



INSTITUTE OF HUMAN RESOURCES DEVELOPMENT
(Established by Government of Kerala)

**Admission to Post Graduate Programmes
(M.Sc. Electronics & Computer Science) in
the Colleges of Applied Sciences managed by IHRD
and affiliated to Mahatma Gandhi University during 2016–2017**

PROSPECTUS

2016-17

**College of Applied Sciences, Kattappana
College of Applied Sciences, Mallappally
College of Applied Sciences, Peerumade
College of Applied Sciences, Puthuppally
College of Applied Sciences, Thodupuzha**

*(Prospectus issued for previous years are not valid for 2016-17)
(Application and prospectus are available in web site: www.ihrd.ac.in)*

INSTITUTE OF HUMAN RESOURCES DEVELOPMENT

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Admission to Post Graduate Degree Programmes in Computer Science and Electronics in the seats to be filled up by College of Applied Sciences managed by IHRD and affiliated to Mahatma Gandhi University, 2016-17

The Institute of Human Resources Development (IHRD) is a Government of Kerala undertaking established mainly for the development of manpower in the field of Electronics, Computers, Information Technology and allied areas. With a view to provide advanced skills in the above fields, the Institute offers Post Graduate courses in Computer Science and Electronics in Applied Science Colleges during the academic year 2016-17. The above courses are semester courses spread over a period of 2 years under M.G. University. The scheme & syllabus for the courses will be as followed in the M. G. University.

1. COLLEGE, COURSE & ANNUAL INTAKE

College	Course	Code	Seats filled by		Total seats
			CAP	college	
1. College of Applied Science, Pulimoottil Building, (Near Mariyil Kalingu), Moolamattom Road, Thodupuzha, Idukki Dist. Phone:04862 228447 casthodupuzha@ihrd.ac.in	1. M Sc Degree in Computer Science	MSc-CS	15	15	30
	2. M Sc Degree in Electronics	MSc-EL	15	15	30
2. College of Applied Science, Peakuzhiyil Building, Mallappally West P O, Kalloooppara, Pathanamthitta Dist. Phone: 0469 2681426 casmallappally@ihrd.ac.in	1. M Sc Degree in Electronics	MSc-EL	15	15	30
3.College of Applied Science, Payyappady P O,Puthuppally, Kottayam, Phone : 0481 2351228 caspayyappady@ihrd.ac.in	1. M Sc Degree in Computer Science	MSc-CS	15	15	30
	2. M Sc Degree in Electronics	MSc-EL	15	15	30
4.College of Applied Science, Madathil Arcade, Erattayar Road, Kattappana, Idukki Dist. Phone: 04868 250160 caskattappana@ihrd.ac.in	1. M Sc Degree in Computer Science	MSc-CS	15	15	30
5. College of Applied Science, PWD Rest House Campus, Kuttikkanam PO, Peerumade, Idukki Dist. Phone: 04869-232373 caspeermade@ihrd.ac.in	1. M Sc Degree in Computer Science	MSc-CS	10	10	20

Note: 1. 50% of the sanctioned strength in each course will be filled by University based on the options exercised by the student through Centralized Allotment Process (CAP) 2016-17. Please refer University website for more information.

2. If the intake is enhanced during the academic year, selection for admission will be made from the candidates who have applied for admission against the prospectus.

2. ELIGIBILITY FOR ADMISSION

The candidate must have all eligibility conditions as prescribed by the University to join the course.

- 2.1 Academic eligibility should be satisfied as one of the last date for submission of academic data. No candidates shall be admitted to the PG degree programme unless he or she possesses qualification and minimum requirement thereof.
- 2.2 If an applicant for admission is found to have indulged in ragging in the past or if it is noticed later, admission shall be denied or he/she shall be expelled from the educational institution.
- 2.3 (1) Candidates should have passed the corresponding degree examination under the 10 +2+3 pattern with one core/main subject and two complementary / subsidiaries subjects from any of the universities in Kerala or any other universities recognized by Mahatma Gandhi University as equivalent there to for admission, subject to the stipulation regarding marks.

OR

(2) Candidates who have passed degree examination with double or triple main subject + or candidates who have passed the degree examination in vocational or specialized programmes are also eligible for admission. However, they have to submit copy of the equivalency/Eligibility criteria from Mahatma Gandhi University, stating that, their qualifying examination is recognized for seeking admission to the relevant PG Degree course(s) as applicable, at the time of admission. This provision is not applicable in the case of those applicants who have passed their qualifying examination from MG University.

Course & Code	ELIGIBILITY FOR M Sc COMPUTER SCIENCE & ELECTRONICS		
	<u>CBCSS Pattern 2009</u>	<u>CBCSS Pattern 2013</u>	<u>Pre CBCSS Pattern</u>
1. MSc Computer Science (MSc-CS)	Graduation in Computer Application (BCA) or B Sc Degree with Mathematics/ Computer Science /Electronics/IT as one of the subjects with not less than CGPA of 2.00 out of 4 in Core Group (Core + Complementary + Open Courses).	Graduation in Computer Application (BCA) or B Sc Degree with Mathematics/ Computer Science /Electronics/IT as one of the subjects with not less than CCPA of 5.00 out of 10 in Core Group (Core + Complementary + Open Courses).	Graduation in Computer Application (BCA) or B.Sc. degree with Mathematics/Computer Science /Electronics /IT as one of the subjects with not less than 50% marks in part III subjects in Part III (Main/Core + subsidiaries / Complementaries).
OR B Tech in Computer Science.			
Note: A weightage of 20% marks scored by the candidate in Part III Core/Main shall be added to the total of Part III for those who have studied Computer Science /Computer Application/ Electronics as Core/Main after standardizing the marks secured for the same to 600.			
	<u>CBCSS Pattern 2009</u>	<u>CBCSS Pattern 2013</u>	<u>Pre CBCSS Pattern</u>
2. MSc Electronics (MSc-EL)	Graduation in Physics / Instrumentation/ Electronics / Electronics with Computer Maintenance /Computer Science / Computer Application / Physics (Electronic Equipment Maintenance)/ Computer Maintenance and Electronics/ BCA with not less than CGPA of 2.00 out of 4 in the Core Group (Core + Complementary + Open Courses)	Graduation in Physics / Instrumentation/ Electronics / Electronics with Computer Maintenance / Computer Science / Computer Application / Physics (Electronic Equipment Maintenance)/ Computer Maintenance and Electronics/ BCA with not less than CCPA of 5.00 out of 10 in the Core Group (Core + Complementary + Open Courses)	Graduation in Physics / Instrumentation/ Electronics / Electronics with Computer Maintenance / Computer Science / Computer Application / Physics (Electronic Equipment Maintenance)/ Computer Maintenance and Electronics/ BCA with not less than 50% marks in part III (Main/Core + subsidiaries / Complementaries).
Note: A weightage of 10% marks scored by the candidate in Part III Core/Main shall be added to the total of Part III core/main for those candidate who have studied B Sc Electronics/ Electronics with computer hardware degrees after standardizing the marks secured for the same to 600.			

2.4 CALCULATION OF INDEX MARKS FOR M Sc COMPUTER SCIENCE & ELECTRONICS

Index mark is calculated after adding / deducting the weightage / bonus marks / handicap marks if any.

Course & Code	Calculation of Index Mark		
	<u>CBCSS Pattern 2009</u>	<u>CBCSS Pattern 2013</u>	<u>Pre CBCSS Pattern</u>
MSc Computer Science (MSc-CS) & MSc Electronics (MSc-EL)	<p>CGPA secured for Part III Core +Complementary courses is taken into account for the calculation of index marks as stated below:- $\{ [CGPA(\text{Core courses}) \times \text{total credit of core courses}] + (CGPA \text{ of complementary course I} \times \text{total credit for complementary courses I} + (CGPA \text{ of complementary course II} \times \text{total credit for complementary courses II}) \} / (\text{total credit for core courses} + \text{total credit for complementary courses})$ -----(A) (A) X 250------(B)</p> <p>(i.e., marks out of 1000 for Core plus complementary)</p> <p>$\{ \frac{CGPA(\text{Core courses}) \times \text{total credit of core courses}}{\text{Total credit for core courses (i.e., marks of Part III Core Standardized to 600)}} \times 25$-(C) The marks thus arrived at is standardized to 1000 i.e., $\frac{\{ (B) + (C) \} \times 1000}{1600}$ ------(D) Index mark = D + weightage + bonus marks – handicap marks, if any</p>	<p>CCPA secured for Part III Core +Complementary courses is taken into account for the calculation of index marks as stated below:- $\{ [CCPA(\text{Core courses}) \times \text{total credit of core courses}] + (CCPA \text{ of complementary course I} \times \text{total credit for complementary courses I} + (CCPA \text{ of complementary course II} \times \text{total credit for complementary courses II}) \} / (\text{total credit for core courses} + \text{total credit for complementary courses})$ -----A) (A) X 100------(B)</p> <p>(i.e., marks out of 1000 for Core plus complementary)</p> <p>$\{ \frac{CCPA(\text{Core courses}) \times \text{total credit of core courses}}{\text{Total credit for core courses (i.e., marks of Part III Core Standardized to 600)}} \times 10$-(C) The marks thus arrived at is standardized to 1000 i.e., $\frac{\{ (B) + (C) \} \times 1000}{1600}$ ------(D) Index mark = D + weightage + bonus marks – handicap marks, if any</p>	<p>a) Marks secured for part III Main + subsidiary for Model I and marks secured for Core + Complementary + Vocational for Model II (standardized to 1000) - ----- (A) b) Marks Secured for Part III main (Model I)/Core papers (Model II) out of 600------(B) c) The marks thus arrived at is standardized to 1000------(C) Index Mark = C + (weightage + bonus marks, if any) – (handicap marks if any)</p>

Note:

- a. 1. Candidates whose degree is accepted as equivalent there to by the M. G. Universities alone are eligible to apply.
 2. No rounding of marks to the nearest whole number shall be done.
 3. Relaxation in marks in the qualifying examination for SC, ST, SEBC, OEC and persons with disability categories should be given as per University rules and regulations.
 4. All doubtful cases of eligibility and qualifications will be referred to the University for clarification. Admission will be offered only after receiving the clarification in such cases within the stipulated time of admission schedule.
- b. 1. The candidate should be a citizen of India .
 2. There will be no restriction with regard to age for admission

3. SELECTION PROCEDURE

3.1. Selection of candidates for admission to Colleges of Applied Science under IHRD will be on institution-wise. Admissions to all the colleges of Applied Science shall be made on the same day. Admission shall be made purely on the basis of the marks obtained by the candidates for the qualifying examination. The ranking marks shall be arrived at as follows:

3.2.PREPARATION OF RANK LIST:

Under Pre - CBCSS pattern, the rank list of P.G degree programmes will be prepared on the basis of the marks obtained in the qualifying examination in part III subjects unless otherwise mentioned, standardized to 1000. The index mark is arrived at after adding/deducting weightage/bonus marks/handicap marks, if any.

Under CBCSS pattern, the CGPA secured for Part III Core group (Core + Complementary courses) unless otherwise mentioned shall be converted into marks out of 1000. The index mark is arrived at after adding /deducting weightage/bonus marks/handicap marks, if any.

Note: Rank list should be prepared as per University rules and regulations.

3.3 Bonus Marks: The Bonus marks will be awarded as follows:

1. Bonus of five marks will be awarded to NCC and NSS candidates for admission to all programs. For NCC candidates the bonus marks will be awarded on the basis of the NCC certificates signed by the Director and issued by the Directorate provided the candidates have secured at least 75% attendance after having participated in NCC activities during the period of study for Undergraduate programs. An additional bonus mark of 3 will be given to 'A' certificate holders and 5 marks each to 'B' and 'C' Certificate holders in proof of their high proficiency.
2. In respect of NSS candidates the bonus marks will be awarded on the basis of NSS certificates signed by the Vice-Chancellor or the Pro-Vice-Chancellor and issued to volunteers who have completed 240 hours of work within a period of 2 years of undergraduate study immediately preceding the P.G programs for which admission sought.
3. A bonus of 15 marks will be awarded to the Ex-servicemen applicants and widows and children of Jawans and Ex-service men seeking admission to the P.G. Programs. Applicants in this category should invariably produce the certificate in support of their claim at the time of admission. The certificate should be obtained not earlier than six months from the last date of submission of application from the military authorities or state/Zilla Sainik Welfare Officer to the effect that the applicant is the son/daughter of ex service man or an ex service man himself/herself. The certificate should clearly show that the benefit of reservation has not been granted earlier to any member in the family. In the absence of the above certificate the claim will not be considered.
4. The benefit of bonus marks can be scored by a candidate only under one category i.e.; either NSS or NCC.
5. Bonus marks will be added only if the candidate has obtained the prescribed minimum qualifying marks in the qualifying examination while calculating the index marks.
6. Deductions: Deduction will be made from the total ranking marks for those candidates who had availed more than one chance in passing the qualifying examination as detailed below:
 - a. Handicap mark of 5 will be deducted from the total rank marks for each additional appearance he/she has taken for completing the qualifying examination. Number of chances means the number of chances for passing any part of the qualifying examination excluding cancellation.
 - b. Wherever letter grades are given for the qualifying examination, the candidate should produce the relevant document so that the grades can be converted into actual marks. In the case of grades where marks range is given, the mid value will be taken for computation of index marks.

Selection of candidates for interview for admission will be on the basis of the information furnished by the candidates in the application form. A copy of the mark list & degree certificate of the qualifying examination duly attested by a gazetted officer should be attached with the application form. Candidates who do not furnish the above documents along with the application form will not be considered for selection.

3.4. The SC/ST/OEC candidates are exempted from payment of prescribed fee on condition that they will submit application for educational concession from the SC, ST and OEC development department in the prescribed form along with supporting documents within 15 days from the date of commencement of regular classes. If they fail to do so, they should pay the prescribed fee. In case the educational concession is not sanctioned by the welfare department, the student is liable to remit the entire fee.

3.5 The candidates shall produce the following documents at the time of interview for admission.

- a. SSLC/Equivalent certificate to prove date of birth
- b. Originals of certificates and mark list of the qualifying examination.
- c. Community/income Certificates, if applicable
- d. Transfer Certificate
- e. Conduct Certificate
- f. Two passport size photographs

4. RESERVATION : All the statutory reservation seats are available will be filled up by the University through the CAP (For more information please refer the prospectus for CAP 2016-17 of the Mahatma Gandhi University).

5. HOW TO APPLY

Application forms and prospectus can be downloaded from the IHRD website www.ihrd.ac.in, and the filled application should be submitted to Principals of the Colleges of Applied Science, (where you desire to secure admission) along with the Registration fee of Rs.300/- (Rs.150/- for SC/ST candidates) either by Cash or Demand Draft(D.D) up to the last date specified by the University. The Demand Draft should be drawn in favour of the Principal of the College concerned. If the filled application is sent to the Principal by post, then it must be accompanied by a D.D. for Rs. 300/- (Rs. 150/- for SC/ST) towards the registration fee, drawn in favour of the Principal of the concerned college.

Application forms for admission to M.Sc. Computer Science/Electronics duly filled up should reach the Principals of the concerned Colleges on or before the last date specified by the University. Self attested copies of qualifying certificate/SSLC certificate/NSS/NCC/certificate claiming reservations (if any) should be attached along with the application form. For applying for admission to more than one college, separate application forms should be submitted to the Principals of the colleges concerned. The application for admission to the M Sc courses will not be accepted in the IHRD Head Quarters or any other associated Institutions. Applications received later than the last date specified by the university will not be accepted on any account.

Note: The registration fee once paid will not be refunded under any circumstances.

6. FEES:-

Sl.	Fees details (per Semester)	For M.Sc Course
1.	Admission fee	Rs. 1,000/-
2.	Tuition fee	Rs. 19,000/-
3.	Student amenities (including Lab/Library/Internet fee etc.)	Rs. 1,500/-
4.	Caution deposit(Refundable)	Rs. 1,000/-

FEE Remittance Schedule	M.Sc
A. First Installment fee for First Semester including caution deposit: <i>(to be paid at the time of admission)</i>	13,000/-
B. Second Installment fee for first Semester: <i>(to be paid during 3rd month of admission)</i>	9,500/-
C. Fee for all other Semesters	20,500/-

Note:

1. *In addition to the fee stated above, the student will have to remit the University affiliation and other fees as notified by the University from time to time, including examination and CV camp fee.*
2. *The PTA fee as recommended by the college PTA concerned will have to be remitted at the time of admission.*

7. Rules for Issue of Transfer certificate & Fee Refund:

The Issue of Transfer certificate & other documents to the students admitted to PG course in the Applied Science Colleges under IHRD will be as per the following rules:-

- a) If a student applies for TC before the commencement of first semester classes, the TC and other documents will be issued with a refund of 90% of Tuition fee paid at the time of admission. All other fees paid at the time of admission are non-refundable except university fee.
- b) If a student applies for TC during the period from date of commencement of classes and date of closure of admission (both days inclusive & irrespective of whether the student has attended any classes or not), TC and other documents will be issued only after clearing the first semester fees. All the fees paid (first semester) at the time of admission are non-refundable.
- c) If a student applies for TC during first year of study after the closure of admission and before the commencement of third semester classes (irrespective of whether the student has attended any classes or not), he/she is required to remit the entire course fee for the current semester and next one semester for the issue of TC and other documents.
- d) If a student applies for TC after the commencement of third semester classes (irrespective of whether the student has attended any classes or not), he/she is required to remit the entire course fee for all the remaining semesters of the course for the issue of TC and other documents.
- e) If a student applies for TC to join higher option allotted by the centralized allotment process of the University, the TC and other documents will be issued as per the university guidelines.
- f) If a student request for transfer to another IHRD College of Applied Science within the same University for the same course he/she should pay processing fee of Rs. 2,000/- towards processing fee. In such case the applicant is eligible to get refund of 75% of tuition fee only.

8. GENERAL

1. Receipt of application will be acknowledged, allotting a register number. The registration number as shown in the receipt should be mentioned in all future correspondence concerning admission.
2. Selection of candidates will be made by the Principals concerned, based on the information furnished in the application.
3. The selection for admission will be provisional subject to verification any information given in the application is found to be false; the candidate will forfeit his/her claim for admission.

4. The list of candidates called for interview will be published in the institution. Selection memo will be send by e mail only. Hence providing valid e mail id and a contact telephone number is mandatory. However, if a student wish to get memo by post, he/she must attach a separate request to the principal along with the application form.
5. The candidates called for interview should bring the originals of all the Certificates on the dates specified at their own expense. TC should be produced within a week from the date of provisional admission.
6. A candidate who does not turn up for the interview as per the Schedule and at the place and time will forfeit his/her chance for admission and will not be considered for any future vacancies for admission irrespective of the rank secured. However, if a candidate is not able to attend the interview on genuine grounds, the parent/guardian or any authorized person can act as a proxy at the risk of the candidate.
7. The candidate seeking admission to the course will have to abide by the campus rules and regulations issued from time to time.
8. The applicants as his/her parent/guardian are required to furnish declaration on the awareness of the provisions of the act in the application form.
9. Any other details not specifically covered by this prospectus will be decided by the undersigned and such decisions will be final.
10. Cell phone will not be permitted in the college premises.

9. RAGGING IS A COGNISABLE OFFENCE AND PUNISHABLE UNDER PROVISIONS OF KERALA PROHIBITION OF RAGGING ACT 1998.

The institution will take stern action against the offenders. The cardinal points contained in the act are furnished below for information of the concerned.

1) SHORT TITLE AND EXTENT

- a) The Act may be called the Kerala Prohibition of Ragging Act 1998
- b) It extends to the whole of the State of Kerala

2) DEFINITION

“Ragging” means display of disorderly conduct, doing any act which causes or is likely to cause physical or psychological harm or raise apprehension or fear or shame or embarrassment to a student in any educational institution and included:-

- a. Teasing, abusing of, playing practical jokes on or causing hurt to such student; or
- b. Asking the student to do any act or perform something which such student will not in the ordinary course willingly do.

3) PROHIBITION OF RAGGING

Ragging within or without any educational institution is prohibited.

4) PENALTY FOR RAGGING

Whoever directly or indirectly commits, participates in, abets or propagates ragging within, or without, any educational institution, shall, on conviction, be punished with imprisonment for a term which may extent two years and shall also be liable to a fine which may extend to ten thousand rupees.

5) DISMISSAL OF STUDENT

Any student convicted of an offence under section (4) shall also be dismissed from the education institution and such student shall not be admitted in any other educational institution for a period of three years from the date of order of such dismissal.

6) SUSPENSION OF STUDENT

- a) Whenever any student or, as the case may be, the parent or guardian or a teacher of an educational institution complains, in writing, of ragging to the head of the educational institution, the head of that educational institution shall, without prejudice to the foregoing provisions, within seven days of the receipt of the complaint, enquire into the matter mentioned in the complaint and, if, prima facie, it is found true, suspend the student who is accused of the offence, and shall, immediately, forward the complaint to the police station having jurisdiction over the area in which the educational institution is situated for further action.
- b) Where, on enquiry by the head of the educational institution, it is proved that there is no substance prima facie in the complaint received under sub-section (1), he shall intimate the fact, in writing, to the complainant.

7) Copy of the prohibition of Ragging Act 1998 will be available in the institution for reference.

1. The applicants as well as his/her parent/guardian are required to furnish declaration on the awareness of the provisions of the Act in the application form.
2. Any other details not specifically covered by this prospectus will be decided by the undersigned and such decisions will be final.
3. Cell phone will not be permitted in the college premises.

Thiruvananthapuram
August 17, 2016

Sd/-
DIRECTOR