



School of  
Biotechnology



# STUDENT **HANDBOOK**



# Prayer

ॐ सहनाववतु सहनौ भुनक्तु ।  
सह वीर्यं करवावहै ।  
तेजस्वि नावधीतमस्तु ।  
मा विद्विषावहै ॥  
ॐ शान्तिः शान्तिः शान्तिः

May He protect us, may He nourish both you and me  
May both you and I be given the energy we need. May  
this study make us both illuminated.  
May we never hate each other.  
Om! Shanti! Shanti! Shanti!

ॐ असतो मा सद् गमय ।  
तमसो मा ज्योतिर्गमया ।  
मृत्योर्मा अमृतं गमया ॥  
ॐ शान्तिः शान्तिः शान्तिः

Oh God! Lead me from untruth to truth.  
Lead me from darkness to light.  
Lead me from death to immortality.  
Om! Shanti! Shanti! Shanti!

ॐ सर्वेषां स्वस्तिर्भवतु ।  
सर्वेषां शान्तिर्भवतु ।  
सर्वेषां पूरणं भवतु ।  
सर्वेषां मंगलं भवतु ॥  
ॐ शान्तिः शान्तिः शान्तिः

May all be in perfection.  
May all be in peace.  
May all be in contentment.  
May all be in auspiciousness.  
Om! Shanti! Shanti! Shanti!

ॐ लोकाः समस्ताः सुखिनो भवन्तु ।  
लोकाः समस्ताः सुखिनो भवन्तु ।  
लोकाः समस्ताः सुखिनो भवन्तु ॥  
ॐ शान्तिः शान्तिः शान्तिः

Let the whole world be happy and contented  
(3 times)  
Om! Shanti! Shanti! Shanti!

ॐ पूर्णमदः पूर्णमिदं  
पुर्णात् पूर्णमुदच्यते ।  
पूर्णस्य पूर्णमादाय  
पूर्णमेवावशिष्यते ॥  
ॐ शान्तिः शान्तिः शान्तिः

That is whole, this is whole  
From the whole arises the whole  
Removing the whole from the whole  
The whole alone remains  
Om! Shanti! Shanti! Shanti!

ॐ श्री गुरुभ्यो नमः  
हरिः ॐ

Salutations to the Guru!  
Hari, Om!

# AMRITA SCHOOL OF BIOTECHNOLOGY

Name : .....

Roll No. : .....Branch: .....

Date of Birth : .....Blood Group: .....

Address : .....

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Phone No. : .....

E-mail : .....

Savings Bank A/c No. : .....

Contact No. for Emergency : .....

## SCHOOL OF BIOTECHNOLOGY

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# AMRITA VISHWA VIDYAPEETHAM

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## ACADEMIC ADMINISTRATION

Chancellor	:	Sri Mata Amritanandamayi Devi
President	:	Swami Amritaswarupananda Puri
Pro-Chancellor	:	Swami Abhayamritananda Puri
Vice-Chancellor	:	Dr. P. Venkat Rangan
Registrar	:	Dr. Sankaran
Dean (School of Biotechnology)	:	Dr. Bipin Nair

## CAMPUS ADMINISTRATION

Director (Amritapuri Campus)	:	Br. Devidasa Chaitanya
Associate Dean (Amritapuri Campus)	:	Dr. Balakrishnan Shankar

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### **AMMA – OUR INSPIRATION**

“Knowledge is like a river. Its nature is to constantly flow. Wherever it can flow, it does so, nourishing culture. On the other hand, the same knowledge, if devoid of values becomes a source of destruction for the world. When values and knowledge become one, there can be no more powerful instrument for the welfare of humankind. Today, physicists have been begun investigating the possibility that the essential substratum of the manifest universe and the individual are one and the same. We are standing on the threshold of a new era wherein material science and spirituality will move forward hand in hand.”

### **AMMA’S PRAYER**

“It is AMMA’s prayer that we develop the expansive-mindedness to embrace both scientific knowledge and spiritual knowledge and spiritual wisdom. We can no longer afford to see these two streams of knowledge as flowing in opposite directions. In truth, they complement one another. If we merge these streams, we will find that we are able to create a mighty river – a river whose waters can remove suffering and spread life to all of humanity”

### **AMMA – OUR INSPIRATION**

Satguru Sri Mata Amritanandamayi Devi, affectionately called AMMA by Her devotees, is the embodiment of love and compassion. She devotes every moment of Her life for the suffering humanity. AMMA warmly embraces thousands of people day after day, wiping their tears, offering solace and giving them Her divine guidance. AMMA’s compassion crosses all the barriers of nationality, race, caste and religion. AMMA recommends the path of selfless service and love, exemplified by Her own life

### **MATA AMRITANANDAMAYI MATH**

The Math was established to disseminate the message of Amma – universal love and selfless service, AMMA says. “There are two kinds of education – education for life and education for livelihood”. It is Her wish to bring the two together, creating professionals in all fields with skills, mental strength and the heart to uplift the world. With this vision the Math has established a vast network of more than 60 educational facilities throughout India, including Schools in Engineering, Business, Medicine, Pharmacy, Biotechnology and Science & Humanities that provide the most modern education while making the students imbibe the traditional values of Indian Culture.

## **AMRITA VISHWA VIDYAPEETHAM**

Amrita Vishwa Vidyapeetham, with its head quarters in Ettimadai, Coimbatore, is one of the youngest group of educational institutions in India to have been granted the University status u/s 3 of UGC Act 1956. This status was conferred on it by the Ministry of Human Resources & Development(MHRD), Government of India after meticulous inspection by the teams from University Grants Commission (UGC), Medical Council of India (MCI) and All India Council for Technical Education (AICTE).

Amrita Vishwa Vidyapeetham has been awarded "A" grade (the highest possible grade) by National Assessment and Accreditation Council (NAAC) in 2021. Amrita Vishwa Vidyapeetham has emerged in the Top 100 universities in the world in the Times Higher Education (THE) Impact Rankings.

Amrita Vishwa Vidyapeetham is one of the very few Universities to have a multi-campus, multi-disciplinary character at the outset, offering education in fourteen disciplines including Engineering, Business and Medicine through a dedicated and qualified faculty. Amrita is the nation's first multi-campus university interlinked via satellite facilitation e-Learning that transcends limitations of time and space. Amrita offers value-based education through its constituent schools. The international advisory board and the academic council comprising eminent academicians and industry stalwarts guide Amrita in its effort to achieve excellence in research and education.

## **AMRITAPURI CAMPUS**

The Amritapuri Campus, is nestled in the picturesque village of Vallikavu, across the famed and beautiful backwaters of Kerala. Schools in Amritapuri, with its proximity to the International Headquarters of the Mata Amritanandamayi Math, has the advantage of basking in AMMA's effulgent presence. Seeking guidance and inspiration from its Chancellor, Satguru Sri Mata Amritanandamayi Devi, the campus provides students a learning environment that harmoniously blends science and spirituality. The Campus is spread over more than 105 acres of land with more than a million sq.ft. of built-up area comprising of academic blocks, student hostels and other amenities. About 85% of student population are hostellers. The vicinity and proximity of Amma's Ashram provides students a better opportunity to nurture values and self discipline. The campus provides all the modern amenities which make campus life a memorable one. With everything from yoga classes to the full-fledged cafeteria, the students have exposure to a world-class university education. The life in the campus is exciting, stimulating, demanding, challenging and downright hard working. Students are encouraged to participate in the social service activities initiated by the ashram, which help them to imbibe the spirit of selfless service.

## **Schools on the Campus**

1. Amrita School of Arts, Humanities and Commerce
2. Amrita School of Ayurveda
3. Amrita School of Biotechnology
4. Amrita School of Business
5. Amrita School of Computing
6. Amrita School of Engineering
7. Amrita School of Social and Behavioural Sciences
8. Amrita School of Spiritual and Cultural Studies
9. Amrita School of Physical Sciences

## CREDIT SYSTEM OF EVALUATION\*

### Introduction

Amrita School of Biotechnology follows a credit-based system for evaluation under a semester pattern. This allows flexibility on courses, time frame, teaching and learning, evaluation procedures and mobility.

### Academic year and Semesters

An academic year (July to June) consists of two semesters and possibly a summer term. Each semester has a minimum of 80-85 teaching days and about 8-10 days for the end semester examinations.

### Credit based Academic System

A credit-based system is a systematic way of describing an educational programme by attaching credits to its components. Credit is a way of quantifying the knowledge content. When enough credits are accrued or earned, the programme is completed successfully. Credit system makes educational programmes easy to understand and compare both nationally and internationally. It facilitates mobility, academic flexibility and universality and helps universities to organize as well as reorganize their study programmes quickly. It can be used across a variety of programmes and modes of delivery.

### Programme

An educational programme specializing in a specific area covers many knowledge segments. An example is the B.Sc. programme in Biotechnology.

### Allotment of Credits

Credits are allocated to the knowledge segments giving due importance to their weightings. The sum of the credits allotted to the knowledge segments decides the programme credits. The programme is successfully completed from the academic angle, once the specified programme credits have been earned.

Example: (For a B.Sc. Biotechnology Programme)

Knowledge Segment	Category	Credits
Language, Cultural Education & Soft Skills	S	17
Mathematics, Physics & Chemistry	M	12
Core Lifesciences	C	73
Laboratory Courses	L	18
Project/Dissertation Thesis	P	7
Total Credits for programme completion		127

Under each knowledge component, the credits are again distributed among the identified courses. The number of courses and the credits allocated to each, could vary. However, the student need to get only the minimum credits in each of the components as mentioned in the example and a prescribed minimum total number of credits for successfully completing the academic programme. Additional credits taken will be an added advantage from the professional angle, but not from the academic requirements.



## Course Credits

Each course, except for a few special courses, has a certain number of credits assigned to it depending on the lectures, tutorials, laboratory works and contact hours in a week. Lectures (L) have one credit per each contact hour in a week. Laboratory and Practical (P) classes carry one credit for two / three contact hours in a week. Projects, fieldwork etc are given a specific number of credits without any direct reference to the hours spent.

Example:

- a) A Course on Plant Biology  
Number of Lecture hours per week – 4 Credits: 4
- b) A Laboratory Course on Microbiology:  
Number of Laboratory hours per week -3 Credits: 2

These are normally indicated in the curriculum, as follows:

Category	Course Code	Course Title	Hours per week		Credits
			L	P	
C	BIO223	Plant Biology	4	0	4
L	MIC281	Microbiology Lab	0	2	2
P	BIO39	Project	0	20	7

## Curriculum

Curriculum is the framework of an academic programme. In the credit based system, curriculum will specify the category, course code, course title, course delivery (Lectures / Lab / Project) and the credits. Curriculum is presented semester-wise for convenience and will take into account all the knowledge segments and their assigned credits. The total credits to be earned for programme completion will be specified clearly. Our curriculum has the following credit allocations among the knowledge segments:

### B.Sc. Biotechnology

Knowledge Segments	Category Admissions	2017 Admissions onwards
Language, Cultural Education & Soft Skills	S	17
Mathematics, Physics & Chemistry	M	12
Core Lifesciences	C	73
Laboratory Courses	L	18
Project/Dissertation Thesis	P	7
Total credits needed for programme completion		127

Knowledge Segments	Category Admissions	2017 Admissions onwards
Language, Cultural Education & Soft Skills	S	17
Mathematics, Physics & Chemistry	M	12
Core Lifesciences	C	72
Laboratory Courses	L	20
Project/Dissertation Thesis	P	7
Total credits needed for programme completion		128

For the **M.Sc. programmes**, a total of 76 credits(Biotechnology), 76 Credits (Microbiology), 78 credits(Bioinformatics) have to be earned. 10 credits of project work have to be earned additionally for the successful completion of the programme.

### Credit System Flexibility

Credit system allows flexibility on the selection of courses and time frame for completion of the programme. It also provides a good blend of teaching and learning, ensuring credible evaluation procedures and student mobility. The credit system is evolved around the teacher and the taught.

The prominent features of the credit system cover continuous evaluation of students' performance through well-planned assessment procedures and the flexibility to allow a student to progress at a pace suited to his / her individual ability and convenience, subject to certain conditions. While a prescribed minimum number of credits are to be earned for the award of degree, a minimum level of performance is necessary for progressing with the studies.

### Class Counsellors

Each class will have one/two class counsellor(s) to help and guide the students in the academic process, solve their problems, if there is any, as also to provide counselling and guidance for the needy. They will also monitor the progress of the students in their studies and report the same to their parents periodically.

### Checks and Controls in the Credit System

To achieve purposeful flexibility, a good system control is needed. Hence there are specific rules and procedures to be adhered to in the credit system. Certain courses in each knowledge segment are identified as core courses and others as electives. There is mandatory registration and credit earnings requirements for core courses. Electives are free to be chosen from those offered, for registration. While it is mandatory to register for the elective courses, failure to earn credits in them does not necessarily mean repeating the courses. Another elective course may be permitted as a replacement course.

Certain courses are pre-requisites for advanced courses. For example, Molecular Biology could be a pre-requisite for Genetic Engineering. This means that the student cannot take Genetic Engineering unless he/she has completed Molecular Biology. Here the term completion means that the student has registered for the course, done all assignments and tests, attended the class with 75% or more attendance and has written the end semester examination. The student need not have to earn credits (i.e., pass the course) for fulfilling the pre-requisite needs.

## **How to go about with the credit system?**

The first step, in the credit based system, is the registration for the various courses. For first semester, registration is done at the beginning of the semester. In the subsequent semesters (2nd semester onwards), registration will be done at the end of the previous semester. The students have to enroll for the courses, earlier registered, at the start of the semester.

During enrolment, one can drop the earlier registered courses or add new courses, with the approval of the faculty advisor / Counsellor and the concurrence of the Dean of the School.

All students will have to register before a specified date. However for valid reasons, late registration with a fine will be permitted up to a specified date. These dates will be announced well in advance.

## **Registration**

Students will be made aware of all information on the courses being offered in that semester. In the first few semesters there may not be much of a choice to decide on. As one progresses, the flexibility will become more evident. Students have to consult the faculty members who have been identified as their advisors, for advice and assistance in registration.

Minimum and Maximum credits for which one can register in a semester is specified in the relevant curricula. Any deviations will need the approval from the Dean, School of Biotechnology.

A student is permitted to register / enroll for courses only if he / she has:

- a) Paid all fees and has no dues to the university
- b) Has maintained a progress, as required by the university
- c) Has completed any pre-requisite courses prescribed
- d) Has no disciplinary action pending against him / her

## **Conduct of Courses**

Credit system encourages learning. Apart from regular class lectures, students will be given major assignments which will form a part of the course and will also be considered for evaluation. Seminars, design and other assignments, technical paper writing, quizzes etc. could also be a part of the course being conducted.

The teacher offering the course will evaluate the performance of the students at regular intervals and in the end semester examination. A class committee comprising all teachers handling all the courses for the class, the class counsellors and students' representatives will monitor the conduct of all the courses of a class.

The faculty member offering a course will decide on the course plan, evaluation procedure and any midway correction to be taken. Decisions taken by this committee will be informed to all students who have registered for the course. The class / course committees without students' representative will finalise the grades and results for the class / course.

It is mandatory for the students to appear for the end semester examination / supplementary examination for the completion of the course.

If the Project work is not satisfactory, the student will be asked to continue the project till he / she completes it satisfactorily.

## Grace Marks

At Amrita Vishwa Vidyapeetham achievements in extra curriculum activities are rewarded as a grace mark with a maximum of 10 marks following are the categories of extracurricular activities where students can score grace marks.

SPORTS & GAMES	-10
CULTURAL EVENTS	-10
TECHNICAL COMPETITIONS	-10
SEVA ACTIVITIES	- 5

Students must take initiative to apply for the process of awarding grace marks.

## Attendance

- Additionally, a 5% weightage is given to attendance above the total weightage
- All students are required to attend 100% of the classes.
- Leave of absence could be applied for in the form provided in the School website/ Store and will be granted by Counsellor only in genuine cases.
- Two types of leave are permitted, namely, Duty Leave, and other Leaves.
- All leaves (except duty leave) put together, as sanctioned by the Counsellor should not exceed 25% of the total classes, for eligibility to appear for the end semester examination.

### • Marks for attendance

- i) 5 marks for 96-100% attendance
- ii) 4 marks for 91-95% attendance
- iii) 3 marks for 86-90% attendance
- iv) 2 marks for 80-85% attendance
- v) 0 mark for 75-79% attendance
- vi) 'FA' for < 75% attendance

Students representing the University events either within the campus or outside the campus will be marked as present (OD). However, students should submit an OD form approved by Chairperson/Dean prior to attending the event. OD form submitted after the event will not be entertained and the student will be marked absent.

## Assessment Procedure

The academic performance of each student in each course will be assessed on the basis of Internal Assessment (including Continuous Assessment) and an end-semester examination. Normally, the teachers offering the course will evaluate the performance of the students at regular intervals and in the end-semester examination.

In theory courses (that are taught primarily in the lecture mode), the weight for the Internal Assessment and End-semester examination will be 50:50. The Internal assessment in theory courses shall consist of at least two periodical tests, weekly quizzes, assignments, tutorials, viva-voce etc. The weight for these components, for theory-based courses shall be 20 marks for the Continuous assessment, comprising of Quizzes, assignments, tutorials, viva-voce, etc. and 15 marks each for both the Periodical Tests.

At the end of the semester, there will be an end-semester examination of three hours duration, with a weight of 50 marks, in each lecture-based course. In the case of laboratory courses and practical, the relative weight for Internal assessment and End-semester examination will be 80:20. The weight for the components of Internal assessment will be decided by the course committee/class committee at the beginning of the course.

## Grading System

2017 Admissions onwards		
Grade Point	Grade	Rating
O	10	Outstanding
A+	9.5	Excellent
A	9	Very Good
B+	8	Good
B	7	Above Average
C	6	Average
P	5	Pass
F	0	Failed
FA	0	Failed due to lack of Attendance
I	-	Incomplete (Awarded only for Laboratory project courses)
W	-	Withheld

If the student secures 'F' grade in any of the courses, he/she can reappear for the supplementary exam.

If the student secures 'FA' grade in any of the courses, he/she has to re-register(redo) for the course when it is being offered next.

A student who has been awarded 'I' grade in the laboratory courses shall take up additional laboratory sessions during the first two months of the next semester and earn a pass grade, which will be reflected in the next semester's grade sheet.

If a student is absent for the end semester examination, he/she will be allowed to reappear on proper evidence for his/her absence.

### Grade Point Average

Based on the credits for which the student has registered and the grades awarded, Semester Grade Point Average [SGPA] and Cumulative Grade Point Average [CGPA] are calculated.

$$\begin{aligned}\text{SGPA} &= \frac{\sum (C_i \times Gp_i)}{\sum C_i} \\ C_i &= \text{Credit for the } i^{\text{th}} \text{ course in that semester} \\ Gp_i &= \text{Grade point for the } i^{\text{th}} \text{ course} \\ \text{CGPA} &= \frac{\sum (C_i \times Gp_i)}{\sum C_i} \\ C_i &= \text{Credit for the } i^{\text{th}} \text{ course in any semester} \\ Gp_i &= \text{Grade point for the } i^{\text{th}} \text{ course}\end{aligned}$$

## Grade Sheet

Grade sheet issued to the student at the end of the semester will contain the following information..

1. Name, Roll No., Grade Sheet No., Semester, Branch, Month and year of Examination.
2. Course Code, Course Title, Credits and Grade Obtained, Grade Points Earned for the courses registered.
3. Credits registered and earned during the semester.
4. Cumulative Credits earned and Grade Points.
5. SGPA.
6. CGPA.

## Revaluation of Answer Papers

An aggrieved student can request for revaluation of answer script of the end semester examination, through a well laid out procedure. There will be revaluation fee for each paper. If the revaluation leads to a better grade, the revised grade will be awarded to the student and in such cases the revaluation fee will be refunded in full. Revaluation is allowed only for lecture-based courses.

## Course Completion

A student is said to have successfully completed a course and earned the corresponding credits, if he / she has;

- Registered for the course.
- Put in 75% or more attendance in the course.
- Written the periodical tests and end semester examination.
- Obtained a pass grade D or above in the course.
- No disciplinary proceedings against him / her.

## REMEDIAL MEASURES

### Supplementary Examination

- Students with 'F' Grade may take the supplementary examination in a course up to a maximum of three additional attempts (excluding main end semester examination) carrying the previous internal assessment marks earned by them.
- Students failing to pass the course after two additional attempt shall henceforth appear for the supplementary examination for the entire 100 marks and the internal assessment marks earned by them in their regular registration shall not be considered.
- Grade Rule for supplementary examination: Supplementary exams will be evaluated against the most recent grade rule (whenever the course was offered recently during a regular semester)
- Fee for the supplementary examination will be Rs.300/- per paper during the regular duration of the program, after which the student shall pay Rs.1000 per attempt.
- Supplementary examinations will be scheduled after consequent end semester examinations. A failed student has an option to improve his/her end semester marks for a failed course whenever the same course is offered later.
- If a student, who is in the final semester of an academic program fail in any of the courses offered in that semester, he / she will be provided an option to appear for a supplementary examination during that semester holidays itself

## **Re-registration/Redo**

A student who has not secured a pass grade in a course in the initial registration can register for the same course when offered next along with the junior batch. Students with FA grade are also permitted to register. Two chances of re-registration is allowed per course apart from the regular registration.

## **Contact Courses**

Students in the final semester with one or two arrears with F grade(s) can register for the contact course, if offered. The contact course will run for 45 / 60 hours of contact classes depending on the credit load of the course. Students with FA grade in a given course cannot register for the course under this option.

## **Runtime Re-do Course**

Students with F / FA grade in course can register for a runtime re-do course, if available, on the condition that the total number of credits registered in the semester shall not exceed 28 credits. Runtime re-do courses are run concurrently with a regular semester and would last a full semester.

## **Discipline**

Every student is required to observe strict discipline and decorous behaviour both inside and outside the campus and should not indulge in any activity which may bring down the prestige of Amrita Vishwa Vidyapeetham.

A campus level disciplinary action committee will deal with any act of indiscipline of misbehaviour, unfair practice in the class / university examination etc., and its decision on the action to be taken shall be final. Serious acts of indiscipline may even attract penalty leading to expulsion from the University.

## **Award of the Degree**

A student will be declared eligible for the award of the Degree, if he / she has:

- Registered and earned the credits for all the core courses and project work.
- Earned the minimum required number of credits for the branch of study as specified in the curriculum.
- Earned the specified number of credits in all categories.
- No disciplinary action pending against him / her.
- There are no outstanding dues against him / her.

## **Ranking**

The ranking of the students in a batch at final stage is based on CGPA. Only those students who have passed all courses up to that stage in the first attempt are considered for ranking.

Students are eligible for final ranking, only if the programme is completed within the normal duration.

## **Classification of successful candidates**

A student shall be considered to have successfully completed the programme, if he/she has -

- a) registered and successfully completed all the core courses and projects.
- b) earned the required minimum number of credits as specified in the curriculum corresponding to the branch of his/her study, within the stipulated time.
- c) Earned the specified number of credits in all the categories of courses.

Candidates, who have successfully completed the programme, shall be classified as follows:

- a) Candidates securing a CGPA of 8.00 and above – DISTINCTION.
- b) Candidates securing a CGPA between 6.50 and 7.99 – FIRST CLASS and the same be mentioned in the Degree Certificate'.
- c) If the programme is completed after six (B.Sc.) / four (M.Sc.) semesters of study, the candidates securing a CGPA of 6.50 and above shall be classified to have completed the programme, only with FIRST CLASS.

## **GENERAL RULES AND REGULATIONS ON THE CAMPUS**

1. Students are required to be punctual, polite, well-mannered and decently dressed.
2. Classes commence every day with a Universal Prayer of Vedic hymns. All the students shall reach their classrooms well before (8.40 a.m.). No student shall move around in the corridors during prayer. Students reaching the classrooms after prayer will be marked absent for the first period.
3. All students shall wear uniforms on all working days(except on Wednesdays and Saturdays) and for all campus events along with their ID cards.
4. ID's should be worn (around the neck) when they are on the campus.
5. On holidays and during non-working hours, they should wear decent dress on the campus and in the Mess Halls.
6. Day-scholars are not allowed to enter the Hostel without the permission of the Chief Warden.
7. Consumption of non-vegetarian food on the campus is prohibited.
8. Smoking, use of tobacco / tobacco products, consuming alcohol and use or possession of any intoxicant on the campus are strictly prohibited.
9. Unauthorised meetings, participation in political agitations and all types of demonstrations are prohibited on the campus.
10. Damage to University property will attract penalty with replacement cost.
11. Reading / possession / circulation of any vulgar or obscene material in any media is banned in the campus.
12. Possession of mobile phones is banned on the Campus. Any violation will lead to confiscation of the phones.
13. All students are expected to live in the hostel during their course. However local students who live with their parents within a radius of 30 kms from the campus will be permitted to come their homes.
14. Students are not permitted to live in rented houses, lodges either alone or in groups.
15. Students will arrive on time to the school and refrain from leaving early unless prior permission has been granted. Students who wish to stay back at the school after 6.00 p.m. shall get permission for the same from the Dean. They should also get a certificate from the staff in charge of the activity for which they are staying back clearly showing the time from and to which they were present in the college for that activity. This certificate will have to be produced at the hostel.
16. Students shall in general obtain a prior permission with a gate pass from the authorities for leaving the campus during class hours (8.40 a.m to 4.40 p.m.).



17. Students shall take responsibilities for all their belongings themselves.
18. Students shall bring to the campus only those articles required for academic or cocurricular activities. They shall not bring devices like stereos, walkman, radios, camera, musical instruments, etc. to the class unless otherwise a written permission has been obtained from the authority

## **RAGGING IS A CRIMINAL OFFENCE AN IT IS BANNED ON THE CAMPUS**

Ragging is a criminal offence. Ragging includes tormenting others by words or deed, playing rough jokes on others, engaging in rough play, physical assault or threat, use of physical force, verbal abuse and aggression, exhibiting indecent gestures and obscene behaviour, exposing fellow students and others to ridicule and contempt, violating the status, dignity and honour of fellow students and others, violating the privacy and rights of others and harassing or exhibiting riotous behaviour.

Students involved in ragging are liable for summarily expulsion from the Institution, with a note in his / her Transfer Certificate to that effect, and the case may also be referred to the Police. In such cases, the student will not be able to continue his / her studies not only in this Institution but also in any other institution.

## **UNIFORM AND DRESS CODE**

1. All students shall wear uniforms on all working days along with their ID cards.
2. Uniform shall strictly conform to the pattern specified.
3. On, Wednesdays, Saturdays, holidays and during non-working hours, they shall wear decent dress in the campus and the Mess halls. Boys shall wear pants and shirt and girls shall wear sari or churidhar.
3. ID's shall be worn (around the neck) on all days.
4. Wearing clothing that is torn or has holes (even if unintentional) is not permitted.
5. Hair should be kept clean, well groomed and modestly styled.
6. Students should avoid costly ornaments and undue make-up.
7. Apparel with provocative/suggestive language, or inappropriate advertising, is prohibited.
8. Any violation of the aforesaid rules will attract severe disciplinary action which may lead to the termination of the student from the Institution. In all academic or disciplinary matters, the decision of the authorities will be final.

## **FEES AND DEPOSITS**

Tuition fees and all other fees should be paid before the specified date and receipt obtained thereof. Students who do not produce the receipt during enrolment will not be permitted to enroll for any of the courses. Refer pages 38-40 to know the details of the fee for all the programs and the online transaction methods.

## **Interpretation Clause**

Related to any of the academic matters, whenever there arises any doubt or dispute on the interpretation of regulations or rules, the decision of the Academic Council will be final as well as binding on all concerned.

## **Amendment to Regulations**

Notwithstanding anything stated above, the Amrita Vishwa Vidyapeetham reserves the right to modify any of the regulations, as deemed fit, from time to time.

## **CODE OF CONDUCT FOR HOSTEL RESIDENTS**

All residents of the hostel are required to follow the rules stated below. University reserves the right to take disciplinary action in case of violation of these rules.

### **General Rules**

1. At the time of admission of a student into the Hostel, each one is required to submit a duly filled Admission Form (contain personal details) and declaration form to Chief warden. Any change in information at any point of time has to be intimated to the Warden in writing.
2. Allotment of rooms shall be the sole discretion of the Hostel administration, which may allot the rooms either on first-come-first-served or any other basis, depending upon the situation, prevailing factors and objectives e.g. fostering cross-cultural relationships.
3. Residents shall respect the equal rights of their roommates.
4. If the status, on the basis of which an resident was allowed accommodation in the Hostel, changes during the period of stay in the Hostel, he/she is required to inform the Hostel Warden(s) immediately. Such student may be asked to vacate the Hostel if the Hostel Management finds that he/ she is no longer eligible for Hostel accommodation.
5. The students are entitled for accommodation in the Hostel as long as they are full time registered students. Accommodation will not be provided to any student whose registration is cancelled. Any student, whose name has been removed from the Rolls of the Institute, will automatically cease to be an resident of the Hostel. Such students shall immediately leave the Hostel.
6. All residents are required to maintain standards of behaviour expected of students of a prestigious Institution such as ours. They are expected to behave courteously and fairly with everyone inside and outside the Hostels and campuses.
7. Use of Powered vehicles by students inside the hostel has been banned.
8. Residents shall not stay away from the hostel without the written permission of the Chief Warden
9. All residents are required to produce, whenever asked, their valid identity cards issued to them by the Institute.
10. Ragging in any form is banned. Severe punishment, including expulsion from the Hall and the Institute, shall be imposed on any resident if he/she is found to have indulged in ragging.
11. Any resident, for that matter any person / student, if are witnesses to an incident of ragging, must report the same immediately to the Hostel Authorities and/or Institute Authorities. Failure to do so shall be considered as a serious offence and shall be dealt with at par with the perpetrators of ragging.
12. Any fresher, for that matter any resident, if subjected to any form of ragging, must report the incident immediately to the Hostel Authorities. Non-reporting of the incident by a victim shall also be considered as an offence.

13. When the students/residents committing or abetting the crime of ragging could not be identified, collective punishment on a group or all the residents may be resorted to as a deterrent measure.

## **Hostel Code of Conduct**

1. All residents are required to carry their valid Identity Cards issued to them by the Institute in college, Ashram, Mess hall & Canteen and are subject to shown on the demand of warden / security person / Mess staff.
2. The rooms, common areas and surroundings should be kept clean and hygienic. Everybody should clean their rooms' their own. Notices shall not be pasted on walls and walls shall not be scribbled on.
3. The hostel management is authorized to make spot checks on a weekly basis; if rooms are found dirty, in the interest of hygiene and untoward hazard, the rooms will be cleaned by hostel authorities and the student will be charged for the service provided. Please understand that unhygienic conditions are breeding grounds for bugs and rodents.
4. He/she should see to the upkeep of his / her room, hostel and its environment. Students should bring to the notice of the General Administration office, through the Warden, for all routine maintenance works (Civil, Carpentry and Electrical), if any, to be carried out in their rooms.
5. Students should co-operate in carrying out maintenance work and vacate their rooms completely when the Hostel Management requires the rooms for this purpose. On such occasions, the management will try to provide alternate accommodation. If any maintenance work is to be carried out when the room is under occupation, it is the occupant's responsibility to make the room available for the same.
6. The students should not screen pirated / unauthorized / unlicensed movies in their computers and common rooms. Viewing or be in the possession of ponographic materials in their computers or in their mobile is not permitted. Any violation will be dealt severely. Punishment for the same will be decided by authorities.
7. The resident of a room is responsible for any damage to the property in the room during his / her occupancy of that room and will be required to make good the damage, if any. He/she is required to fill the inventory of the furniture and other items available and hand over the furniture & other materials in good condition when he/she changes/vacates the room / hostel.
8. In case of damage to or loss of hostel property the cost will be recovered from the students responsible for such damage or loss, if identified, or from all the students of the hostel, as decided by the Residents Warden.
9. The resident shall not move any furniture from its proper allotted place and also not damage them in anyway. If there are any additional items other than the above belonging to the hostel room, the occupant of the room shall hand over them to the Resident Warden, failing which he/she will be charged a penal rent as decided by the Resident Warden.
10. Residents should not enter into any unnecessary conversation, quarrel or altercation with the hostel staff. If anyone has any complaint against any employee of the hostel, a written complaint against the person is to be lodged with the Warden. Use of abusive and harsh language against the hostel/mess staff is strictly forbidden. Serious action will be taken on any complaint received from staff/faculty against students.

11. The resident shall not remove any fittings from any other room and get them fitted in his/her room.
12. Residents will be personally and collectively responsible for any loss / damage to the hostel property. In case of damage to the hostel property the loss caused shall be recovered directly from identified persons whenever possible. But if persons caused the damage remain unidentified, the cost of repairing as assessed by hostel authorities will be equally distributed among all hostel residents floor wise or block wise of the entire hostel community if required.
13. Smoking and consumption of alcoholic drinks and / or narcotic drugs in the hostel premises is strictly prohibited. Students shall not enter the hostel premises in intoxicated state and should not possess such materials. Severe action will be taken if any resident is found to violate this, resulting in expulsion from hostels and rustication from the Institute. Hostel zone is a smoke-free zone in the Institute. Students should not smoke inside the hostel / room / common room / dining hall / toilets / corridors / terrace etc. Depending on the case, the management reserves the right to take direct disciplinary action, amounting to even expulsion at short notice from the hostel.
14. Employing unauthorized persons for personal work such as washing clothes, etc., is not permitted within the hostel.
15. Any student who is found to be indulging in undesirable activities such as physical assault, damage to property, etc., will be liable to the following punishments: a) He / she will be expelled from the hostel. b) A record of his / her misconduct will be made in the personal file. c) The cost of damage will be fully recovered from him / her together with penalty. d) He / she will also be fined commensurate with the offence committed. e) The privilege of appearing for campus interviews will be denied, when he / she reaches the final year. f) No recommendations will be given to him / her for studies abroad.
16. No student should keep any fire-arms, lethal weapons, poisonous things or intoxicants of any kind in the Hostel. Students must not take law into their own hands, but must report all disputes to the Resident Warden. All kinds of shouting, fighting, gambling, stealing, violent knocking, and maltreating or abusing are strictly prohibited.
17. Residents should not participate in any anti-national, anti-social or undesirable activity in or outside the campus.
18. Birthday celebration, bursting crackers (during Diwali, Vishu, etc..), throwing colours (during Holi) are not allowed in the hostel.
19. Residents are not allowed to bring bikes and motor vehicles to the hostel premises. In case of any reason, prior permission shall be taken from hostel Authority.
20. Students should not bring any pet animals into their rooms or encourage such practice.

## **Movement Code**

1. On college working days, residents have to leave the hostel to attend their classes by 08.00 AM.
2. Only such students who are sick or have other valid reasons will be permitted to remain in their room with the permission of Resident Warden.
3. Students to be there in the hostel before 6.00 P.m. on working days.
4. Students should attend evening Bhajans from 6.30 PM to 8.00 PM

5. On working days, 9:00 PM-11:00 PM are deemed study hours during which silence must be maintained and students must remain in their respective rooms.
6. The students must return to the hostel after dinner 9:05 PM and the hostel gate will be locked by that time. The warden is authorized to initiate disciplinary action/ charge fine on students coming late without permission. Gates will be opened at 5:00 AM.
7. Residents leaving for home shall inform the warden one day in advance. The residents shall get a permission letter countersigned by counsellors (one day before), and submitted to warden while returning from home / outside. Reason of movement should be written in the Movement register before going home.
8. Students returning from home visit are permitted to return up to 7.30 PM at night and after 5:30 AM in the morning, after specifically recording this information in the Movements register.
9. Warden will take attendance of each room from 9.00 pm. All residents should be there in their respective rooms during this time.
10. In the event of any necessity for the students to stay back at the college or elsewhere on-duty which might lead to late coming to the hostel, then "Stay Back Form", duly signed by the concerned college authorities as per rules are to be produced to the warden.
11. Students shall not remain absent from their hostels during night without the prior permission of the Warden In-charge/Warden.
12. Students going out beyond permissible hours must record their visiting details in the "Movements Register" and get permission from warden. For any movement in the next day, the movement register must be written on the present day, positively before night attendance. Students should enter the date and time of leaving and also the expected date and time of return. Upon return, the actual date and time of return must also be entered in the movement register.
13. If a student needs to go out on a short visit to nearby town like Kayamkulam for purchase of any essential items, he should write the details in the Short Movement Register available with the warden and ensure that he returns before 6:00PM

## FACULTY MEMBERS

Name	Designation
Dr. Bipin Nair	Professor & Dean, School of Biotechnology, Dean, Faculty of Life Sciences
Dr. Geetha Kumar	Professor
Dr. Sudarslal S.	Professor
Dr. Sobha V. Nair	Associate Professor
Dr. Sanjay Pal	Associate Professor
Dr. Nandita Mishra	Associate Professor
Dr. Indulekha C. L. Pillai	Associate Professor
Dr. Nidheesh M.	Associate Professor
Dr. Ajith M.	Associate Professor
Dr. Jayashree G.	Assistant Professor
Dr. Rajaguruaradhya T. C.	Assistant Professor
Dr. Dalia Vishnudasan	Assistant Professor
Dr. Parvathy Venugopal	Assistant Professor
Dr. Jayalekshmi H.	Assistant Professor
Dr. Sindhu Shetty K.	Assistant Professor
Dr. Asha Vijayan	Assistant Professor
Dr. Chinchu Bose	Assistant Professor
Ms. Shalini Dinesh	Assistant Professor
Ms. Vidhya Prakash	Assistant Professor
Ms. Suja Subhash	Assistant Professor
Dr. Prashanth N. Suravajhala	Principal Scientist
Dr. Arya Aloor	Senior Research Scientist
Dr. Vandana Sankar	Research Scientist
Dr. Muralidharan V.	Research Scientist
Dr. Renuka Suravajhala	Research Scientist
Dr. Aravind Madhavan	Research Scientist
Dr. Aswathy A.	Faculty Associate
Ms. Dhanya R.	Faculty Associate
Mr. Sreejith M.	Faculty Associate
Ms. Sreetha H.	Faculty Associate
Ms. Divya V. B.	Faculty Associate
Mr. Joshy Alphonse	Faculty Associate
Mr. Anandhu Presannan	Faculty Associate
Mr. Vishnu Raj R.	Faculty Associate
Ms. Akshaya S. Krishnan	Faculty Associate
Dr. Walter Schrenk	Visiting/Adjunct Faculty
Dr. Martin Reick	Visiting/Adjunct Faculty
Dr. Jeff Perry	Visiting/Adjunct Faculty
Dr. Prashanth Athri	Visiting/Adjunct Faculty
Dr. Lalitha Subramanian	Visiting/Adjunct Faculty
Dr. Taslimarif Saiyed	Visiting/Adjunct Faculty
Dr. Shabarinath Subramaniam	Visiting/Adjunct Faculty

Dr. Avinash K. Shah  
Dr. Sudhir Sahasrabudhe  
Dr. Praveen Nair

Visiting/Adjunct Faculty  
Visiting/Adjunct Faculty  
Visiting/Adjunct Faculty

### ACADEMIC COORDINATOR

Dr. Sobha V. Nair	
Ms. Vidhya Prakash	for PG
Ms. Suja Subhash	for UG
Dr. Sindhu Shetty K.	Examination Coordinator

### ASBT SUPPORTING STAFF

Sivakumar S.	Asst. Administrative Manager
Gopi Krishnan R.	Manager- Corporate Relations
Anoop S.	Placement Officer
Sreedevi Sheshadri	Executive Assistant
Mahima Madhavan Menon	Executive Assistant
Purnima Bagh	Executive Assistant
Bindu Baiju	Administrative Assistant
Saranya	Administrative Assistant
Sujata S.	Administrative Assistant
Dhanya N.	Administrative Assistant Gr. II
Nithya Raj K.	Administrative Assistant Gr. II
Sreeja N.	Assistant Librarian
Binoj D.	Graphic Designer
Shibu P.	Lab Assistant
Anoop K.S.	Office Attender
Mijila M.	Lab Assistant
Rimesh R.	Lab Attender
Vishnu P.	Lab Attender

### HEADS OF SUPPORT DEPARTMENTS

#### ACCOUNTS

Mr. Shivakumar	General Manager (Finance)
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#### CORPORATE AND INDUSTRIAL RELATIONS (CIR)

Br. Vishwanathamrita Chaitanya	Center Head, Chairperson
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#### CENTRAL LIBRARY

Ms. Vasanthakumari P.	Head, Central Library
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#### GENERAL ADMINISTRATION

Br. Amritaprasad	General Manager
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## HOSTEL ADMINISTRATION

Prof. A. R. G. Menon	Student Affairs
Br. Vishwanathamrita Chaitanya	Chief Warden (Boys Hostels - University Side)
Prof. Sreekala Menon	Chief Warden (Ladies - University Side)
Mr. Shankar	Mess Manager

## HR OFFICE

Mr. Narayanan Nair K. C.	Manager
Mr. S. Naushad	Manager

## INFORMATION AND COMMUNICATION TECHNOLOGY SERVICES (ICTS)

Br. Sairam	Manager (Systems/Networks)
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## PHYSICAL EDUCATION

Mr. S. Krishnakumar	Instructor & Chairman
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## SCHOOL LEVEL COMMITTEES

### ACADEMICS

Prof. Geetha Kumar	Chair
Prof. Bipin Nair	Member
Dr. Sudarshl S.	Member
Dr. Sobha V. Nair	Academic Coordinator
Dr. Nandita Mishra	Member
Dr. Sanjay Pal	Member
Ms. Shalini Dinesh	Member
Dr. Jayashree	Member
Dr. Nidheesh M.	Member
Ms. Vidhya Prakash	Associate Academic Coordinator PG Programme
Ms. Suja Subash	Associate Academic Coordinator UG Programme
Dr. Ajith Madhavan	Member
Dr. Parvathy V.	Member

Ms. Soumya Sivan	Member
Dr. Sindhu Shetty K.	Member

### ADMISSIONS

Dr. Nidheesh M.	Chair
Mr. Anoop S.	Member
Mr. Sivakumar S.	Member

### ADMINISTRATION

Dr. Sudarshl S.	Chair
Prof. Bipin Nair	Member
Prof. Geetha Kumar	Member
Dr. Nidheesh M.	Member
Mr. Sivakumar S.	Member
Ms. Purnima Bagh	Member
Mr. Anoop S.	Member
Ms. Sridevi Sheshadri	Member
Ms. Saranya	Member

### RESEARCH

Prof. Bipin Nair	Chair
Prof. Geetha Kumar	Member



Dr. Sanjay Pal	Member
Dr. Sudarshal S.	Member
Dr. Nandita Mishra	Member
Dr. Ajith Madhavan	Member
Dr. Indulekha C.L. Pillai	Member
Dr. Dalia Vishnudasan	Member
Dr. Parvathy V.	Member
Dr. Rajaguruaradhya T.C.	Member

## EXAMINATION

Dr. Sindhu Shetty K.	Coordinator
Dr. Jayashree	Member
Dr. Parvathy V.	Member
Prof. Geetha Kumar	Member
Dr. Sudarshal S.	Member
Dr. Sanjay Pal	Member
Dr. Sobha V. Nair	Member
Ms. Vidhya Prakash	Member

## IQAC

Prof. Bipin Nair	Chair
Dr. Sudarshal S.	Coordinator
Ms. Vidhya Prakash	Member
Ms. Suja Subash	Member
Mr. Anand Ghatwai	Member
Ms. Sridevi Sheshadri	Member

## STUDENT ACTIVITIES

Dr. Chinchu Bose	Chair
Dr. Ajith Madhavan	Member
Dr. Asha Vijayan	Member
Ms. Dhanya R.	Member
Mr. Sreejith M.	Member
Ms. Sreetha H.	Member
Dr. Aswathy A.	Member

## PURCHASE

Prof. Bipin Nair	Chair
Dr. Sudarshal S.	Member
Dr. Sanjay Pal	Member
Ms. Sujata S.	Member

## GRIEVANCE REDRESSAL COMMITTEE / INTERNAL COMPLAINT COMMITTEE:

Dr. Nidheesh M.	Chair
Dr. Jayashree G.	Member
Ms. Vidhya Parakash	Member
Dr. Jayalekshmi H.	Member

## POST GRADUATE PROGRAMME

Prof. Bipin Nair	Chairperson
Dr. Sobha V. Nair	Member
Dr. Sudarshal S.	Member

Working Hours		
Sl No	Description	On Working Days
1	Classes	8.45 a.m. - 4.50 p.m.
2	College Office	9.00 a.m. - 5.00 p.m.
3	Library	8.00 a.m. - 6.00 p.m.
4	Computer Lab	8.30 a.m. - 8.00 p.m.
6	Gymnasium	Boys
		Girls & Staff (Ladies)
		Boys (2 slots)
		Staff (Gents)
7	Reprographic Centre	8.30 a.m. - 4.30 p.m.

## Mess Facilities

Pure and wholesome vegetarian food is served in buffet style in the College Mess.

## Mess Timings

Service	Timings
Break Fast	07.15 a.m. – 08.00 a.m.
Lunch	12.30 p.m. – 01.30 / 02.00 p.m.
Tea	04.15 p.m. – 05.00 p.m.
Dinner	08.00 p.m. – 09.00 p.m.

## DEPARTMENT OF STUDENTS AFFAIRS

It guides and coordinates students' activities in the College, Hostel and related areas and helps them solve their academic and non academic problems. It is a bridge between the parents and the teachers.

It offers remedial counselling to help academically backward students and involves itself in maintaining campus discipline and sustaining and promoting the cherished 'Amrita Values and Traditions'.

## Awards

Student achievements in academic and non academic fields are recognized and rewarded. On Institutional day, celebrated at the fag end of the academic year, all meritorious students are given prizes and awards. Mementos and generous cash prizes are given to encourage merit.

## ASBT LIBRARY

The Library at the School of Biotechnology started as a department Library with about 100 books or so related to the core courses. The Central Library catered to the needs of students and faculty by providing options to borrow books and held collections in basic life sciences. Over the past five years, the collection at the School Library has increased to hold over 4175 books.

## Library Policies and Rules

The Library is kept open well beyond the regular working hours of the School.

Working hours of the Library

On Working days

8.30 am to 6.00 pm

Students are allowed to borrow books by signing in a register if they want to make use of the reprographic facility available at the School. Guidelines for the proper use of the Library and Library materials are distributed by the Library and are included in the student handbook. Following are the Library rules that are to be adhered to by the users of the School Library.

## Library Rules and Regulations

### General Rules

1. Strict silence should be observed in the Library and Reading room.
2. Entry is permitted with ID card only.
3. Arrange your footwear neatly on shoe rack provided.
4. Members are requested not to bring their personal belongings inside the Library and Reading room. Personal belongings should be kept with the property counter.
5. Use of Mobile phones is strictly prohibited in the Library and Reading room.
6. Users must not act disrespectfully or abusively to other users or to members of the Library staff.

7. Use of edibles in the Library is strictly prohibited.
8. Chairs and tables and other Library equipment may not be shifted and relocated in the reading room.
9. Members are requested to use their laptops only for educational purpose only.

### **Rules on Library use**

1. Books will be issued on producing the Identity card.
2. A maximum of 6 books for duration of 1 month is issued to Teaching Faculty, books for duration of 1 month to Research Scholars, 3 books for duration of 2 weeks to Nonteaching Faculty, 2 books for duration of 1 week to Students.
3. Members are entitled to renew books (maximum 1 renewal) depending upon the demand of particular books.
4. Books should be checked for missing pages or damage before issue. The last borrower will be held responsible for any damage /missing pages found, and the penalty would be at the discretion of the Librarian.
5. Every user is requested to check the status of books outstanding against his / her name soon after a transaction at the counter. Discrepancy, if any, should be brought to the notice of the Counter person immediately. Any complaint thereafter is not likely to be entertained.
6. Issued books/Personal Books, files, notes and other personal belongings are not allowed to be brought into in the library.
7. Books should not be returned on the same date.
8. Library resources like reference books, periodicals, bound volumes, CDs, audio/ video cassettes are to be referred within the library premises.
9. Members are advised not to take more than one copy of the same book.
10. The Librarian, at his/her discretion, may not reissue until some days the returned book, to the same student.
11. Reserve items are not eligible for renewal.
12. An overdue fine is charged when the book is not returned on time. Sundays and Holidays are excluded in the computation of overdue fines. An overdue charge of Rs. 5/- per day will be charged for overdue books. (applicable to Research Scholars and Students category only)
13. Books borrowed should be returned in good condition and before the due date, failing which, fine will be levied as per the rules of the Library. 14. If the borrowed book is damaged or lost, the student shall be liable to replace the book or pay double the value of the book immediately, along with the fine payable. If the damaged book belongs to a set, the borrower is responsible for the entire set.
15. Readers should return the used book in the designated place before leave the Library.
16. Borrowing Reference books for reading and photocopying can be done upon presenting and registering the book in the Reference Issue Register on submission of I.D. at the control desk.
17. On leaving the Library, all users are requested to extend their cooperation for the inspection of all books and items taken out of the Library.
18. Periodicals are limited to room use and for photocopying purposes only.

19. The infringement of the Library rules shall make the student forfeit the privileges of membership of the Library, in addition to the action taken as per the disciplinary rules of the college.
20. Notices, handout or related material may be displayed in the Library only with the permission of the Dean.

### **Library Materials Upkeep**

- Do not mishandle or upset the arrangement of books. Such practices create problems for other readers. It is not easy for the Library staff to trace misplaced books or journals.
- Students should ensure proper handling of books, journals and other reading materials.
- Any damage of books is not allowed. Do not tear pages or make any marking and writing in the books. Students indulging in such activities shall be severely punished.
- Replace the books on the shelves and when needed ask the Library staff to help in placing the books in the correct racks.
- Loss of Library book must be brought to the attention of the Library staff immediately.

### **CORPORATE & INDUSTRY RELATIONS (CIR)**

Empowering the students with wholesome knowledge and enriching their minds with human values are the two-pronged approach that Amrita Vishwa Vidyapeetham has adopted to groom all those who have come to her seeking education that will assure them a better tomorrow. Over the years, this methodology has been found quite effective in meeting the aspirations of the stake holders and in serving the goal of education as envisioned by our Chancellor, Satguru Mata Amritanandamayi Devi, that is 'education for life' instead of 'education for a living'. Today, opportunities for employment are plenty. All one has to do is to acquire specialized knowledge and related skills. But 'Amrita' is not looking at this opportunity from the point of view of mere number of jobs that the student can secure. It wants to be a contributor of outstanding human resource for the development of technology, science, art and culture, so that human societies, as a whole, stand to gain from the contributions of such inspired and empowered individuals. lofty goals demand matching efforts and we are aware of their magnitude and complexity. To achieve our goals, we have put in place the necessary structure, system and process, which went through much iteration before reaching the present stature.

In a multi campus, multi-disciplinary university like Amrita Vishwa Vidyapeetham, the students have many options to choose from, in terms of programmes, courses and specialisations. Such wide-ranging opportunities also tend to scale up the aspiration levels of the students with regard to academic contributions and professional careers. In order to fulfill the career aspirations of the students, it was found necessary for them to have expert assistance in specific areas, beyond their regular academic mapping. The 'Corporate & Industry Relations' was established to devise ways and means to achieve this objective.

The Corporate Relations function has to be all encompassing, if it has to serve varying needs of multiple disciplines and centers. CIR has been able to establish excellent rapport with senior officials of corporate, government and semi-government undertakings, and IT and core industry giants, through regular visits and other means of communication.

The University's comprehensive relationship with the industry and the corporate world has benefited students, faculty and others engaged in research and development to a very great extent, especially in terms of exposure to cutting- edge technologies and widening horizons.

The central theme of CIR has been the overall development of the students' personality, with necessary emphasis on communication skills and reasoning abilities. To get a real-life experience, students are taken through mock interviews and group discussions with internal and external experts on the Frequent tests are administered simulating corporate testing processes in intensity, variety and content, so that there are no surprises when the students actually face the placement routine. The efficacy of this approach has been borne out by the placement and subsequent feedback from employers.

## **STUDENT WELFARE**

### **Proficiency Prizes**

Every year, students with best academic performance from each programme are given Proficiency Prizes and commendation certificate on the Institutional Day.

### **Students Education Protection Policy**

Our Schools have implemented an insurance policy for the benefit of the students. This policy aims at providing protection for the education of the students in case of any unfortunate death or permanent total disability of the legal guardian due to accident. In such an event, the entire educational expenses of the student concerned will be met by the insurance company till the completion of his/her course in this institution. In addition to the above, insurance cover is arranged to meet the hospitalisation expenses (including ambulance and taxi charges) of a student in case of an accident in the college premises during college hours.

### **Students Accident Benefit Insurance**

This policy coverage is for reimbursement of hospital/medical expenses incurred by the student due to an accident while commuting to/from college, inside the campus/ participating in authorised tours/ excursions etc., upto maximum of Rs.2 lakhs.

### **Group Insurance Coverage**

This policy coverage is for natural death or death due to accident for students upto a maximum of Rs.3 lakhs per student. This is applicable to students admitted from the year 2010 onwards.

## **CO-CURRICULAR / EXTRA CURRICULAR ACTIVITIES**

### **CREATOME**

Most life science students are sure to come across a genome, proteome or metabolome at some point or the other over the course of their studies. But now we at Amrita School of Biotechnology have a new word to add to that list. "CREATOME", a cornucopia of creativity and ideas. A student driven club that acts as a platform to showcase the fabulous array of talents that the students of our department possess. We have 7 wings – Performing Arts, Non-Performing Arts, Literature, Sports, Multimedia, Science, Values for Life that broadly represent most of the activities that take place at Amrita School of Biotechnology. CREATOME hopes to inspire creativity, ingenuity, team spirit and individuality in our students and help our students prepare to take on the big bad world, confidence in themselves and their abilities.

Visit [www.creatome.in](http://www.creatome.in) to know more

## **Cultural Activities**

Amrita Vishwa Vidyapeetham has several avenues for bringing out the innate potential and creative talents of the youngsters. The inter-house arts festival 'Amritakalotsavam' and other inter-college competitions provide a platform for students to nourish and nurture such talents. Also, various Indian festivals are celebrated in a befitting and colourful manner as below:

## **Cultural Events:**

### **Amrita Kalotsavam**

'Amrita Kalotsavam' is exclusively a students' cultural programme involving the students of all the schools in the campus to help bring out the innate potential and creative talents of the youngsters. This three-day festival held every year also helps retain the culture and tradition of our motherland.

### **Biocrest**

The Anniversary celebrations at School of Biotechnology is one of the events where student showcases their talent in both academics & fine arts.

### **Amritavarsham Celebrations**

The entire student and staff community of Amritapuri Campus actively involve themselves in the birthday celebrations of our beloved AMMA, the Chancellor of Amrita Vishwa Vidyapeetham. This gives students an opportunity to imbibe Amma's message of love and service across all boundaries of faith, language, nationality and social strata.

### **Guru Poornima**

It is a celebration in honour of Vyasa Maharshi and the lineage of Guruparampara. In addition to the Pada Pooja of Amma in the Ashram, the schools organise vibrant classical performances, skits, quiz, elocution competition and bhajans etc. Messages from the life and teachings of the great gurus of India are highlighted.

### **Onam Celebrations**

This is the legendary and historical festival of Kerala which highlights the greatest message of India that all humans are equal. The most important event is the organisation of 'Pookkalam' for ten days in front of Amma's room at the Ashram by students and staff members. The additional attraction is the 'Ona Sadya' or 'Onam Feast' wherein the staff members serve the students with the elaborate spread.

### **Sreekrishna Jayanthi**

This is the birthday of Lord Sri Krishna, also known as Gokulashtami / Janmashtami. The highlights of the festival are Uri-adi representing Sri Krishna's Leelas in Gokulam, followed by Satsang, Bhajan, Pooja, Amma's message and 'prasadam' distribution by Amma Herself after midnight.

## **Cultural Associations**

### **Sanskriti**

Sanskriti is a cultural forum of Amrita Vishwa Vidyapeetham, Amritapuri Campus, which works towards the goals of creating awareness about Indian culture and to enlighten all about the various aspects of the same like Science and Technology in the Indian Society, Indian Polity and Economy, Art, Architecture, Literature and Aesthetics and Indian thought and Spirituality. Apart from organizing distinguished lectures by experts and eminent scholars at regular intervals, this forum is also mandated to discuss and debate the various aspects of Indian civilization, history and culture of the Indian people.

## **SPICMACAY**

Society for Promotion of Indian Classical Music And Culture Amongst Youth is the students cultural forum. It organises at regular intervals programmes to promote all forms of Indian classical arts and music. Internationally known exponents of art and music are invited to perform in the campus to generate interest in our culture and art forms among students.

## **Social Service Forums**

### **Amala Bharatham Campaign (ABC)**

This is a “Clean India” project organised by AMMA Herself to bring back to our Motherland Her ‘Original’ beauty and splendour. Volunteers from among the staff and students of Amritapuri campus spread the awareness to their neighbourhood about Amma’s vision of a ‘totally clean and beautiful India’. The 4th Sunday of every month, particularly, is observed as ‘Clean Sunday’. Gaining momentum everyday, the ABC has grown in dimensions to gain recognition as a national movement.

### **AYUDH**

Amrita Yuva Dharmadhara is the youth wing of Mata Amritanandamayi Math promoting selfless service to society among youth. AYUDH organizes personality development and leadership training, apart from providing avenues for students to take part in emergency services during unexpected natural calamities like earthquakes, tsunami etc. in different parts of the world. It also provides opportunities for students to participate in the Math’s various charitable activities like building free houses for the poor, involving in village development programmes, organizing health camps in villages, serving free food to the poor etc. Green Friends is a ‘nature club’ working under the banner of AYUDH with a vision to instill among the youth the love for plants and animals. It helps develop respect for oneness with nature and all elements in life. The members actively involve themselves in preserving the campus ecosphere and promoting echo-friendly way of life through creating awareness inside and out side the campus. They also organise seminars and invited talks on the subject and related issues.

### **Bharatmata Pooja**

On the Independence Day every year, Bharatmata Pooja is conducted wherein the celebration takes place in the Mata Amritanandamayi Math, usually in the presence of AMMA.

### **Green Friends**

This is a ‘nature club’ working with a vision to instill among the youth the love for plants and animals. It helps develop respect for oneness with nature and all elements in life. The members actively involve themselves in preserving the campus ecosphere and promoting echo-friendly way of life through creating awareness inside and out side the campus. They also organise seminars and invited talks on the subject and related issues.

### **VIDYUT**

‘VIDYUT’ is an all India annual level techno management fest during January– February. The fest is centred around the theme ‘Technology for Humanity’ emphasising the concept of ‘Smart Village’. The multi fest features 40 technical competitions from all the branches of engineering, arts, sciences, biotechnology, management, etc. that in their own way shall contribute to the participants in understanding the concept of Smart Village. At the end of the fest the participants go back with ideas attributing to infrastructure and maintenance of a smart village. The event provides nascent engineers the opportunity to learn, develop and contribute effectively with a broader perspective and this is achieved

through technical workshops which are scheduled throughout the event. We wish to enlighten the brilliant minds of our country through our invited lecture series featuring industry experts, management trainers and other eminent personalities. The event shall also play host to a practical Smart Village model that would showcase the utility of green energy and other smart technologies used in Smart Villages. Creative talents are duly admired at Amrita and we believe in opening up to music and dance that are bound to rejuvenate the exhausted and astute minds of our participants with a bunch of pro shows by critically acclaimed artists which would explicitly be an enthralling experience for people of all age groups.

## **Other Forums**

### **Alumni Relations**

Amrita's Alumni Network (Amritians) at the School of Biotechnology strives to create and promote a lifelong bond between alumni and students, and inspire them to care about the past, present and future of Amrita. Every year hundreds of alumni from every walk of life (and from around the globe) give something back to Amrita by mentoring students, participating in events, volunteering, serving on alumni association committees or becoming active in their local chapter.

## **Self Development Activities**

### **Department of Physical Education**

Sports provide an excellent opportunity for students to interact with each other and develop true sportsman spirit. The department of Physical Education coordinate several indoor and outdoor facilities like football, volley ball, cricket, basketball, handball, Kabaddi, Badminton (Shuttle), Kho-Kho, billiards, caroms and chess. The department organises athletic meets, inter-campus tournaments in table tennis, badminton (shuttle), volley ball, foot ball, etc annually. The campus has a well equipped gymnasium with 18 independent work stations. Also, ample facilities are available for indoor games.

Our students have participated in state level and national level sports events and bagged many awards and laurels. Talented sportsmen and women are identified by holding inter campus tournaments and participating in the inter university tournaments. Regular intramural sports events are being conducted. Talent search programmes are held for first year students to identify best sports persons.

### **Yoga & Meditation**

Good physical, mental and spiritual health are indispensable for a happy and healthy life. Realising its importance, yoga and meditation classes are arranged in the campus. IAM (Integrated Amrita Meditation) technique conceptualised by AMMA is imparted to all the students and the staff community.

## **FACILITIES**

### **Information and Communication Technology Services (ICTS)**

ICTS Department at Amrita Vishwa Vidyapeetham aims at identifying , providing and maintaining reliable computing facilities, computing network environment, communication facilities and related infrastructure to facilitate education, research, instructional and institute approved business services.

The department is functionally grouped into System/Network Administration, Hardware and Network Support and Computer center Administration.



## **Amrita Graphics**

A dedicated team of photographers, videographers and graphic designers work in the Graphics Cell of ICTS, Amritapuri Campus serving all the graphic needs of the university. The Graphics cell undertakes web/graphic designing, 3D and 2D graphics jobs on the campus like videography, photography, video, sound editing, dubbing etc.

## **Computing Facilities in the Campus.**

The campus is well equipped with over 3000 heterogeneous computers. This facility is distributed across the campus in computer centers at multiple locations. The computer centers are accessible to students during college working hours. They are also kept open beyond the college working hours and on holidays for the benefit of the students. Computing facilities in the faculty rooms, administration, research buildings, and facilities management are inter-networked with a high speed, redundant fiber optic backbone. The network, storage and servers are consolidated at the Data center located in the main building complex. The data center also hosts redundant internet links totaling to 100 Mbps. Specialized computing facilities for CAD-CAM, VLSI, Embedded Systems, Digital Signal Processing etc are also provided in the respective departments. The intranet site – [www.amrita.ac.in](http://www.amrita.ac.in) hosts links to various IT enabled services like Amrita University Management Systems (AUMS), Digital library, Central Library book search, email, helpdesk etc. Some of the specialized software available include I-DEAS, CATIA, Pro ENGINEER, UNIGRAPHICS, ANSYS, FLUENT, MOLDFLOW etc. for CAD-CAM: Protes, Model Sim, Qurtlesse, Lio Modem Spectrum, Matlab etc. for VLSI.

ICTS provide several noteworthy trends in computing, particularly in response to security issues. Significant support for departmental office groups and research areas is lent by the ICTS. Deploying central IT resources comprises Email and collaboration, server hosting, high performance computing cluster, data leak prevention, biometric and IP camera solutions, internet, Wi-Fi, security solutions, VPN, telecommunication and conferencing. High performance desktops are provided with Internet access for the university's research, academic group of users. All staff and students are provided with a domain login account in order to access the campus network and other facilities.

The academic blocks are Wi-Fi enabled for the users to get seamless connectivity. The network is also connected to other campuses at Ettimadai, Bangalore and Kochi via dedicated VPN links which enable conduct of two-way-audio-video enabled lectures and discussions. An EDUSAT Satellite-based network connecting over 70 premier Engineering colleges in India is also part of the campus network and services.

## **Campus Wi-Fi Connectivity**

The Wi-Fi technology allows inter building connectivity between different schools of our campus which enable computers to send and receive data anywhere within the range of the base stations or access points. The Wi-Fi network on the University campus would use radio technology protocol 802.11b. It is deployed in wireless LAN environment and provides up to 11mbps transmission on different channels in the 2.4 GHz band, a frequency shared by other wireless technologies like Bluetooth and cordless phones.

## **Amrita-ISRO Centre for E-Learning**

A state-of-the art E-learning Studio is established at Amritapuri campus which is connected to two satellite links. One of these links is the ISRO satellite network for education and research that links all the campuses of Amrita Vishwa Vidyapeetham. The second link is to EDUSAT for the Indo-US E-learning network which covers more than 50 colleges and universities all over India. Both of these satellite links are used for two-way audio/video communication. Students from any Amrita campus can not only 'attend' but can also interact in lectures taking place from other campuses.

## **Amrita Technology Business Incubator (TBI)**

Amrita Technology Business Incubator (TBI) is an initiative of Department of Science and Technology (DST), Government of India, hosted by Amrita Vishwa Vidyapeetham to accelerate successful development of business by grooming young and dynamic entrepreneurs. Amrita TBI aims to converting innovative ideas into products and help to ultimately transform into a venture capital funded company.

## **OTHER CAMPUS FACILITIES**

### **Convention Centre**

The convention centre houses the following facilities;

1. Acharaya Hall, fully air-conditioned with a capacity of 350 seats
2. Amriteswari Hall, fully air-conditioned with a capacity of 350 seats
3. Four Seminar Halls
4. Boys common room and Girls common room
5. Dining Hall

### **Reprographic**

Photocopying facility is available in the campus.

### **Canteen**

The University runs three full-fledged cafeterias in the campus from 8.00 a.m. to 6.00 p.m. Delicious vegetarian food, both south and North Indian variety are available during specified hours. A cafeteria is also available in the different boys' and girls' hostels during evening hours.

### **Transport**

Transport facility is available for the day scholars, faculty and staff members. College buses are plyed in different directions, like up to Kollam, Thiruvalla, Bharanikkavu and Karuvatta (beyond Haripad).

### **Medical Facility**

The students can avail themselves of the services offered at Amritakripa hospital situated in the Ashram premises. It is a well-equipped hospital with round-the-clock attendance by doctors. Specialist doctors from the city assist them in their task in case of emergencies. The hospital has tele-medicine connectivity with Amrita Institute of Medical Sciences (AIMS), Kochi and remote expert medical help can be availed through this facility.

### **Ayurveda Hospital**

This is a full-fledged hospital facility where ayurvedic treatment including Panchakarma, is available. Ayurvedic / Herbal medicines prepared in strict traditional manner available at the pharmacy.

### **Banks with ATM**

An extension counter of The Dhanlaxmi Bank is functioning in the Ashram premises. The State Bank of India, Federal Bank, Canara Bank and the South Indian Bank are also functioning near the campus. Students can make use of the personal banking facilities with these Banks. All the four banks also provide their 24-hour ATM facility near the campus.

### **General Stores**

The general store in the Ashram premises caters to the needs of the residential students.

### **Swimming Pool**

A swimming pool is located in the Ashram is utilised by students, staff members and others living on the campus. Qualified and trained coaches are also available to train the beginners.

## FEE STRUCTURE 2022

### M.Sc. BIOINFORMATICS

PAYMENT TIME	TUITION FEES	CAUTION DEPOSIT
June 2022	₹45650	₹3000
December 2022	₹45650	
June 2023	₹45650	
December 2023	₹45650	
<b>TOTAL</b>	<b>₹1,82,600</b>	

### M.Sc. MICROBIOLOGY / M.Sc. BIOTECHNOLOGY

PAYMENT TIME	TUITION FEES	CAUTION DEPOSIT
June 2022	₹70650	₹3000
December 2022	₹70650	
June 2023	₹70650	
December 2023	₹70650	
<b>TOTAL</b>	<b>₹2,82,600</b>	

### B.Sc. MICROBIOLOGY / B.Sc. BIOTECHNOLOGY

PAYMENT TIME	TUITION FEES	CAUTION DEPOSIT
June 2022	₹65100	₹3000
December 2022	₹65100	
June 2023	₹65100	
December 2023	₹65100	
June 2024	₹65100	
December 2024	₹65100	
<b>TOTAL</b>	<b>₹3,90,600</b>	

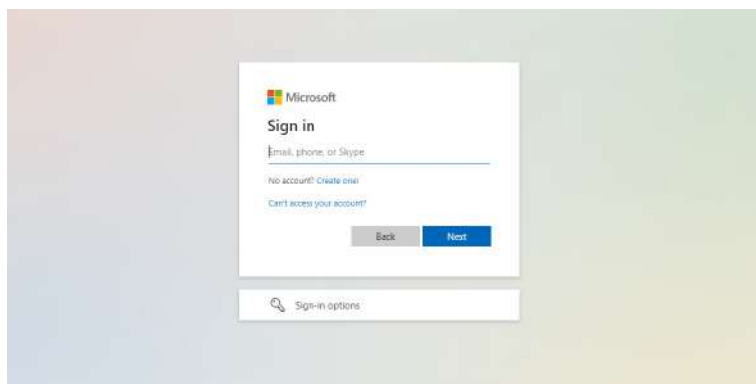
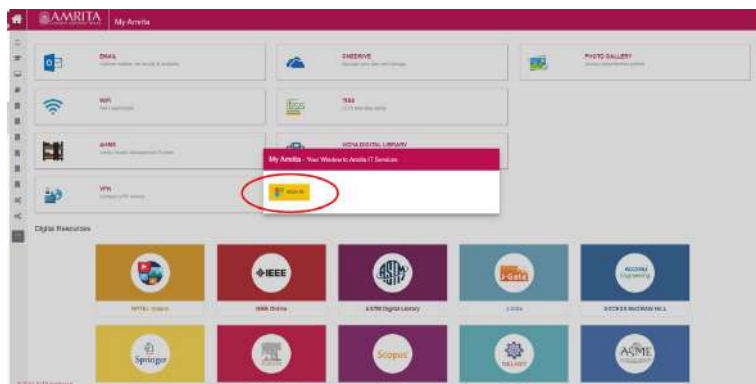
Disclaimer: Fees mentioned above are current. The University reserves the right to revise the same at any time without notice.

Tuition Fee includes fee for uniform.

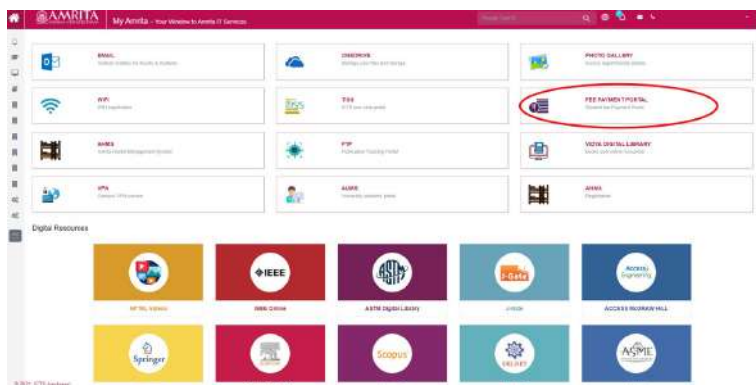
Caution deposits are refundable at the completion of the program, provided no damages are incurred.

## AMP - Student Fee Payment User Manual

Login to my.amrita.ac.in by using college outlook credentials for fee payment.



Student will be directed to my.amrita.ac.in Dashboard.  
Click on the **FEE PAYMENT PORTAL**:



Student will be directed to FEE PAYMENT Portal Dashboard:

The screenshot shows the 'Student Payment' page with two main sections: 'Personal Information' and 'Contact Details'. The 'Personal Information' section contains fields for Student Name, Roll No. (AM EN 124), Course (B.Tech), Branch (CSE), and Batch (CSE2018 D). The 'Contact Details' section contains fields for Email (amrita.students@amrita.edu), Mobile Number (NA), and a 'Mobile Number Updation' section with a 'Mobile Number\*' field and a 'Save & proceed to payment' button. A copyright notice 'Copyright © 2021 KTS - Amritapuri Campus' is visible at the bottom.

Students have to update their mobile number: Type in the mobile number and press **Save & Proceed to Payment** button

This screenshot is identical to the previous one, but the 'Mobile Number Updation' section in the 'Contact Details' area is circled in red, highlighting the 'Mobile Number\*' input field and the 'Save & proceed to payment' button.

After successfully updating mobile number, they will be directed to payment page:

The screenshot shows the 'Student Payment' page with a 'Your Fee Details' section. This section contains a table with the following data:

Fee Type	Category	Installment	Amount	Payment Status	Action
2021 CSED SEM FEE	Tuition Fee	1	30000	Pending	Proceed to Payment

Below the table is a 'Proceed to Payment' button. A copyright notice 'Copyright © 2021 KTS - Amritapuri Campus' is visible at the bottom.

All pending payments will be listed at the payment page and student can proceed to payment gateway by clicking on Proceed Payment button:

The screenshot displays the 'Fee Management Application - Anantapur Campus' interface. The top navigation bar is maroon with the application name and a user profile icon. The left sidebar contains 'Dashboard' and 'Payment History' links. The main content area is titled 'Student Payment' and features two tabs: 'PAYMENTS' and 'PROFILE'. The 'PROFILE' tab is selected, showing two sub-sections: 'Personal Information' and 'Contact Details'. The 'Personal Information' section contains a table with student details. The 'Contact Details' section includes fields for email and mobile number, a 'Mobile Number Update' section with a text input and a 'Save & generate QR' button, and a link to 'Show students enrollment'.

Personal Information	
Student Name	
Roll No.	AM EN 010
Course	B.Tech
Branch	CSE
Batch	CSE2018-D

**Contact Details**

Email: [Show students enrollment](#)



Mobile Number: NA

**Mobile Number Update**

Mobile Number\*:

[Save & generate QR](#)


Student will be directed to Payment gateway page:


**HDFC BANK**

**InstantBox**

Fulfill all your wishes with **SUMMER TREATS**

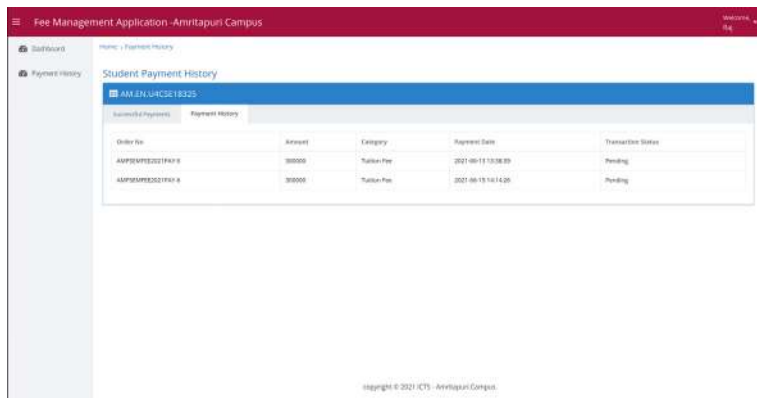
Claim up to **₹ 250 CashBack on Education** with HDFC Bank Debit Cards. Offer valid till 31<sup>st</sup> June 2021.

Time left to complete transaction: **14:50 mins**

<b>Billing information</b> Amount <b>INR 300000.00</b> Order for <b>AMPSEMFE2021PA Y-6</b> Merchant <b>ABRITA VISHAKA VEDYAPRSTNAGM</b> Website <b>https://camp.abrita.edu/</b>	PAY WITH  <b>INR 300000.00</b> Payable Amount
---	--

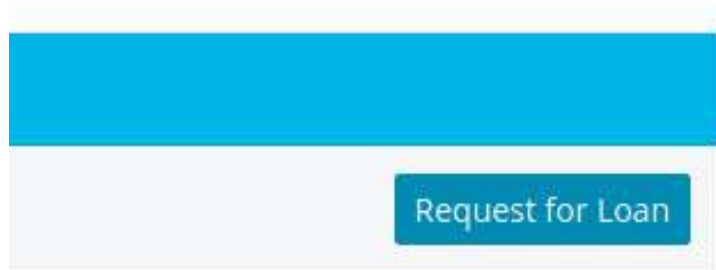
After successful payment the student will be redirected to ampfee payment page. Student can view the payment history from **payment history** on the left sidebar:

The screenshot shows the 'Student Payment' interface. In the left sidebar, the 'Payment History' link is highlighted with a red circle. The main area displays the 'Student Payment' form with two tabs: 'PAYMENTS' and 'PEOPLE'. The 'PEOPLE' tab is selected, showing the 'Personal Information' section with fields for Student Name, Roll No, Course, Branch, and Batch. The 'Contact Details' section includes fields for Email, Mobile Number, and a 'Save & proceed to payment' button.



## For students availing Bank loan

For payment related information Click  
**Request for Loan button from Dashboard.**



Submit your bank details

Fee Management Application - Amritapuri Campus

Home > Dashboard

Student Loan Request

Request For Loan

Student Name	XXXXXXXX
Roll No	AM.EN.UG.CSE18025
Course	B.Tech
Branch	CSE
Batch	CSC2018 D
Fee Term	2021 ODD SEM FEE
Fee Category	Tuition Fee
Amount	300000

Bank Details

Bank Name \*

Branch Name \*

Submit Request for Loan

Now you can download the loan request receipt. Once your loan amount is transferred to campus account you can complete the loan request process by entering transaction id.

Fee Management Application - Amritapuri Campus

Home > Dashboard

Dashboard

Payment History

Student Loan Request

Loan Requested successfully

Request For Loan

Student Name	xxxxxx
Roll No	AM.EN.UACSExxxxxx
Course	B.Tech
Branch	CSE
Batch	CSE2018 D
Fee Term	2021 ODD SEM FEE
Fee Category	Tuition Fee
Amount	300000

Bank Details

Bank Name: Test Bank

Branch Name: Test Branch

Transaction ID:

[Download Loan Request Receipt](#)

Update Loan Transaction Details

Transaction ID \*

[Update Transaction Details](#)

Once your transaction is verified, you can see the transaction status in dashboard.

Fee Management Application - Amritapuri Campus

Home > Dashboard

Dashboard

Payment History

Student Loan Request

Loan transaction details updated successfully

Request For Loan

Student Name	xxxxxx
Roll No	AM.EN.UACSExxxxxx
Course	B.Tech
Branch	CSE
Batch	CSE2018 D
Fee Term	2021 ODD SEM FEE
Fee Category	Tuition Fee
Amount	300000

Bank Details

Bank Name: Test Bank

Branch Name: Test Branch

Transaction ID: 111

[Download Loan Request Receipt](#)

Your loan request verification is Pending

\* Loan request feature is only for the students availing bank loan and applying for renewal.



## CURRICULAM

### Undergraduate Programs

Duration - Three years (six semesters)

#### B.Sc. Microbiology

##### SEMESTER 1

Sl. No	COURSE NAME	CREDITS
1	Introductory Biology	3
2	Chemistry	4
3	English	3
4	Introductory Microbiology	3
5	Physics	4
6	Cultural Education-1	2
7	Introductory Microbiology Lab	2
<b>Total Credits</b>		<b>21</b>

##### SEMESTER 2

Sl. No	COURSE NAME	CREDITS
1	Information Systems	3
2	Microbial Ecology, Diversity & Classification	3
3	Biochemistry	3
4	English/ Creative Writing & Soft Skills	3
5	Mathematics	4
6	Cultural Education-2	2
7	Physical Sciences Lab	2
8	Biochemistry Lab	2
<b>Total Credits</b>		<b>22</b>

SEMESTER 3		
Sl. No	COURSE NAME	CREDITS
1	Molecular Biology	3
2	Mycology	3
3	Biostatistics	3
4	Analytical Biochemistry	3
5	Virology	3
6	Amrita Values Programme-I	1
7	General Microbiology Lab	2
8	Cell And Molecular Biology Lab	2
	<b>Total Credits</b>	<b>20</b>
SEMESTER 4		
Sl. No	COURSE NAME	CREDITS
1	Cell Biology	3
2	Inheritance Biology	3
3	Immunology	3
4	Enzyme Technology	3
5	Microbial Physiology & Metabolism	4
6	Food Microbiology	3
7	Soft Skills-I	1
8	Amrita Values Programme-II	1
9	Immunology Lab	2
10	Food Microbiology Lab	2
	<b>Total Credits</b>	<b>25</b>
SEMESTER 5		
Sl. No	COURSE NAME	CREDITS
1	Industrial Microbiology	3
2	Medical Bacteriology	3
3	Recombinant Dna Technology	3
4	Environment & Agricultural Microbiology	3
5	Research Methodology	2
6	Soft Skills-II	1
7	Live-In-Labs/Open Elective	3
8	Medical Bacteriology Lab	2

9	Genetic Engineering Lab	2
10.	Industrial Microbiology Lab	2
<b>Total Credits</b>		<b>24</b>
<b>SEMESTER 6</b>		
Sl. No	COURSE NAME	CREDITS
1	Brite Project	7
2	Pharmacology	4
3	Parasitology	3
4	Introductory Bioinformatics	2
<b>Total Credits</b>		<b>16</b>
<b>Total credits for program completion 128</b>		

<b>B.Sc. Biotechnology</b>		
<b>SEMESTER 1</b>		
Sl. No	COURSE NAME	CREDITS
1	Introductory Biology	3
2	Chemistry	4
3	English	3
4	Introductory Microbiology	3
5	Physics	4
6	Cultural Education-1	2
7	Introductory Microbiology Lab	2
<b>Total Credits</b>		<b>21</b>
<b>SEMESTER 2</b>		
Sl. No	COURSE NAME	CREDITS
1	Principles Of Ecology And Evolution	3
2	Biochemistry	3
3	English/ Creative Writing & Soft Skills	3
4	Information Systems	3
5	Matheamtics	4

6	Cultural Education-2	2
7	Physical Sciences Lab	2
8	Biochemistry Lab	2
<b>Total Credits</b>		<b>22</b>

### SEMESTER 3

Sl. No	COURSE NAME	CREDITS
1	Molecular Biology	3
2	Biostatistics	3
3	Plant Biology	4
4	Analytical Biochemistry	3
5	Virology	3
6	Amrita Values Programme -I	1
7	General Microbiology Lab	2
8	Cell and Molecular Biology Lab	2
<b>Total Credits</b>		<b>21</b>

### SEMESTER 4

Sl. No	COURSE NAME	CREDITS
1	Human Physiology	4
2	Genetics	3
3	Immunology	3
4	Enzyme Technology	3
5	Cell Biology	3
6	Introductory Biophysics	2
7	Soft Skills- 1	1
8	Amrita Values Programme -li	1
9	Immunology Lab	2
10	Enzymology Lab	2
<b>Total Credits</b>		<b>24</b>

### SEMESTER 5

Sl. No	COURSE NAME	CREDITS
1	Genetic Engineering	4
2	Omes and Omics	3
3	Bioenergetics and Metabolism	3
4	Industrial & Environmental Biotechnology	3

5	Research Methodology	2
6	Industrial Biotechnology Lab	2
7	Softskills -Ii	1
8	Live-In-Labs/Open Elective	3
9	Genetic Engineering Lab	2
<b>Total Credits</b>		<b>23</b>

### SEMESTER 6

Sl. No	Course Title	CREDITS
1	Brite Project	7
2	Pharmacology	4
3	Developmental Biology	3
4	Introductory Bioinformatics	2
<b>Total Credits</b>		<b>16</b>

Total credits for program completion 127

## Postgraduate Programs

Duration - Two years (four semesters)

### M.Sc. Microbiology

#### SEMESTER 1

Sl. No	COURSE NAME	CREDITS
1	Cell Biology & Stem Cell Biology	3
2	Molecular Biology	3
3	Biochemistry	4
4	Ethics In Research & Intellectual Property Rights	1
5	Microbiology	2
6	Biostatistics	3
7	Cultural Education	1
8	Soft Skills	1
9	Microbiology - Lab	2
10	Biochemistry - Lab	2
<b>Total Credits</b>		<b>22</b>

SEMESTER 2		
Sl. No	COURSE NAME	CREDITS
1	Molecular Genetics	3
2	Research Methodology	2
3	Recombinant DNA Technology	3
4	Advanced Pharmaceutical Biotechnology	3
5	Industrial Biotechnology	3
6	Bioanalytical Techniques	3
7	Recombinant DNA Technology - Lab	2
8	Industrial Biotechnology - Lab	2
9	BT Elective - 1	3
10	Amrita Values Programme	1
11	Soft Skills - II	2
<b>Total Credits</b>		<b>27</b>
BT ELECTIVE 1		
1	Cancer Biology	3
2	Phage Biology	3
3	Cell Signaling	3
4	Biomimicry	3
5	Molecular & Cellular Biophysics	3
6	Neuroscience	3
7	Advanced Biochemistry	3
8	Regenerative Biology and Stem Cells	3
SEMESTER 3		
Sl. No	Course Name	CREDITS
1	Molecular & Cellular Immunology & Biology of Vaccines	4
2	Advanced Discovery Biology	3
3	Plant & Animal Biotechnology	3
4	Mass Spectrometry & Proteomics	3
5	Bioinformatics	3
6	BT Elective - 2	3
7	Immunology - Lab	2
8	Cell & Molecular Biology - Lab	2
9	Open Elective	2
<b>Total Credits</b>		<b>25</b>

BT ELECTIVE 2		
1	Nanobiotechnology	3
2	Developmental Biology	3
3	Molecular & Cellular Neuroscience	3
4	Recent Trends in RNA Biology	3
5	Ecology & Evolution	3
6	Glycobiology	3
7	Matrix biology and Biomaterials	3
SEMESTER 4		
Sl. No	Course Name	CREDITS
1	Dissertation/Thesis	10
	<b>Total Credits</b>	<b>10</b>
TOTAL CREDITS FOR THE PROGRAMME 84		

M.Sc. Biotechnology		
SEMESTER 1		
Sl. No	COURSE NAME	CREDITS
1	Cell Biology & Stem Cell Biology	3
2	Molecular Biology	3
3	Biochemistry	4
4	Ethics in Research & Intellectual Property Rights	1
5	Microbiology	2
6	Biostatistics	3
7	Cultural Education	1
8	Soft Skills	1
9	Microbiology - Lab	2
10	Biochemistry - Lab	2
	<b>Total Credits</b>	<b>22</b>

SEMESTER 2		
Sl. No	COURSE NAME	CREDITS
1	Molecular Genetics	3
2	Research Methodology	2
3	Recombinant DNA Technology	3
4	Advanced Pharmaceutical Biotechnology	3
5	Industrial Biotechnology	3
6	Bacterial & Viral Pathogenesis	4
7	Recombinant DNA Technology - Lab	2
8	Industrial Biotechnology - Lab	2
9	MB Elective - 1	3
10	Amrita Values Programme	1
11	Soft Skills - II	2
	<b>Total Credits</b>	<b>28</b>
MB ELECTIVE 1		
1	Cancer Biology	3
2	Phage Biology	3
3	Cell Signaling	3
4	Biomimicry	3
5	Bioanalytical Techniques	3
6	Molecular & Cellular Biophysics	3
7	Neuroscience	3
8	Advanced Biochemistry	3
9	Regenerative Biology & Stem Cells	3
SEMESTER 3		
Sl. No	COURSE NAME	CREDITS
1	Molecular and Cellular Immunology & Biology of Vaccines	4
2	Microbial Physiology	2
3	Food Microbiology	2
4	Mycology	2
5	Parasitology	2
6	Environmental & Agricultural Microbiology	3
7	MB Elective - 2	3
8	Immunology - Lab	2



9	Food Microbiology - Lab	2
10	Open Elective	2
<b>Total Credits</b>		<b>24</b>
<b>MB ELECTIVE 2</b>		
1	Nanobiotechnology	3
2	Developmental Biology	3
3	Molecular & Cellular Neuroscience	3
4	Recent Trends in RNA Biology	3
5	Mass Spectrometry & Proteomics	3
6	Ecology & Evolution	3
7	Glycobiology	3
8	Matrix biology and Biomaterials	3
9	Bioinformatics	3
10	Advanced Discovery Biology	3
<b>SEMESTER 4</b>		
Sl. No	COURSE NAME	Credits
1	Dissertation/Thesis	10
<b>Total Credits</b>		<b>10</b>
<b>TOTAL CREDITS FOR THE PROGRAMME 84</b>		

<b>M.Sc. Bioinformatics</b>		
<b>SEMESTER 1</b>		
Sl. No	COURSE NAME	CREDITS
1	Introduction to Bioinformatics	3
2	Molecular Biology	3
3	Cell Biology and Stem Cell Biology	3
4	Data Engineering and Administration	3
5	Applied Mathematics for Bioinformatics	3
6	Programming Language Concepts	3
7	Bioinformatics Tools (Lab)	1
8	Data Engineering and Administration (Lab)	1
9	Programming for Bioinformatics (Lab)	1

10	Cultural Education	1
11	Soft Skills I	1
12	ER&IPR	1
	<b>Total Credits</b>	<b>24</b>

## SEMESTER 2

Sl.No	COURSE NAME	CREDITS
1	Structural Bioinformatics	3
2	Molecular Sequence Analysis	2
3	Python for Bioinformatics	3
4	R for Bioinformatics	2
5	Chemistry of Biomolecules	3
6	Biological Data Sciences and Machine Learning	3
7	Biostatistics and Research Methodology	2
8	Basics of Biology (Lab)	1
9	Python for Bioinformatics (Lab)	1
10	R for bioinformatics (Lab)	1
11	Amrita Values Programme	1
12	Soft Skills II	2
	<b>Total Credits</b>	<b>24</b>

## SEMESTER 3

Sl. No	COURSE NAME	CREDITS
1	Evolution and Comparative Genomics	3
2	Mathematical Modeling for Biological Systems	2
3	Bioinformatics of High Throughput Analyses	3
4	Web Programming using Object Oriented Languages	3
5	CADD & Pharmacoinformatics	3
6	Systems Biology	2
7	Bioinformatics of High Throughput Analyses (Lab)	1
8	Web Programming using Object Oriented Languages (Lab)	1
9	Open Elective / Live-In-Labs	2
10	Next-Generation Sequencing Analysis	3
	Elective 1	3
	<b>Total Credits</b>	<b>26</b>

TOTAL CREDITS FOR THE PROGRAMME



## Vision

To provide value-based education and mould the character of the students through an interplay and exchange of ideas and actions, resulting in a society that is empowered with noble character and wholesome values.

## Mission

The mission of the school is to actively pioneer interdisciplinary education, research and industry collaboration in Biotechnology.





SCHOOL OF  
**BIOTECHNOLOGY**

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