



"Our educational system needs to give equal importance to the intellect and the heart."
— Mata Amritanandamayi

Information HandBook 2026

Admission for UG Programmes

- Life Sciences
- Agriculture
- Allied Health Sciences
- Nursing
- Pharmacy

Through AEEL and / or +2 / HSC Marks

Campuses

- Amritapuri
- Coimbatore
- Faridabad
- Kochi
- Mysuru

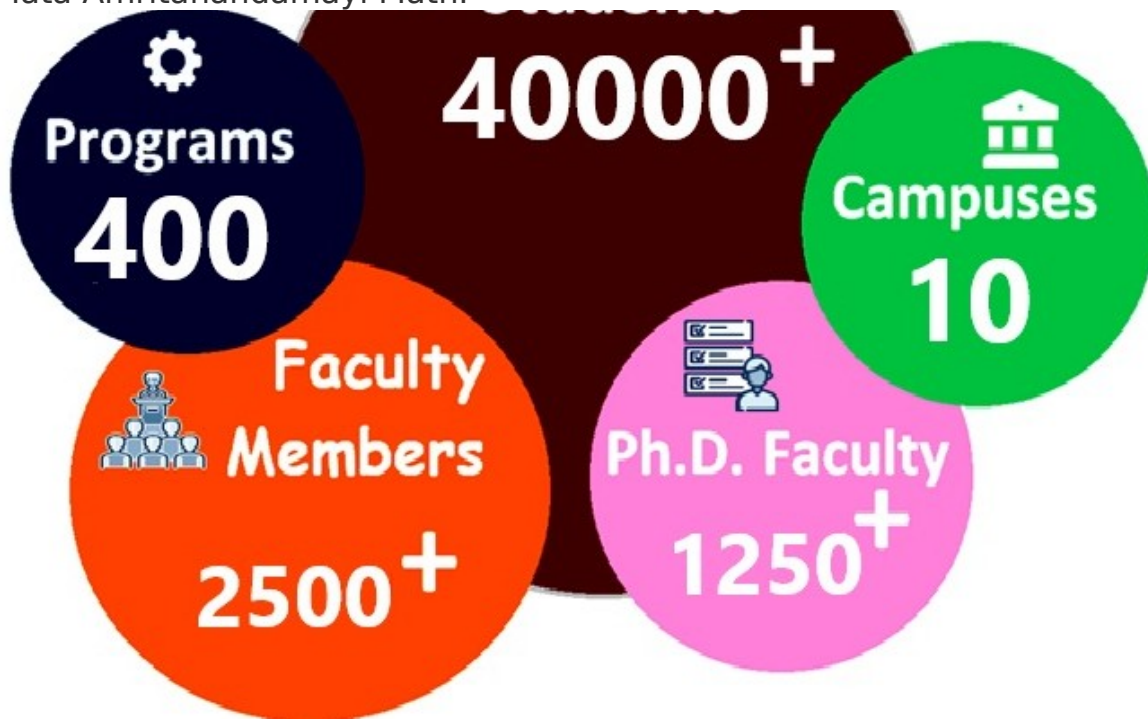
<https://www.amrita.edu/admissions/aeel/>

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About AMRITA VISHWA VIDYAPEETHAM

Amrita Vishwa Vidyapeetham Deemed to be University 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 8th best among all universities in India in 2025 **National Institutional Ranking Framework** (NIRF) released by MHRD, Govt. of India. Amrita is spread across **Ten campuses in six states of India - Andhra Pradesh, Haryana, Karnataka, Kerala, Tamil Nadu and Uttarakhand with the headquarters in Tamil Nadu at Ettimadai, Coimbatore.** 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 Deemed to be University is managed by the Mata Amritanandamayi Math.





AMARAVATI CAMPUS

Located near the banks of the Krishna River between natural getaways and places of heritage, Amaravati city is built around sustainability and liveability principles. We are building one of the most buoyant center of the research, education and technological advancement, in the all new greenfield capital city. With over 100 acres' campus, that will feature green lawns and the burgeoning trees, is well connected by road, rail and air to the IT and business hubs of the both Andhra Pradesh and Telangana states.



AMRITAPURI CAMPUS

The Amritapuri campus, nestled in the backdrop of the beautiful village of Vallikavu, provides warmth and serenity to its visitors and 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 CAMPUS

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 CAMPUS

The Chennai Campus of Amrita Vishwa Vidyapeetham is spread over 54,834 sq.m. of land and a total built up area of 24,956.435 sq m. 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.



COIMBATORE CAMPUS (HEADQUARTERS)

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.



FARIDABAD CAMPUS

A land that has witnessed the historical prominence of ultra-modern facilities in India. A place where science, technology, and research merge to embrace good health across a 130-acre sprawling health city campus. It is India's largest multi-specialty hospital and extend beyond teaching and learning to include research, which is at the forefront of innovation and discovery. This multidisciplinary institution will impart knowledge to a vibrant community of more than 20,000 students with 800+ Ph.D. faculty and over 250 programs. The medical college with a built-up area of 5.2 lakh square feet with a completely dedicated research block looks forward to the advancements and innovations of every student.



KOCHI CAMPUS

The expansive and serene Brahmasthanam Temple Complex at Edappally, Kochi, by the NH-17 is home to Amrita Viswa Vidyapeetham-Kochi Campus, which is candidly achieving fame and glory. The Kochi campus of Amrita Vishwa Vidyapeetham houses schools of Business, Medicine, Dentistry, Nursing, Pharmacy, Nano Sciences and Allied Health Sciences in proximity.



MYSURU CAMPUS

One of the eight campuses of Amrita Vishwa Vidyapeetham established under Section 3 of the UGC Act 1956 is a multi campus institution and is accredited by NAAC with 'A++' Grade. Amrita Vishwa Vidyapeetham, Mysuru Campus located in a peaceful environment, away from the hustle & bustle of city, yet well connected by road, provides an ambience for learning, combining state-of-the-art facilities with a serene ashram and temple atmosphere



NAGERCOIL CAMPUS

Amrita Institutions Campus, Nagercoil, in a sprawling lush green area, which is situated about 5 Kilometres north of Nagercoil, the headquarter of Kanyakumari District. Nagercoil Railway Station is 7 km from the campus. This campus is well connected by rail and road. Thiruvananthapuram, the capital of Kerala, is 75 Kilometers from the campus. The atmosphere is conducive to calm and peaceful academic pursuit.

AMRITA Campuses:



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.

Admission Procedure:

Admission to the following **UG programmes** offered at our **Amritapuri, Coimbatore, Faridabad, Mysuru and Kochi campuses** of Amrita Vishwa Vidyapeetham Deemed to be University for the Academic Year (AY) 2026-2027 is managed by Directorate of Admissions and is through the **Amrita Entrance Examination - Life Sciences, Agriculture, Allied Health Sciences, Nursing and Pharmacy (AEEL) 2026** conducted by the University and for some through the HSC mode.

Note: Those who appear for +2 or Equivalent examination in March/April 2026 and expect to secure minimum marks (**as specified**), may also apply

Campuses and Courses Offered:

| **Amritapuri (AMR)** | **Coimbatore (CBE)** | **Faridabad (FBD)** | **MYSURU (MYR)** | **Kochi (KOH)** |

Admission to Programmes Through AEEL 2026	AM P	CB E	FB D	MYR	KO H
B.Sc (Honours) Agricultural Sciences		✓			
B.Sc Nursing			✓		✓
Allied Health Sciences					
Bachelor in Audiology & Speech Language Pathology (B.ASLP)					✓
Bachelor of Anaesthesia and Operation Theatre Technology (B.AOTT)			✓		✓
B.Sc Blood Bank Technology (BBT)			✓		

B.Sc Cardiac Perfusion Technology (CPT)			✓		✓
B.Sc Cardio Vascular Technology (CVT)			✓		✓
B.Sc Diabetes Sciences (DBS)					✓
Bachelor of Dialysis Therapy Technology (B.DTT)			✓		✓
B.Sc Echo Cardiography Technology (ECT)			✓		✓
Bachelor of Emergency Medical Technologist (B.EMT)			✓		✓
B.Sc Intensive Care Technology (ICT)			✓		✓
Bachelor of Medical Laboratory Science (B.MLS)			✓		✓
Bachelor of Medical Radiology & Imaging Technology (B.MRIT)			✓		✓
B.Sc Nutrition			✓		
B.Sc Neuro Electro Physiology (NEP)			✓		✓
B.Sc Nuclear Medicine Technology (NMT)					✓
Bachelor of Optometry (B.Optom)			✓		✓
Bachelor of Physician Associate (B.PA)			✓		✓
Bachelor of Radiation Therapy Technology (B.RTT)			✓		✓
Bachelor of Respiratory Technology (B.RT)			✓		✓
Admission to Programmes (Through AEEL 2026 and +2/HSC Marks)					
B.Sc (Honours) Food Science and Nutrition (with exit option after 3 years)*		✓			
B.Pharm (Regular)					✓
Pharm D					✓
Admission to Programmes (Through +2/HSC Marks)					
B.Sc Biotechnology	✓				
B.Sc Microbiology	✓				
B.Sc Hons. In Molecular Medicine					✓
Diploma in Dental Mechanics					✓

Amrita Entrance Examination - Life Sciences, Agriculture, Allied Health Sciences, Nursing and Pharmacy

(AEEL) 2026

is conducted for the students passing out their +2 with Physics, Chemistry and Biology as core subjects. Candidates desiring to join the programmes with Physics, Chemistry, Biology as the eligibility are required to attend this examination to secure admission to the aforesaid programmes.

AEEL 2026 will be conducted **ONLY** in **Computer Based Test** (CBT) mode in various centres at selected cities. Please be in touch with the admission website for latest updates.

Subjects : **Physics, Chemistry, Biology, English**

Duration of : **120 Minutes (2 Hrs.)**

No. of Questions : **80**

Allocation of Seat for UG Programmes- Life Sciences, Agriculture, Allied Health Sciences, Nursing & Pharmacy:

Admission to Programmes only through AEEL 2026	100 % of the seat allotment
Admission to Programmes through AEEL 2026 and Through +2/HSC Mode	50% of the seat allotment through AEEL 2026 and 50% through +2/HSC Mode Note : The above percentage is only a guideline and will be decided at the time of centralized seat allotment process.
Admission to Programmes only through +2/HSC Mode	50% of the Seat allotment

Computer Based Test (CBT) Centres: Refer **APPENDIX II** for exam centres in selected cities.

Examination Dates (Tentative):

Amrita Vishwa Vidyapeetham is planning to conduct AEEL 2026 as follows:

Date of Examination (Tentative)	Slots per day	Timing
9th and 10th May, 2026	2 Slots	10.00 AM to 12.00 Noon 02.00 PM to 04.00 PM

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

Important Note:

- (i) The number of days/slots of the Examination will be changed depending on the strength of the candidates.
- (ii) Dates may get deferred -**
 - a) Based on the government notificationsIn 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 AEEL 2026;
 - b) Because of any other reason
- (iii) Candidates appearing for AEEL 2026 will have only one chance to appear for the examination.
- (iv) University holds the right to defer the mode / dates /slots of the examinations as per the situation, whatsoever, prevailing at that time.
- (v) Candidates are advised to keep in touch with our website regularly for the latest updates.

ELIGIBILITY CRITERIA:

B.Sc (Honours) Agricultural Sciences	4 Years	A pass in 10 + 2 (Class XII) or its equivalent examination with minimum 60% aggregate of marks in Biology, Physics and Chemistry and with not less than 55% in each of Physics, Chemistry and Biology.
B.Sc Nursing	4 Years	Must have passed 12th in the first attempt and with a minimum of 60% in English and 60% in Physics, Chemistry and Biology taken together from any State Higher Secondary Board or equivalent
B.Sc (Honours) Food Science and Nutrition (with exit option after 3 years*)	B.Sc Degree - 3 Years B.Sc Honours - 4 Years	A pass in +2/HSC or equivalent with minimum aggregate of 50% marks in Physics, Chemistry and Mathematics/Biology
B.Pharm	4 Years	A Pass in Plus Two with an aggregate of 70% marks in Physics, Chemistry and Biology.
Pharm D	6 Years	Students who have studied Mathematics in place of Biology are also eligible.

Bachelor in Audiology & Speech Language Pathology (B.ASLP)	3 Years + 10 Months Internship
Bachelor of Anaesthesia and Operation Theatre Technology (B.AOTT)	3 + 1 Year Internship
B.Sc Blood Bank Technology	3 + 1 Year Internship
B.Sc Cardiac Perfusion Technology (CPT)	3 + 1 Year Internship
B.Sc Cardio Vascular Technology (CVT)	3 + 1 Year Internship
B.Sc Diabetes Sciences (DBS)	3 + 1 Year Internship
Bachelor of Dialysis Therapy Technology (B.DTT)	3 + 1 Year Internship
B.Sc Echo Cardiography Technology (ECT)	3 + 1 Year Internship
Bachelor of Emergency Medical Technologist (B.EMT)	3 + 1 Year Internship
B.Sc Intensive Care Technology (ICT)	3 + 1 Year Internship
B.Sc Medical Radiology & Imaging Technology	4 Years
B.Sc Nutrition	3 + 1 Year Internship
B.Sc Nuclear Medicine Technology (NMT)	4 Years
B.Sc Neuro Electro Physiology (NEP)	3 + 1 Year Internship
Bachelor of Optometry (Optom)	3 + 1 Year Internship
Bachelor of Physician Associate (B.PA)	3 + 1 Year Internship
Bachelor of Radiation Therapy Technology (B.RTT)	3 + 1 Year Internship
Bachelor of Respiratory Technology (B.RT)	3 + 1 Year Internship
Bachelor of Medical Laboratory Science	4 Years

Pass in Plus Two with Physics, Chemistry, Biology as core subjects.

Cost of Application for Admission through AEEL 2026 : INR 550 + an additional INR 550 for other UG programmes

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: applyug.amrita.edu

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** (Available courses to be selected)
- 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 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: applyug.amrita.edu

Examination Centres - Cities / Towns

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.

Syllabus. Patter, and Evaluation

- The questions are based on the syllabus in Class 11th & Class 12th .
- **The syllabus for AEEL 2026 is appended in Appendix - II.**
- The pattern of examination paper for AEEL 2026 is given in the website: applyug.amrita.edu
- All the questions are of **Multiple-Choice type** and will have four options as possible answers.
- 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.
- **3 (Three) marks** are awarded for each correct answer and - 1(**negative one**) for each wrong answer.

Number of Questions and Mark Distribution for AEEL 2026:

Subject	No. of Questions	Marks (3)
Physics	25	75
Chemistry	25	75
Biology	25	75
English	05	15
TOTAL	80	240

Slot Booking for AEEL 2026:

Candidates registered for Computer Based Test of the Entrance Examination 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 applyug.amrita.edu and follow the instructions given below:

- 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 Entrance 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 the AEEL 2026 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 applyug.amrita.edu 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 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. Candidate will not be permitted to appear for the entrance examination without a valid Admit Card. In the examination hall, candidate should produce his/her Admit Card when demanded by the invigilator.

Guidelines - Computer Based Test (CBT)

- A sample/mock test is available on our website 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 on the respective dates.
- 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 on 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. Candidates 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.

- Use of electronic devices like mobile phones, calculators, materials like log table, book, notebook, etc. should **NOT** be brought into the examination hall.
- 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 misbehaviour.
- 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.

AEEL 2026 Result:

Result will be released for all the candidates who have appeared in AMRITA ENTRANCE EXAMINATION - Life Sciences, Agriculture & Allied Health Sciences (AEEL) 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 access their result by entering the login details in our admission portal.

Terms and Conditions for Award and Renewal of Scholarship Fees:

Refer our website : applyug.amrita.edu

Fee Structure:

Refer our website : applyug.amrita.edu

Campus-wise Contact Details:

Coimbatore

PH: +91 9344914202, +91 9443375551

Email: doaugcbe@cb.amrita.edu

Amritapuri

PH: +91 9072339640, +91 9544549090

Email: ugadmissions@amrita.edu

Faridabad

PH: +91 8595523200

Email: admissions@dl.amrita.edu

Kochi - Allied Health Science

PH: 0484-285-8383 / 8166, 7994999585

Email: ugadmissions@aims.amrita.edu

Kochi - UG Programs

WhatsApp: +91 8304004400

Email: admission@kh.amrita.edu

+91 9048377711, 9048377722

+91 4847102000, 7102001

Mysuru

Mobile: +91 9945531123

Email: admissions@my.amrita.edu

Withdrawal /Cancellation of Admission- Policies & Rules

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

Refund Policy

- ❖ Refund will be made as per the norms of University Grants Commission (UGC)/respective Statutory Council.
- ❖ 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 & Academic Outreach, 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 Admissions should be addressed to :

Directorate of Admissions,
Amrita Vishwa Vidyapeetham,
Amritanagar (PO), Ettimadai,
Coimbatore - 641112,
Tamilnadu.

Mobile: **+91 9344914202,**
+91 9443375551

Email : ugadmissions@amrita.edu
aeel@amrita.edu

APPENDIX - I : AEEL 2026 Cities List:

Sl. No.	State	District
1	KERALA	ALAPPUZHA
2	KERALA	ERNAKULAM
3	KERALA	KANNUR
4	KERALA	KASARAGOD
5	KERALA	KOLLAM
6	KERALA	KOTTAYAM
7	KERALA	KOZHIKODE
8	KERALA	MALAPPURAM
9	KERALA	PALAKKAD
10	KERALA	PATHANAMTHITTA
11	KERALA	THIRUVANANTHAPURAM
12	KERALA	THRISSUR
13	TAMILNADU	CHENNAI
14	TAMILNADU	COIMBATORE
15	TAMILNADU	CUDDALORE
16	TAMILNADU	DINDIGUL
17	TAMILNADU	ERODE
18	TAMILNADU	HOSUR
19	TAMILNADU	KARUR
20	TAMILNADU	MADURAI
21	TAMILNADU	NAGERCOIL
22	TAMILNADU	NAMAKKAL
23	TAMILNADU	OOTY
24	TAMILNADU	PONDICHERRY
25	TAMILNADU	SALEM
26	TAMILNADU	THANJAVUR
27	TAMILNADU	THENI
28	TAMILNADU	THIRUVALLUR

S.L No	State	District
29	TAMILNADU	TIRUCHIRAPPALLI
30	TAMILNADU	TIRUNELVELI
31	TAMILNADU	TIRUPPUR
32	TAMILNADU	THOOTHUKKUDI
33	TAMILNADU	VELLORE
34	TAMILNADU	VIRUDHUNAGAR
35	KARNATAKA	BENGALURU
36	ANDHRA PRADESH	ANANTAPUR
37	ANDHRA PRADESH	EAST GODAVARI
38	ANDHRA PRADESH	GUNTUR
39	ANDHRA PRADESH	KRISHNA
40	ANDHRA PRADESH	SPSR NELLORE
41	ANDHRA PRADESH	CHITTOOR (TIRUPATI)
42	ANDHRA PRADESH	VISAKHAPATANAM
43	TELANGANA	HYDERABAD
44	TELANGANA	RANGAREDDI
45	MAHARASHTRA	PUNE
46	DELHI	DELHI
47	BIHAR	PATNA
48	CHHATTISGARH	RAIPUR
49	GUJARAT	AHMEDABAD
50	HARYANA	FARIDABAD
51	HARYANA	GURUGRAM
52	JHARKHAND	RANCHI
53	MADHYA PRADESH	INDORE
54	RAJASTHAN	KOTA
55	UTTAR PRADESH	LUCKNOW
56	WEST BENGAL	KOLKATA
57	ANDAMAN AND NICOBAR ISLANDS	NICOBAR

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: 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. 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 7: 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 8: 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 9: 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 10: 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 - 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 5 - 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 6 - Coordination compounds:

Terminology in coordination- isomerism, Werner, VBT, CFT theories - Biocoordination compounds.

Unit 7 - 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 8 - Colligative properties:

Lowering of vapour pressure, Depression of freezing point, Elevation in boiling point, Osmotic pressure, abnormality - dissociation and association

Unit 9 - 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 10 -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 11 - Chemical and Ionic Equilibrium:

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 12 - 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 13 - 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 14 - Hydrocarbons & Polymers:

IUPAC nomenclature, alkanes -alkynes - aromatic hydrocarbons nomenclature, preparation, physical and chemical properties uses. Polymerization - types, molecular mass, biodegradable and commercial polymers.

Unit 15 - 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 16 - 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 17 - 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 18 - 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.

BIOLOGY

Unit 1: Diversity of Living Organisms The Living World:

Biodiversity; Need for classification; three domains of life; taxonomy and systematics; concept of species and taxonomical hierarchy; binomial nomenclature. Biological Classification: Five kingdom classification; Salient features and classification of Monera, Protista and Fungi into major groups; Lichens, Viruses and Viroids. Plant Kingdom: Classification of plants into major groups; Salient and distinguishing features and a few examples of Algae, Bryophyta, Pteridophyta, Gymnospermae Animal Kingdom: Salient features and classification of animals, non-chordates up to phyla level and chordates up to class level

Unit 2: Structural Organization in Animals and Plant

Morphology of Flowering Plants:

Morphology of different parts of flowering plants: root, stem, leaf, inflorescence, flower, fruit and seed. Description of family Solanaceae Anatomy of Flowering Plants: Anatomy and functions of tissue systems in dicots and monocots. Structural Organisation in Animals: Morphology, Anatomy and functions of different systems of frog.

Unit 3: Cell Structure and Function Cell-The Unit of Life:

Cell theory and cell as the basic unit of life, structure of prokaryotic and eukaryotic cells; Plant cell and animal cell; cell envelope; cell membrane, cell wall; cell organelles - structure and function; endomembrane system, endoplasmic reticulum, golgi bodies, lysosomes, vacuoles, mitochondria, ribosomes, plastids, microbodies; cytoskeleton, cilia, flagella, centrioles (ultrastructure and function); nucleus. Biomolecules: Chemical constituents of living cells: biomolecules, structure and function of proteins, carbohydrates, lipids, nucleic acids; Enzyme - types, properties, enzyme action. Cell Cycle and Cell Division: Cell cycle, mitosis, meiosis and their significance

Unit 4: Plant Physiology Photosynthesis in Higher Plants:

Photosynthesis as a means of autotrophic nutrition; site of photosynthesis, pigments involved in photosynthesis (elementary idea); photochemical and biosynthetic phases of photosynthesis; cyclic and non-cyclic photophosphorylation; chemiosmotic hypothesis; photorespiration; C₃ and C₄ pathways; factors affecting photosynthesis. Respiration in Plants: Exchange of gases; cellular respiration - glycolysis, fermentation (anaerobic), TCA cycle and electron transport system (aerobic); energy relations - number of ATP molecules generated; amphibolic pathways; respiratory quotient. Plant - Growth and Development: Seed germination; phases of plant growth and plant growth rate; conditions of growth;

differentiation, dedifferentiation and redifferentiation; sequence of developmental processes in a plant cell; growth regulators - auxin, gibberellin, cytokinin, ethylene, ABA;

Unit 5: Human Physiology Breathing and Exchange of Gases:

Respiratory organs in animals (recall only); Respiratory system in humans; mechanism of breathing and its regulation in humans - exchange of gases, transport of gases and regulation of respiration, respiratory volume; disorders related to respiration - asthma, emphysema, occupational respiratory disorders. Body Fluids and Circulation: Composition of blood, blood groups, coagulation of blood; composition of lymph and its function; human circulatory system - Structure of human heart and blood vessels; cardiac cycle, cardiac output, ECG; double circulation; regulation of cardiac activity; disorders of circulatory system - hypertension, coronary artery disease, angina pectoris, heart failure. Excretory Products and their Elimination: Modes of excretion - ammonotelism, ureotelism, uricotelism; human excretory system - structure and function; urine formation, osmoregulation; regulation of kidney function - renin - angiotensin, atrial natriuretic factor, ADH and diabetes insipidus; role of other organs in excretion; disorders - uremia, renal failure, renal calculi, nephritis; dialysis and artificial kidney, kidney transplant. Locomotion and Movement: Types of movement - ciliary, flagellar, muscular; skeletal muscle, contractile proteins and muscle contraction; skeletal system and its functions; joints; disorders of muscular and skeletal systems - myasthenia gravis, tetany, muscular dystrophy, arthritis, osteoporosis, gout. Neural Control and Coordination: Neuron and nerves; Nervous system in humans - central nervous system; peripheral nervous system and visceral nervous system; generation and conduction of nerve impulse Chemical Coordination and Integration: Endocrine glands and hormones; human endocrine system - hypothalamus, pituitary, pineal, thyroid, parathyroid, adrenal, pancreas, gonads; mechanism of hormone action (elementary idea); role of hormones as messengers and regulators, hypo - and hyperactivity and related disorders; dwarfism, acromegaly, cretinism, goiter, exophthalmic goitre, diabetes, Addison's disease. Note: Diseases related to all the human physiological systems to be taught in brief.

Unit 6: Reproduction Sexual Reproduction in Flowering Plants:

Flower structure; development of male and female gametophytes; pollination - types, agencies and examples; out breeding devices; pollen-pistil interaction; double fertilization; post fertilization events - development of endosperm and embryo, development of seed and formation of fruit; special modes apomixis, parthenocarpy, polyembryony; Significance of seed dispersal and fruit formation. Human Reproduction: Male and female reproductive systems; microscopic anatomy of testis and ovary; gametogenesis - spermatogenesis and oogenesis; menstrual cycle; fertilisation, embryo development upto blastocyst formation, implantation; pregnancy and placenta formation (elementary idea); parturition (elementary idea); lactation (elementary idea). Reproductive Health: Need for reproductive health and prevention of Sexually Transmitted

Diseases (STDs); birth control - need and methods, contraception and medical termination of pregnancy (MTP); amniocentesis; infertility and assisted reproductive technologies - IVF, ZIFT, GIFT (elementary idea for general awareness).

Unit 7: Genetics and Evolution Heredity and variation:

Mendelian inheritance; deviations from Mendelism - incomplete dominance, co-dominance, multiple alleles and inheritance of blood groups, pleiotropy; elementary idea of polygenic inheritance; chromosome theory of inheritance; chromosomes and genes; Sex determination - in humans, birds and honey bee; linkage and crossing over; sex linked inheritance - haemophilia, colour blindness; Mendelian disorders in humans - thalassemia; chromosomal disorders in humans; Down's syndrome, Turner's and Klinefelter's syndromes. Molecular Basis of Inheritance: Search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging; DNA replication; Central Dogma; transcription, genetic code, translation; gene expression and regulation - lac operon; Genome, Human and rice genome projects; DNA fingerprinting. Evolution: Origin of life; biological evolution and evidences for biological evolution (paleontology, comparative anatomy, embryology and molecular evidences); Darwin's contribution, modern synthetic theory of evolution; mechanism of evolution - variation (mutation and recombination) and natural selection with examples, types of natural selection; Gene flow and genetic drift; Hardy - Weinberg's principle; adaptive radiation; human evolution

Unit 8 Biology and Human Welfare: Human Health and Diseases:

Pathogens; parasites causing human diseases (malaria, dengue, chikungunya, filariasis, ascariasis, typhoid, pneumonia, common cold, amoebiasis, ring worm) and their control; Basic concepts of immunology - vaccines; cancer, HIV and AIDS; Adolescence - drug and alcohol abuse. Microbes in Human Welfare: Microbes in food processing, industrial production, sewage treatment, energy generation and microbes as bio-control agents and bio-fertilizers. Antibiotics; production and judicious use.

Unit 9: Biotechnology and its Applications Biotechnology - Principles and Processes:

Genetic Engineering (Recombinant DNA Technology). Biotechnology and its Applications: Application of biotechnology in health and agriculture: Human insulin and vaccine production, stem cell technology, gene therapy; genetically modified organisms - Bt crops; transgenic animals; biosafety issues, biopiracy and patents

Unit 10: Ecology and Environment Organisms and Populations:

Population interactions - mutualism, competition, predation, parasitism; population attributes - growth, birth rate and death rate, age distribution. (Topics excluded: Organism and its Environment, Major Abiotic Factors, Responses to Abiotic Factors, Adaptations) Ecosystem: Ecosystems Patterns, components; productivity and decomposition; energy flow; pyramids of number, biomass, energy (Topics excluded: Ecological Succession and Nutrient Cycles) Biodiversity and its Conservation: Biodiversity-Concept, patterns, importance; loss of biodiversity;

biodiversity conservation; hotspots, endangered organisms, extinction, Red Data Book, Sacred Groves, biosphere reserves, national parks, wildlife, sanctuaries and Ramsar sites.

ENGLISH

Articles, Synonyms, Antonyms, Preposition, verbs.

**The University reserves the right to modify the contents of this
Information handbook.**
