement of the examination. If the candidates do not report in time, they are likely to miss some of the general instructions to be announced in the examination hall. A seat indicating the roll number is allocated to each candidate. Candidate should find out and occupy only their allotted seat. Any candidate found to have changed room or the seat on his/her own other than allotted, his/her candidature shall be cancelled, and no plea would be accepted for it. The candidate must show, on demand, the Admit Card for admission in the examination room/hall. The test will start exactly at the time mentioned in the Admit Card. During the examination time, the invigilator will check Admit Card of the candidate to satisfy himself/herself about the identity of each candidate.

CODE OF CONDUCT

The candidates are governed by all Rules and Regulations of the university regarding their conduct in the Examination Hall. All cases of unfair means will be dealt with as per University rules. Candidates shall maintain perfect silence and attend to their question paper only. Any conversation or gesture or disturbance in the Examination Room / Hall 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.

Admission into B.Tech for such candidates will be allowed only through JEE Mains 2022 score.

AEEE 2022 RESULT

Result will be released for all the candidates who have appeared in AEEE 2022 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 access their result by entering the login details in our admission portal.

TERMS AND CONDITIONS FOR AWARD AND RENEWAL OF SCHOLARSHIP FEES:

Scholarship Fees, i.e. Slabs 1 to 3 is allotted for the Academic Year **2022-2023 ONLY**. Renewal of scholarship Fees for subsequent years is subject to meeting the following conditions:

- 1. Consistent Academic performance by securing a Cumulative Grade Point Average (CGPA) of**
 - i. 8.0 and above in the case of Scholarship Slab 1 at the end of each academic year
 - ii. 7.5 and above in the case of Scholarship Slab 2 at the end of each academic year
 - iii. 7.0 and above in the case of Scholarship Slab 3 at the end of each academic year
- 2. No disciplinary action during the period of study in the University.**
- 3. Clearing each semester without any arrear**

Failing to meet the aforesaid conditions 1,2 and 3, the candidate will be required to pay higher fees in the subsequent years.

- If Slab 1 Student maintains CGPA 8.0 and above, the same fees slab will continue. If his/her CGPA is between 7.5 and 8.0, he/she will pay Slab 2 fees in the subsequent year. If his/her CGPA is between 7.0 and 7.5, he/she will pay Slab 3 fees in the subsequent year. If CGPA is below 7.0, the candidate will be required to pay slab 4 fees in the subsequent year.
- In the event a student moves to higher fee slab due to not meeting conditions 1, 2 and 3 above, the student will not be able to move back to the old slab even if his/her CGPA improves in **further** subsequent years.

ANNUAL FEE STRUCTURE

B.Tech Fee Structure 2022 (Annual)

		Amritapuri		Bengaluru		Coimbatore		Chennai	
		Seat %	Fees	Seat %	Fees	Seat %	Fees	Seat %	Fees
Fee Category - 01		AIE, CSE, CYS*		AIE, CSE		AIE, CSE, CYS		AIE, CSE, CYS	
Scholarship Fees	1	10	1,25,000	10	1,25,000	10	1,25,000	10	1,00,000
Scholarship Fees	2	15	2,00,000	15	2,00,000	15	2,25,000	15	1,75,000
Scholarship Fees	3	15	2,75,000	15	2,75,000	15	3,00,000	15	2,25,000
Scholarship Fees	4	45	3,25,000	45	3,25,000	45	3,50,000	45	2,75,000
Regular Fees (Non-Scholarship category)	5	15	4,25,000	15	4,25,000	15	4,50,000	15	3,50,000
Fee Category - 02		EAC, ECE, ELC, ARE		EAC, ECE		ECE, CCE, MEE, ELC, EEE, ARE, AEE		ECE, CCE	
Scholarship Fees	1	10	1,00,000	10	1,00,000	10	1,25,000	10	1,00,000
Scholarship Fees	2	15	1,50,000	15	1,75,000	15	2,10,000	15	1,50,000
Scholarship Fees	3	15	1,75,000	15	2,25,000	15	2,60,000	15	2,00,000
Scholarship Fees	4	45	2,50,000	45	2,60,000	45	3,00,000	45	2,25,000
Regular Fees (Non-Scholarship category)	5	15	3,00,000	15	3,50,000	15	4,00,000	15	3,00,000
Fee Category - 03		EEE, MEE		MEE, EEE		CIE, CHE		MEE, RAI*	
Scholarship Fees	1	15	1,00,000	15	1,00,000	15	1,25,000	15	1,00,000
Scholarship Fees	2	25	1,50,000	25	1,50,000	25	1,75,000	25	1,50,000
Scholarship Fees	3	25	1,75,000	25	1,75,000	25	2,00,000	25	1,75,000
Scholarship Fees	4	20	2,00,000	20	2,00,000	20	2,50,000	20	2,00,000
Regular Fees (Non-Scholarship category)	5	15	2,50,000	15	2,50,000	15	3,00,000	15	2,50,000
College Caution Deposit		10000		10000		10000		10000	

* Subject to AICTE Approval

B.Tech Branches
Aerospace Engineering (AEE)
Automation & Robotics Engineering (ARE)
Civil Engineering (CIE)
Chemical Engineering (CHE)
Computer Science & Engineering (CSE)
Computer Science & Engineering (Artificial Intelligence (AIE)
Computer Science & Engineering (Cyber Security - CYS)
Computer & Communication Engineering (CCE)
Electronics & Communication Engineering (ECE)
Electrical & Computer Engineering (ELC)
Electrical & Electronics Engineering (EEE)
Electronics & Computer Engineering (EAC)
Mechanical Engineering (MEE)

* Subject to AICTE Approval

WITHDRAWAL / CANCELLATION OF ADMISSION – POLICIES & RULES

Procedures and rules on the withdrawal from B.Tech admission process is published prior to the counseling process. Candidates are requested to visit website amrita.edu/btech for all the admission updates.

REFUND POLICY

- ❖ Refund will be made as per the norms of University Grants Commission (UGC)/AICTE.
- ❖ Refund will be made only after submission of fee receipt, Provisional Seat Allotment Order [received by email] & no dues certificate. The refund will be made through account transfer to the account number mentioned in the withdrawal request. Hence, the correct bank account details may be provided in the withdrawal request.
- ❖ Refund will be effected 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 admissions covered by the Rules and Regulations contained herein, decision of the **Director of Admissions, Amrita School of Engineering, 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.

Note: University reserves the right to change the admission related matters.

ALL CORRESPONDENCE RELATED TO B.TECH ADMISSIONS SHOULD BE ADDRESSES TO:

Directorate Of Admissions & Academic Outreach, Amrita Vishwa Vidyapeetham, Amritanagar (PO), Ettimadai, Coimbatore – 641112, Tamilnadu.
 Phone: 044 - 46276066 [Toll Free]
 Email : btech@amrita.edu.

APPENDIX I: EXAMINATION CITIES FOR COMPUTER BASED TEST (CBT)

Sl. No.	State	Exam City Name	Exam City Code
1	ANDHRA PRADESH	ANANTAPUR	1001
2		CHITTOOR (TIRUPATI)	1002
3		EAST GODAVARI	1003
4		GUNTUR	1004
5		KRISHNA	1005
6		KURNOOL	1006
7		PRAKASAM	1007
8		SPSR NELLORE	1008
9		SRIKAKULAM	1009
10		VISAKHAPATNAM	1010
11		VIZIANAGARAM	1011
12		WEST GODAVARI	1012
13		Y.S.R.	1013
14		VIJAYAWADA	1014
15	ASSAM	KAMRUP METRO	1201
16	BIHAR	BHAGALPUR	1301
17		GAYA	1302
18		MUZZAFARPUR	1303
19		PATNA	1304
20		PURBI CHAMPARAN	1305
21	CHHATTISGARH	BILASPUR	1401
22		DURG	1402
23		RAIPUR	1403
24	GOA	GOA	1501
25	GUJARAT	AHMEDABAD	1601
26		BHARUCH	1602
27		GANDHINAGAR	1603
28		JAMNAGAR	1604
29		RAJKOT	1605
30		SURAT	1606
31		VADODARA	1607
32		VALSAD	1608
33	HARYANA	FARIDABAD	1701
34		GURUGRAM	1702
35		REWARI	1703
36		SONIPAT	1704
37		YAMUNANAGAR	1705

Sl. No.	State	Exam City Name	Exam City Code
38	HIMACHAL PRADESH	SHIMLA	1801
39	JAMMU AND KASHMIR	JAMMU	1901
40	JHARKHAND	RANCHI	2001
41	KARNATAKA	BALLARI	2101
42		BENGALURU RURAL	2102
43		BENGALURU URBAN	2103
44		DAKSHIN KANNAD	2104
45		DAVANGERE	2105
46		MYSURU	2106
47	KERALA & MAHE	ALAPUZHA	2201
48		ERNAKULAM	2202
49		KANNUR	2203
50		KOLLAM	2204
51		KOTTAYAM	2205
52		KOZHIKODE	2206
53		MALAPPURAM	2207
54		PALAKKAD	2208
55		PATHANAMTHITTA	2209
56		THIRUVANANTHAPURAM	2210
57	THRISSUR	2211	
58	MADHYA PRADESH	BHOPAL	2301
59		GWALIOR	2302
60		INDORE	2303
61		JABALPUR	2304
62	MAHARASHTRA	AURANGABAD	2401
63		CHANDRAPUR	2402
64		JALGAON	2403
65		KOLHAPUR	2404
66		MUMBAI	2405
67		MUMBAI SUBURBAN	2406
68		NAGPUR	2407
69		NASHIK	2408
70		PUNE	2409
71		RAIGAD	2410
72	THANE	2411	
73	MANIPUR	IMPHAL	2501
74	MEGHALAYA	SHILLONG	2601
75	ODISHA	CUTTACK	2901
76		GANJAM	2902
77		KHORDHA	2903
78		RAYAGADA	2904

Sl. No.	State	Exam City Name	Exam City Code
79	PUNJAB	JALANDHAR	3001
80		LUDHIANA	3002
81		S.A.S. NAGAR	3003
82	RAJASTHAN	AJMER	3101
83		ALWAR	3102
84		BHARATPUR	3103
85		BHILWARA	3104
86		BIKANER	3105
87		CHITTORGARH	3106
88		GANGANAGAR	3107
89		JAIPUR	3108
90		JODHPUR	3109
91		KOTA	3110
92		SIKAR	3111
93		UDAIPUR	3112
94	TAMIL NADU & PUDUCHERRY (UT)	CHENGALPATTU	3301
95		CHENNAI	3302
96		COIMBATORE	3303
97		CUDDALORE	3304
98		DINDIGUL	3305
99		ERODE	3306
100		KANCHIPURAM	3307
101		KANYAKUMARI	3308
102		KARUR	3309
103		KRISHNAGIRI	3310
104		MADURAI	3311
105		NAMAKKAL	3312
106		PONDICHERY	3313
107		SALEM	3314
108		THANJAVUR	3315
109		THE NILGIRIS	3316
110		THENI	3317
111		THIRUVALLUR	3318
112		TIRUCHIRAPALLI	3319
113		TIRUNELVELI	3320
114	TIRUPPUR	3321	
115	TUTICORIN	3322	
116	VELLORE	3323	
117	VILLUPURAM	3324	
118	VIRUDHUNAGAR	3325	

Sl. No.	State	Exam City Name	Exam City Code
119	TELANGANA	BHADRADRI	3401
120		HYDERABAD	3402
121		KARIMNAGAR	3403
122		KHAMMAM	3404
123		MEDCHAL	3405
124		MEHBUBNAGAR	3406
125		NALGONDA	3407
126		NIZAMABAD	3408
127		RANGA REDDY	3409
128		SANGAREDDY	3410
129		SURYAPET	3411
130		WARANGAL	3412
131		WARANGAL URBAN	3413
132		UTTAR PRADESH	AGRA
133	ALLAHABAD		3602
134	GAUTAM BUDDHA NAGAR		3603
135	GHAZIABAD		3604
136	KANPUR NAGAR		3605
137	LUCKNOW		3606
138	MEERUT		3607
139	VARANASI		3608
140	UTTARAKHAND	DEHRADUN	3701
141	WEST BENGAL	24 PARGANAS SOUTH	3801
142		KOLKATA	3802
143	ANDAMAN AND NICOBAR ISLANDS	ANDAMAN & NICOBAR ISLANDS	3901
144	CHANDIGARH	CHANDIGARH	4001
145	DELHI	DELHI	4301

APPENDIX II: (Applicable only for candidates applying using OMR)

LIST OF STATES / UNION TERRITORIES

State	Code
Andhra Pradesh	10
Arunachal Pradesh	11
Assam	12
Bihar	13
Chhattisgarh	14
Goa	15
Gujarat	16
Haryana	17
Himachal Pradesh	18
Jammu and Kashmir	19
Jharkhand	20
Karnataka	21
Kerala & Mahe	22
Madhya Pradesh	23
Maharashtra	24
Manipur	25
Meghalaya	26
Mizoram	27
Nagaland	28
Odisha	29
Punjab	30
Rajasthan	31
Sikkim	32
Tamil Nadu & Puducherry (UT)	33
Telangana	34
Tripura	35
Uttar Pradesh	36
Uttarakhand	37
West Bengal	38
UNION TERRITORIES	
Andaman and Nicobar Islands	39
Chandigarh	40
Dadra and Nagar Haveli	41
Daman and Diu	42
Delhi	43
Lakshadweep	44
Countries other than India	50

APPENDIX III : SYLLABUS FOR AEEE 2022

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 $\sum n$, $\sum n^2$,

$\sum n^3$.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 Lagrange'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; Bernoulli'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 C_p and C_v for gases; Newton's law of cooling, black body, Kirchoff's law, Stefan'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, Kirchoff'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.

Magnetostatics: 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 conductances, 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 properties 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.



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B. HARSHA VARDHAN
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