



KERALA AGRICULTURAL UNIVERSITY

M.Sc. (Integrated) 5 year Programmes

1. **M.Sc. (Integrated) Biotechnology, College of Agriculture, Vellayani, Thiruvananthapuram.**
2. **M.Sc. (Integrated) Climate Change Adaptation, ACCER, Main Campus, Vellanikkara, KAU P.O., Thrissur - 680 656.**

PROSPECTUS 2014-15

A. Introduction

Two M.Sc. (Integrated) courses of 5 year duration are offered by the KAU in Biotechnology and Climate Change Adaptation for Plus Two students offered by Kerala Agricultural University:

1. M.Sc. Biotechnology (Integrated) - No. of Seats - 20

The M. Sc. Biotechnology (Integrated) course was started during 2009-10 with budgetary support from Govt. of Kerala with the objective of improving the quality of biotechnology education in the state. The duration of the course is 5 years (after Plus two). The course will be conducted in multi-institutional mode, involving institutions engaged in biotechnology teaching / research, to facilitate the utilization of highly competent manpower and facilities. This course is offered at the College of Agriculture, Vellayani, Thiruvananthapuram.

Basic Biology, Cell Biology, Molecular Biology, Genetics, Physics, Organic chemistry, Biochemistry, Mathematics, Statistics, Computer science, Genomics, Proteomics, Immunology, Enzyme technology, Computational biology, Agricultural biotechnology, Industrial biotechnology, Environmental biotechnology, Bio-safety, Bioethics and IPR will be the essential areas covered by the course.

2. M.Sc. Climate Change Adaptation (Integrated) – No. of seats - 20

The M.Sc. (Integrated) Climate Change Adaptation Programme was started during 2010 and is offered at ACCER, Main campus, Thrissur. This course envisaged to be of high standard, conducted in multi institutional mode, making use of the manpower and facilities of various reputed institutions in the relevant field.

The programme provides ample opportunity for the students to

- understand the processes and activities that influence climate
- analyze and interpret the risks and opportunities associated with climate and climate change and
- make recommendations of future adaption and mitigation strategies.

The programme provides an integrated approach to the analysis of climate change in the context of agriculture and environmental management. The interaction of the atmosphere with the other components of the Earth system, and the economic and policy issues associated with climate change, sustainability, agricultural productivity and food security are central concerns in the response to climate variability and future climate change.

B. Eligibility

a) Biotechnology

Students having passed 10+2 level examination of various boards in India, as well as CBSE or equivalent to 10+2 level examinations with science subjects will be eligible for applying for admission to this course. The student should have secured minimum 60% marks for general category and 50% marks for SC/ST candidates or equivalent grades. Admission will be based on the performance in an entrance examination conducted by the Kerala Agricultural University.

b) Climate Change Adaptation

Minimum eligibility is a pass in Plus Two (with Physics, Chemistry, Biology and Mathematics) examination or equivalent with 60% marks in aggregate for general category and 50% marks for SC/ST

C. Reservation of seats

Reservation of seats shall be governed by the rules of the Kerala State Government.

D. Duration of the programmes

The minimum prescribed duration shall be 10 semesters (five academic years) excluding the period of temporary discontinuance, if any.

E. General notes

1. System of teaching

The course will be conducted in multi-institutional mode, co-ordinated by the Kerala Agricultural University. A core facility as well as core faculty is being established at the Kerala Agricultural University. Conduct of the course in multi-institutional mode will facilitate the utilization of highly competent manpower in specific areas of relevance and make use of the facilities of various institutions.

The courses will be conducted in semester pattern. On an average 18 credits will be taken by a student per semester. Successful completion of 180 credits in the form of various courses, research work and training in the industry/academic institutions will make the students eligible for the integrated M.Sc. Degree at the end of 5th year.

During the first two years all the students will be exposed to fundamental courses. During the third year they will be offered optional as well as specific

courses. During the fourth and fifth years the students will be doing thesis work, along with supporting courses. The medium of instruction will be English.

2. How to apply

Application forms and prospectus are available in the KAU website (<http://www.kau.edu>) in Adobe Acrobat PDF format. The downloaded application should be printed on A4 size paper. The filled in application forms may be submitted along with application fee as detailed below to the Registrar, Kerala Agricultural University, KAU P.O., Thrissur, Kerala - 680 656 so as to reach on or before the date and time indicated in the notification.

3. Application fee:

General category	:	Rs. 750
Scheduled Caste/Scheduled Tribe	:	Rs. 375

Payment of Fees: (Student inside Kerala)

Fee may be remitted at any SBT Branch in the state , to the Kerala Agricultural University Comptroller's SB Account No. 57006546701 maintained at SBT KAU Branch. Main Campus, Vellanikkara and the counterfoil of the remittance slip must be attached with the application form.

Students outside Kerala:-

The application fee shall be paid by way of Demand Draft drawn in favour of the Comptroller, KAU, Vellanikkara payable at the SBT, KAU Campus Branch, Vellanikkara.

N:B Application forms without counterfoils of fees remitted/DD attached will be summarily rejected.

A passport size photograph of the candidate bearing his/her signature should be affixed on the application and admit card in the appropriate place.

4. Enclosures

Each application for admission shall be accompanied with the following:

- a) Counterfoil of fees remitted/ Demand Draft for the application fee as prescribed.
- b) Community Certificate obtained from a Revenue Officer not below the rank of Village Officer in the case of SC/ST candidates.
- c) Attested copies of certificates in proof of age, qualifications, mark list of qualifying examination etc.
- d) One self-addressed stamped (worth Rs. 10/-) envelope of size 23 cm x 10 cm.

Note: Documents sent with the application are not returnable.

5. Last date and time for receipt of filled in application forms:

The filled in Application Form along with the Application Fee and other relevant documents, has to reach the Registrar, Kerala Agricultural University, KAU P.O., Thrissur 680 656, **before 3.00 p.m. on 22.05.2014**

6. Penalty for false information

Any candidate who is found to have willfully or otherwise given any particulars which are false or has suppressed material information or does not satisfy the requisite qualification for admission shall be disqualified. They shall not be allowed to continue on the rolls of the University, if it is detected at any stage of his/her studentship in the University. In case the candidate has already passed out of the University, then the degree awarded by the University will be withdrawn.

7. Rejection of application and disqualification of candidates

Applications received late or defective or incomplete in any manner or which do not contain any of the enclosures specified above are liable to be summarily rejected. Applicants who attempt to canvas or influence the members of the Selection Committee directly or otherwise will be disqualified.

8. Selection

The selection of candidates will be based on an entrance examination conducted by the Kerala Agricultural University. The questions will be objective type and based on the syllabus (Physics & Chemistry, Biology/Maths and General Knowledge) for the Kerala Entrance Examination 2014 of the Commissioner for Entrance Examination, Kerala.

The Entrance Examinations will be held in Thrissur, and at Thiruvananthapuram, Kerala. If there are more candidates, the examination will be held at three places, namely College of Agriculture, Thiruvananthapuram, KAU Main campus, Thrissur on the dates mentioned below as per Indian Standard Time (**IST**).

Allotment of the course will be based on the preference by the candidate & rank in the common entrance exam.

22/06/2014	Sunday	10.00 a.m. to 12.00 Noon.	Paper-I –Physics & Chemistry
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22/06/2014	Sunday	2.00 p.m. to 3.20 p.m.	Paper–II Mathematics/Biology & General Knowledge
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Paper I, consists of Chemistry and Physics with 60 questions each. Paper II, consists of either Mathematics or Biology with 60 questions, and General Knowledge with 20 questions. Paper I, with duration of 120 minutes, will have 120 questions carrying a total of 120 marks. Paper II, with duration of 80 minutes will have 80 questions carrying a total of 80 marks. The total marks for the entrance examination will be 200 (120+80). Those who fail to secure at least 40 marks (20 %) will not be ranked.

9. Announcement of results

A list of candidates selected for admission and the dates on which they have to remit the fees and join the course will be published on the notice board at the University headquarters, Vellanikkara and through the KAU Website. The rank listed candidates are directed to visit the KAU website and check their email habitually to follow the procedures of admission.

10. Admission

Candidates selected will be admitted to the course as per their option and merit, provided they pay the prescribed fees in full on the due dates fixed.

Tuition fee: (i) Rs. 30,000 per semester for M.Sc. Biotechnology (Integrated)
(ii) Rs. 50,000 for M.Sc. Climate Change Adaptation (Integrated).

In the case of those candidates selected for admission who have not paid the fees in time and not joined the course on the date fixed, their claims for admission will be cancelled without notice and the seat thus becoming vacant will be filled up with next eligible candidates, if any, in the rank/wait list.

Candidates should produce the original certificates in proof of age, qualifications, Transfer Certificate, Conduct certificate, medical fitness certificate obtained from any Medical Officer not below the rank of Civil Surgeon at the time of admission.

11. Residential facilities

Limited hostel facilities are available. This will be provided to the students, depending on availability. Those who do not get admission in hostel may make their own arrangements for stay.

12. Exemption from payment of fees

Scheduled Caste and Scheduled Tribe candidates may be given exemption from payment of fees subject to the grant of concession by the Scheduled Caste Development Department, Govt. of Kerala. However, they will have to pay College and Hostel caution deposits which are refundable. They should also submit applications for concession in the prescribed form.

No exemption from payment of fees will be granted to candidates who are likely to be eligible for any other type of fee concession. But the fees paid by them will be reimbursed if and when the concessions are sanctioned.

The High Court of Kerala will be the only judicial body to decide on the disputes arising if any, in the matter of admission.

The prospectus is subject to further modification/addition as may be considered necessary by the University and will be issued as executive orders/notifications and the students are liable to obey the rules and regulations so amended or modified.

REGISTRAR

TIME SCHEDULE FOR INTEGRATED MSc COURSES - 2014

1	Issue of Admission notification	16.04.2014
2	Last date for receipt of filled in application	22.05.2014, 03.00 P.M.
3	Issue of memo for written examination	12.06.2014
4	Written examination	22.06.2014 10.00 A.M.
5	Publishing Rank list	22.07.2014
6	Admission at KAU Headquarters	19.08.2014 11.00 A.M.
7	Date of Registration & Classes begins on	01.09.2014

REGISTRAR



KERALA AGRICULTURAL UNIVERSITY

VELLANIKKARA – 680 656

Application for Admission to M.Sc. Biotechnology (Integrated) and M.Sc. Climate Change Adaptation (Integrated) Course - 2014-2015

[Read the Prospectus and instructions before filling the application]

Roll No.....
(To be given by Office)

I certify that the photograph is that of Sri./Smt..... Signature of the Identifying Officer..... Name : Address:	Affix recent passport size photograph
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1 Name of applicant in BLOCK LETTERS (initials last) Please state Male or Female	
2 Address of the applicant with district and PIN code	
3 Telephone Number & Mobile Number	
4 E-mail id:	
5 Date of birth in Christian Era (dd/mm/yy)	
6 Name, address and occupation of parent/guardian Telephone number if available, with STD code	
7 Have you produced Nativity Certificate to show that you are an Indian citizen of Kerala origin? Please write 'Yes' or 'No'	
8 Do you belong to any Scheduled Caste or Scheduled Tribe? (Please see Appendix I). Please write 'Yes' or 'No'. If 'Yes', please write the name of the Community	
9 Do you belong to any community listed under Other Eligible Community? If yes, please write the name of the Community	Yes/No Community:
10 Do you claim reservation under Socially and Educationally Backward Classes as per GO(P)208/66 dated 2/5/1966?	Yes/No Category : Community:
11 Do you claim reservation under sports quota? Write 'Yes' or 'No.'	

<p>12 Details of qualifying examinations passed and marks secured</p> <p>(a) Name of the examination passed</p> <p>(b) Register No. and Year</p> <p>(c) Name of University or Board</p> <p><i>Details of marks secured</i></p>		
<p style="text-align: center;">Subject</p>	<p style="text-align: center;">Maximum Marks</p>	<p style="text-align: center;">Marks secured</p>
<p>Part I - English</p> <p>Part II - Additional Language (Mention the language)</p> <p>Part III - Optional Subjects:</p> <p>1.</p> <p>2.</p> <p>3.</p> <p>4.</p>	<p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p>	<p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p>
<p>Total for Part III Optionals:</p>		
<p>Grand total</p>		
<p>11. Percentage of aggregate marks (Part I, II and III taken together in the qualifying examination</p>		
<p>12. Details of application fee remitted</p> <p>1. Bank Chalan</p> <p>2. DD No. , Date and Name of Bank Branch (in case of students from outside Kerala)</p>		
<p>13. Give the order of preference of courses Biotechnology/Climate Change Adaptation</p>	<p>(1)</p> <p>(2)</p>	
<p>14. Subject preferred for paper II of the Entrance Examination (Please tick appropriate options)</p>	<p>Mathematics/Biology</p>	
<p>15. Preference of Examination Centre</p>	<p>Trivandrum/Thrissur</p>	

DECLARATION

- (i) I hereby declare that I have fully read the conditions for admission to the Course as contained in the Prospectus and agree to abide by these.
- (ii) I hereby solemnly and sincerely affirm that the statements made and information furnished in my application form and also in the enclosures there to submitted by me are true. Should it however be found that any information furnished therein is untrue in material particular, I realise that I am liable for criminal prosecution and also agree to forego my seat.

Place :

Date :

Signature of Guardian/Parent

Signature of the Applicant



KERALA AGRICULTURAL UNIVERSITY

Main Campus, KAU P.O., Thrissur, Kerala - 680 656

Admit Card to the Entrance Examination for M.Sc. Biotechnology (Integrated) and M.Sc. Climate Change Adaptation (Integrated) Course – 2014-2015

(To be filled up by the candidate in block letters and sent along with the application)

No.

CENTRE OF EXAMINATION:
(Thiruvananthapuram/ Thrissur)

DATE OF EXAMINATION:.....

Time: 10 am to 12 Noon Paper I
2 pm to 3:20 pm Paper II

Name of the candidate

Space for affixing
candidate's passport
size photograph

Signature of the candidate

The candidate should
affix his/her signature
on the photograph

Name of Attesting Officer:

Designation:

(Seal)

Course applied for:

Please tick the appropriate Box	
M.Sc Biotechnology (Integrated)	M.Sc Climate Change Adaptation (Integrated)

<p>Name:</p> <p>Full Address:</p>

(1) CERTIFICATE TO PROVE NATIVITY*

(For Keralites only)

(Candidate should invariably furnish any one of the following certificates as applicable to him/her to prove Nativity)

**1(A) THE TRUE COPY OF THE RELEVANT PAGE OF THE SSLC BOOK
OF THE CANDIDATE AS PROOF OF PLACE OF BIRTH IN KERALA**

OR[@]

1(B) COURSE CERTIFICATE

(To be issued by the Heads of Schools in Kerala State)

Certified that Shri/Smt/Kumari

..... an applicant for admission to M.Sc.

Integrated Course in Biotechnology/Climate Change Adaptation Course - 2014 who is the son/daughter of Shri/Smt. has undergone his/her school studies for a period of at least 5 years within a period of 12 years in institution(s) situated in Kerala state.

Place : Signature of the Head of School :

Date : Name and designation :

Taluk :

(SEAL)

District :

1(C) Certificate of Birth / Residence

(To be issued by the Village Officer/Tahasildar in Kerala State)

Certified that Shri/Smt/Kumari

an applicant for admission to M.Sc. Integrated Course in Biotechnology/Climate

Change Adaptation Course - 2014, or his/her father/mother Shri/Smt

.....

House

Village District

..... was born in Kerala.

OR[@]

Certified that the applicant Shri/Smt/Kumari

has been a resident of the Kerala state for a period of at least 5 years within a period of

12 years.

Signature of the Village Officer/Tahasildar

Date :

Name and Designation :

Taluk :

(SEAL)

District :

[@] Strike out which is not applicable

** In the absence of any one of the above certificates to prove the Nativity of the candidate, the application will be rejected.*

(2) (a) COMMUNITY CERTIFICATE

(For Scheduled Castes & Scheduled Tribes candidates)

This is to certify that Shri./Smt./Kumari
.....son/daughter of Sri/Smt.....
House....., Village/Town
Taluk, District of
Kerala State belongs to the Caste/*Tribe,
which is recognized as a Scheduled Caste/Scheduled Tribe under:-

Certified that Shri/Smt/Kumari S/o
or D/o House
Village Taluk
District is a member of Malai Araya Christian family converted to
Christianity from Hindu Malai Arayan Community, which is included in the list of Scheduled Tribes.

2. Shri/Smt/Kumari and
his/her* family ordinarily reside(s) in
Village/Town of District of Kerala State.

Signature of Tahasildar :

Name :

Place :

Date : (OFFICE SEAL)

** Please delete the words which are not applicable*

- Note: 1. The term "ordinarily resides" used here will have the same meaning as in Section 20 of the Representation of the Peoples Act, 1950
2. X'ian converts from S.C. who have subsequently embraced Hinduism should get the following certificate recorded by the 'Tahasildar' below the Community Certificate. 'The certificate is issued after observing the guidelines issued in Government Circular No.18421/E2/87/SC/ST/DD dated 15-12-1987'.
 3. Issue of Community Certificate to Scheduled Caste/Scheduled Tribe will be regulated by Act II of the Kerala (Scheduled Caste & Scheduled Tribe) Regulation of issue of Community Certificate Act, 1996.
 4. Certificate to persons belonging to Malai Arayan Community (S.T.) converted to Christianity should be in this form

(2) (b) COMMUNITY CERTIFICATE

(Certificate required for claiming reservation under the Socially and Educationally Backward Classes/Other Eligible Communities)

Certified that Shri/Smt/Kumari, son/
daughter of Shri/Smt....., House.....
Village, Taluk.....
District of Kerala State,
belongs to Caste
Religion, which is included as Socially and Educationally Backward Class as per GO(P)208/66 dated 2-5-1966 and
subsequent amendments thereof.

Signature of Village Officer :

Place :

Date :

Name :

Note: In case where reservation is sought under 'Latin Catholics other than Anglo Indians', the community certificate should clearly specify that the candidate belongs to 'Latin Catholics other than Anglo Indians'

(3) INCOME CERTIFICATE

നമ്പർ

വില്ലേജ് ഓഫീസ്

തീയതി:

.....ജില്ലയിൽ.....

.താലൂക്കിൽ

.....വില്ലേജിൽ.....

.....വീട്ടിൽ ശ്രീ/ശ്രീമതിസമർപ്പിച്ച.....തീയതിയിലെ

അപേക്ഷയിൽ (*) ഒരു വരുമാന സർട്ടിഫിക്കറ്റ് ആവശ്യപ്പെട്ടിരുന്നു. ടിയാന്റെ വാർഷിക കുടുംബവരുമാനം

.....രൂപയാണെന്ന് പ്രസ്താവിച്ചിട്ടുണ്ട്. എന്റെ അന്വേഷണത്തിൽ ബോധ്യപ്പെട്ടതനുസരിച്ച്

ടിയാന്റെ വാർഷിക കുടുംബവരുമാനം താഴെ കാണിച്ചിരിക്കുന്ന പ്രകാരമാണെന്ന് ഞാൻ ഇതിനാൽ

സാക്ഷ്യപ്പെടുത്തുന്നു. കുടുംബത്തിലെ അംഗസംഖ്യ.....ആണ്. അതിൽ

ജോലിയുള്ളവർ.....പഠിക്കുന്നവർ..... ജോലിയില്ലാത്തവർ.....ആണ്.

ആദായ മാർഗ്ഗങ്ങൾ	ഭൂമിയിൽ നിന്നുള്ള ആദായം	ശമ്പളം/പെൻഷൻ (കുടുംബ പെൻഷൻ ഒഴികെ)	കച്ചവടം	കുലിവേല	വിദേശത്ത് ജോലിയുള്ളവരുടെ വരുമാനം	വാടക	മറ്റിനം	ആകെ
അംഗങ്ങൾ								
അച്ഛൻ								
അമ്മ								
മക്കൾ								
1								
2								
3								
4								

അക്കത്തിൽ
മൊത്തത്തിലുള്ള തുക

അക്ഷരത്തിൽ
മൂന്നുകുട്ടികളിൽ കുടുതലുള്ളവരുടെ കാര്യത്തിൽ കുടുതൽ കുട്ടികൾക്ക് കുറവ് ചെയ്യേണ്ട തുക

അക്കത്തിൽ
ബാക്കി
അക്ഷരത്തിൽ

ആഫീസ് മുദ്ര ഒപ്പ്

(*) ആരുടെ ആവശ്യത്തിനെന്ന് വ്യക്തമാക്കണം പേര്, ഉദ്യോഗപ്പേര്