

INFORMATION BULLETIN 2010-2011



GOVERNMENT ENGINEERING COLLEGE
BARTON HILL

THIRUVANANTHAPURAM 695035

KERALA, INDIA

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Contents

1	COLLEGE AT A GLANCE	1
1.1	Introduction	1
1.2	Location	2
2	PROSPECTUS	2
2.1	Admission requirements	2
2.1.1	Eligibility for admission to B.Tech degree course	2
2.1.2	Relaxation in marks	3
2.2	College Council	3
2.3	Advisory system	4
2.4	Attendance and leave regulations	4
2.4.1	Medical leave	4
2.4.2	Duty leave	5
2.5	Guidelines regarding educational tour of students	5
2.6	The College Union	6
2.7	Fees	7
2.8	Discipline, conduct and behaviour	7
2.9	Ragging	8
2.10	Prohibition of Mobile phones, Cinematic dances, Fashion shows etc.	11
2.11	Timings	11
2.12	Scholarships and stipends	12
2.13	Dress code	13
2.14	Identity card	13

3	FACILITIES	13
3.1	Laboratories	13
3.2	National Service Scheme (NSS)	17
3.3	Career Guidance and Placement Unit (CGPU)	17
3.4	The IEEE Student Branch	18
3.5	Computer Society of India	19
3.6	Industry-Institute Interaction Cell (IIIC)	19
3.7	Industrial Training	19
3.8	The visiting faculty program	20
3.9	Indian Society for Technical Education (ISTE)	20
3.10	IPR Cell	20
3.11	Free Software Cell	21
3.12	Associations	21
3.13	College Library	22
3.14	Parent Teacher Association	23
3.15	The Women’s Study Unit	24
3.16	The Ladies’ Amenity Center	24
3.17	College bus	25
3.18	Alumni Association	25
3.19	Staff Club	25
3.20	Grievance Redressal Committee	25
4	KERALA UNIVERSITY REGULATIONS	25
4.1	Conditions for admission	26
4.2	Duration of the course	26
4.3	Eligibility for the degree	26

4.4	Subjects of study	27
4.5	Evaluation	27
4.5.1	Continuous assessment (CA)	27
4.5.2	End semester university examinations	28
4.6	Letter grades	29
4.7	Grade Point Average (GPA) and Cumulative Grade Point Average (CGPA)	30
4.8	Minimum for a pass	31
4.9	Improvement of grades	31
4.10	Classification of successful candidates	32
4.11	Educational tour	33
4.12	Revision of regulations	33
4.13	Recognition and matriculation	33
4.14	Condonation of shortage of attendance	35
4.15	Cancellation of examination	36
4.16	Guidelines for revaluation of answer books of university	37
4.17	Scrutiny of answer books	37
4.18	Confidential reporting of marks	38
4.19	Transfer of students (Inter college and inter university)	38
4.19.1	Transfer from one College to another (only for Semester three)	38
4.19.2	Inter University Transfer (only for Third Semester)	38
4.19.3	Combination of Attendance	39
4.20	Readmission rules	39
4.21	Migration to other universities	40
4.22	Fee details	40

5	CURRICULUM AND SCHEME OF EXAMINATION	41
5.1	B.Tech Degree Course 2008 Admission	41
5.1.1	Electrical and Electronics Engineering	43
5.1.2	Electronics and Communication Engineering	47
5.1.3	Information Technology	52
5.1.4	Mechanical Engineering	57
6	Academic Calender	65
7	Members of Staff	65
7.1	Department of Electrical Engineering	66
7.1.1	Teaching	66
7.1.2	Technical	66
7.2	Department of Electronics and Communication Engineering	67
7.2.1	Teaching	67
7.2.2	Technical	68
7.3	Department of Information Technology	69
7.3.1	Teaching	69
7.3.2	Technical	70
7.4	Department of Mechanical Engineering	71
7.4.1	Teaching	71
7.4.2	Technical	72
7.5	Department of Civil Engineering	73
7.6	Department of Mathematics	73
7.7	Department of Chemistry	73
7.8	Department of Physical Education	73

7.9	Administrative Staff	74
7.10	Library Staff	77
8	ENGINEERING COLLEGES IN KERALA	78
8.1	Under the Directorate of Technical Education (DTE)	78
8.1.1	Government	78
8.1.2	Aided	78
8.2	Under The Kerala Agricultural University (KAU)	79
8.3	Self-Financing Colleges Under The Institute of Human Resource Development (IHRD)	79
8.4	Self-Financing Colleges Under The Lal Bahadur Sastri Centre For Science and Tech- nology (LBS)	80
8.5	Self-Financing Colleges Under The Co-operative Academy of Professional Educa- tion (CAPE)	80
9	ANNEXURE	81
9.1	Application for Leave	81
9.2	Application for Duty Leave	81
10	IMPORTANT TELEPHONE NUMBERS	81

1 COLLEGE AT A GLANCE

1.1 Introduction

Government Engineering College, Barton Hill was established by the Government of Kerala in the academic year 1999-2000. Within a short span of ten years since inception, the college has achieved notable academic excellence. The college is affiliated to the University of Kerala. It is under the administrative control of the Director of Technical Education, Government of Kerala.

The college was established in the month of November 1999 on the land donated by His Highness Sri.Chithira Thirunal Balarama Varma, the last ruling Maharaja of the princely State of Travancore. The college started its functioning in the buildings of the Barton Hill Girl's High School, Kun-nukuzhy which is now defunct. The first principal of the college was Prof. G.Jayasankar and Prof. K. P. Geetha is the present Principal of the college.

The college now offers four full time B. Tech. degree courses. They are

1. Electronics and Communication Engineering
2. Mechanical Engineering
3. Information Technology
4. Electrical and Electronics Engineering

The duration for the above courses is four years. Each of them has an annual intake of sixty students.

The faculty members are from the pool of Professors, Assistant Professors and Lecturers under the Department of Technical Education, who are arguably the best in the state. It is the same pool which provides the faculty to all the nine Government Engineering Colleges in the State. The 50 strong faculty team of the college consists of 7 Ph.D holders and 26 PG degree holders. Admission to this college is done through the Common Admission Procedure (CAP) based solely on the rank secured in the Common Entrance Examination (CEE) conducted by the Government of Kerala. This college is the choice of the top rank holders of the CEE. All the students need to pay the fees only at the Government rate.

The alumni of the college have already secured their places in the B. Tech. rank list of Kerala University and in the top sections of all India GATE rank lists. The alumni of the college have also secured admissions to top research institutions and business schools including foreign universities IITs, and IIMS . The placement record of the college has been phenomenal with majority of the students having received job offers to reputed firms from the campus itself.

1.2 Location

The campus is situated in the heart of Thiruvananthapuram city at a walking distance from PMG junction. This makes GEC Barton Hill one of the easiest accessible engineering colleges in the State. It is 3.5 km away from Trivandrum Central railway station. The nearest bus station is the KSRTC Vikas Bhavan bus stand which is only half a kilometer away.

2 PROSPECTUS

2.1 Admission requirements

2.1.1 Eligibility for admission to B.Tech degree course

- (a) A pass in the Higher Secondary Examination of the Department of Higher Secondary Education, Vocational Higher Secondary Examination of Department of Vocational Higher Secondary Education, Government of Kerala or examinations recognized equivalent thereto, with 50% marks in Mathematics separately and 50% marks in Physics, Chemistry and Mathematics put together are eligible for admission with relaxation for SC/ST/SEBC candidates.
- (b) A diploma in engineering awarded by the Board of Technical examination, or an examination recognized equivalent thereto, by the State Board of Technical Education undergoing an institutional course of at least 3 years, securing a minimum of 50% marks in the final diploma examination.
- (c) Applicants should have completed 17 years of age as on the 31 December. No relaxation of the minimum age will be allowed. There is no upper age limit.
- (d) In the case of nominees of Government of India, NRI candidates and nominees to the Reciprocal Quota seats, who are selected on the basis

of marks in the qualifying examination, 50% marks in Mathematics, Physics and Chemistry put together (AICTE stipulation) are required. For Diploma holders 60% marks in the final Diploma examination is required. The relaxation of marks mentioned in clause below given to candidates belonging to SEBC, SC/ST is applicable here also.

2.1.2 Relaxation in marks

For all courses, candidates belonging to socially and educationally backward classes (as per GO(P) No.208/66/Edn. dated 2.5.1996 and amendments thereof), with a total annual family Income up to Rs. 4.5 lakhs will have a relaxation of 5% marks (free/payment seats) i.e 45% marks in the case of Mathematics and 45% marks in the case of optional subjects put together. The scheduled castes and scheduled tribes candidates need only a pass in the qualifying examination.

Candidates, who have passed their qualifying examination from outside the state of Kerala, shall produce the certificate of recognition and equivalency of the qualification, from anyone of the universities in Kerala, at the personal appearance/interview.

Candidates who have appeared for the Plus-Two or the equivalent examination/diploma in Engineering will also be permitted to take the entrance examination provisionally. The candidates should have appeared for the qualifying examination before taking the entrance examination and such candidates become eligible for admission only if they acquire the required academic eligibility conditions in the appeared examination itself.

2.2 College Council

The College Council consists of the Principal, the heads of the engineering departments, the senior most among the science faculty and Physical Education, the administrative assistant and the staff advisor. The Principal is the ex-officio president the council and the secretary is appointed by the council.

The general administration of the college is by the Principal subject to the control of the Director of Technical Education. However, some of the general administrative work of the college may be distributed among the members of the college council to be done under the general supervision

of the Principal. The council is empowered to consider the report on any question concerning accommodation, courses of instruction or rules of discipline referred to it by the Principal. However, it shall not interfere in any manner with the general administration of the college, which is invested in the Principal.

2.3 Advisory system

A staff member will be assigned to each batch of students as their group adviser. The group adviser will maintain a dossier of personal details of all the students under him/her and will guide the students during his/her course. A senior staff advisor will coordinate the group advisors.

2.4 Attendance and leave regulations

Students are expected to attend all classes without fail. If for unavoidable reasons, leave of absence is required, permission from competent authority should be taken as given under.

Application for ordinary leave should be submitted to the group adviser concerned who is competent to sanction leave up to a maximum of 3 days at a time. For periods beyond three days at a time, the Heads of Departments will be sanctioning authority. Applications for ordinary leave will be considered only if submitted not later than three days from the date of return from leave.

2.4.1 Medical leave

Students can apply to the Head of Department through the Group Adviser for leave on medical grounds, within three days of working days of returning to the college after the leave. A medical certificate should be attached with the application. The students should keep medical leave application duly sanctioned. In the event of a student falling short of attendance at the end of a semester, condonation of shortage of attendance will be recommended only if they produce record to prove that leave had been applied for and granted in time.

2.4.2 Duty leave

Students are eligible for duty leave on recommendation from the concerned authority if they perform certain kinds of duty for the college like representing the college in sports and games and involving in the college union and association activities. Duty leave can be recommended only by the faculty members who are authorized to do so. Duty leave should be submitted to the Principal, or the designated authority, preferably before the duty is performed or soon after returning from duty, but not later than three working days. However, for exceptional cases, such as representing University / State Athletic events, prior permission of the Principal should be obtained to get duty leave in excess of 10%.

2.5 Guidelines regarding educational tour of students

1. The students may go on one educational tour preferably after the fourth semester course and submit a tour report.
2. The tour proposals should reach the office (Academic Section) at least 3 weeks before the commencement of the tour.
3. The tour may be conducted during the vacation or on holidays taking not more than 5 working days combined with the vacation/holidays, if required. (The total distance to be traveled should not exceed 2000 kilometers.)
4. The tour period shall be considered as part of the working periods of a semester.
5. Details of Industries/Technical/Research Organizations proposed to be visited should be indicated in the tour program.
6. For each group of 20 students one staff should accompany the students. If girl students are participating the tour, one lady staff member should accompany the team.
7. If SC/ST students are participating in the study tour, their name should be specified clearly.
8. Tour programs duly signed and recommended by HOD will only be considered.
9. Written consent of the parent is essential for all students who participate in the tour.
10. The designation of the escorting staff members should be indicated.
11. The distance, date of travel, mode of travel, boarding and lodging details etc. should be clearly indicated in the tour programme.

12. Tour program should be submitted in triplicate.
13. The names of students with address and phone/mobile number should be indicated in the tour program.

The tour proposal which does not satisfy the above mentioned guide lines will not be entertained.

2.6 The College Union

The college has a student's union. The objectives of the college union are

1. to train the students of the college in the duties, responsibilities and rights of citizenship.
2. to promote opportunities for the development of character, leadership, efficiency, knowledge and the spirit of service among the students.
3. to encourage sports, arts and other cultural, educational and recreational activities which are incidental and conducive to the above objectives.
4. to work for the union, the term of which is generally one year from the date from which the union assumes office or till the date of the election to the union in the subsequent year.

The union has a union council comprising of the following office bearers.

1. The president of the union - Principal of the college (ex-officio)
2. The staff adviser nominated by the President
3. The Chairman
4. The Vice- Chairman
5. The General Secretary
6. Two Lady Representatives
7. The Counselor / Counselors to the Kerala University
8. The Secretary, Arts Club
9. The Chief Student Editor of the College Magazine.
10. The General Captain of Sports and Games.
11. The Secretaries of the various sectional Associations
12. One representative from every class (year wise).

The office of the Vice Chairman shall be reserved for lady students. The offices (2) to (9) given above shall be filled by the election by all students

of the college. The offices(10) and (11) by election by the students of the particular association or class as the case may be.

There shall be an Executive Committee for the union as approved by the Kerala University.

2.7 Fees

Admission fee (only for first admission)	: Rs. 150
Tuition Fee	: Rs. 4000
Special fee (Revenue)	: Rs. 1200
Caution deposit	: Rs. 1000
Recognition fee	: Rs. 300
Special Fee(PD)	: Rs. 155
Special Fee (University)	: Rs. 665
Matriculation fee	: Rs. 100
Migration Fee (other universities)	: Rs. 275
Eligibility Fee	: Rs. 200
Bus and Internet fee (first year students only)	: Rs. 500

2.8 Discipline, conduct and behaviour

1. All students should dress properly and neatly, befitting an engineering student.
2. The behaviour of the students, both within and outside of the college premises should be decent and befitting a professional institution.
3. The students shall move silently when proceeding from one class to another so as not to disturb classes at work.
4. No student shall leave the class before the class is dispersed, without the permission of the teacher in charge of class.
5. Students are prohibited from organizing or attending meetings in the college, distributing notice and collecting money for any purpose without the permission of the Principal.
6. Any student :
 - who is persistently insubordinate
 - who is habitually irregular in attendance or inactive to his work in the class

- who is repeatedly or willfully mischievous, or obscene in word or act
- who is guilty of fraud or malpractice at examinations
- who indulges in movements which lead to communal ill feelings or enmity
- who indulges in ragging junior students,

will be liable for punishment according to the recommendation of the college council.

7. Students must work quietly while in library or spend time in such a way as not to cause any interference with the work of others.
8. Scribbling or etching on drawing boards and desks and writing on the wall etc. are strictly prohibited.
9. Students are prohibited from displacing articles or furniture from their proper places in the classrooms or laboratories.
10. Under any circumstances, no student or staff or outsider is permitted to enter the classroom while classes are going on, without the permission of the staff member concerned.
11. All students should have their identity card with them and should produce the same for inspection.
12. They shall switch off the mobile phones in class rooms/ library / laboratories. The misuse of mobile phone will be viewed seriously and will lead to legal actions.
13. Mobile phones and other electronic gadgets are not permitted inside examination halls.

2.9 Ragging

Ragging in any form is prohibited and any incidence of indulging in ragging will be reported to the police. Ragging is a non bailable offence. Ragging may also attract punishment as per section 4 of the “The Kerala Prohibition of Raggig Act 1998” which leads to imprisonment, for a term of maximum 2 years and a fine for ten thousand rupees in conviction.

Ragging: - Ragging constitutes one or more of any of the following acts:

- i. Any conduct by any student or students whether by words spoken or written or by an act which has the effect of teasing, treating or handling with rudeness to a fresher or any other student.

- ii. Indulging in rowdy or undisciplined activities by any student or students which causes or is likely to cause annoyance, hardship, physical or psychological harm or to raise fear or apprehension thereof in any fresher or any other student.
- iii. Asking any student to do any act which such student will not in the ordinary course do and which has the effect of causing or generating a sense of shame, or torment or embarrassment so as to adversely affect the physique or psyche of such fresher or any other student.
- iv. Any act by a senior student that prevents, disrupts or disturbs the regular academic activity of any other student or a fresher.
- v. Exploiting the services of a fresher or any other student for completing the academic tasks assigned to an individual or a group of students.
- vi. Any act of financial extortion or forceful expenditure burden put on a fresher or any other student by students.
- vii. Any act of physical abuse including all variants of it: sexual abuse, homosexual assaults, stripping, forcing obscene and lewd acts, gestures, causing bodily harm or any other danger to health or person.
- viii. Any act or abuse by spoken words, emails, posts, public insults which would also include deriving perverted pleasure, vicarious or sadistic thrill from actively or passively participating in the discomfiture to fresher or any other student.
- ix. Any act that affects the mental health and self-confidence of a fresher or any other student with or without an intent to derive a sadistic pleasure or showing off power, authority or superiority by a student over any fresher or any other student.

A “**Fresher**” means a student who has been admitted to an institution and who is undergoing his/her first year of study in such institution.

Actions will be taken against students for indulging and abetting ragging depending upon the nature and gravity of the offence as established. The possible punishments for those found guilty of ragging at the institution level are any one or any combination of the following:-

- (i) Cancellation of admission
- (ii) Suspension from attending classes
- (iii) Withholding/withdrawing scholarship/fellowship and other benefits
- (iv) Debarring from appearing in any test/examination or other evaluation process
- (v) Withholding results
- (vi) Debarring from representing the institution in any regional, national or international meet, tournament, youth festival, etc.
- (vii) Suspension/expulsion from the hostel
- (viii) Rustication from the institution for period ranging from 1 to 4 semesters
- (ix) Expulsion from the institution and consequent debarring from admission to any other institution.
- (x) Collective punishment: when the persons committing or abetting the crime of ragging are not identified, the institution shall resort to collective punishment as a deterrent to ensure community pressure on the potential raggers.

In case of ragging, you may directly contact in person or over phone to your staff advisor or any one of the following persons:

- a. Principal : Prof.K.P.Geetha
- b. HoD -EC : Prof. K.C.Raveendranathan
- c. HoD -IT : Prof. S. Krishnankutty
- d. HoD -ME : Dr. G. Ramachandran
- e. HoD -EEE : Prof. Mayadevi

24 Hours Help-line

- Toll free number : 1800-180-5522
- Helpline Number : 9895855239
- District Legal Service : 0471 2595173
0471 3257335
- e-mail : helpline@antiragging.net

2.10 Prohibition of Mobile phones, Cinematic dances, Fashion shows etc.

- Ref:-
1. GO (Rt) No.346/05/H.Edn dated 1-3-2005
 2. Go (Rt) No.1102/05/H.Edn dated 24-06-2005
 3. Govt. Circular No.30115/K3/2009/ H.Edn dated 10-2-2010

As per the vide references cited above, Government have given specific instructions to restrict the use of mobile phones and prohibit fashion shows and vulgar dances in the campuses. Accordingly institutional level Ethics committee has been constituted with the Principal as Chair person. In compliance with the order of Hon'ble High Court of Kerala and the instructions issued by the Government a surprise inspection squad is also constituted in the institution to ensure the compliance of instructions issued. The squad is empowered to conduct surprise inspections in the campus and will furnish reports to the principal and Ethics Committee for further necessary action. As per the instructions given by the Government, the Ethics committee will forward monthly reports to the District level committee that chaired by the District Collector. The State level committee with Hon'ble Minister for Education as chair person will review the reports bimonthly and issue necessary orders.

In these circumstances, all are directed not to bring Mobile phones with camera or ordinary phone in switch on position to the campus. No excuses will be entertained.

Also, the use and possession of mobile phones, pagers, programmable calculators, digital diaries and any other transmitting electronic devices are not to be allowed inside the examination halls. Any violation of this stipulation will be treated as malpractice.

2.11 Timings

The college will function from 9 AM to 4 PM for all semesters, with one hour break from 12 noon to 1 PM for lunch. On fridays the after noon session will starts at 2 PM. Saturdays and sundays are usually holidays for the college.

2.12 Scholarships and stipends

National Scholarship Scheme

In order that no really brilliant student is prevented on the ground of poverty alone from pursuing an academic career, Government of India have formulated a National Scholarship Scheme, which will be awarded on the basis of the marks in the School Leaving examination, Higher Secondary examination or the first Degree examination. The award will be limited to scholars, the income of whose parents does not exceed Rs. 2,50,000 per year.

Merit scholarship for the children of primary and secondary school teachers

This scholarship is awarded based on the matriculation or equivalent examination and the higher secondary examination.

Merit Scholarship

District Merit Scholarship (DMC) based on SSLC marks, Rs. 4000 per year, University Merit Scholarship (UMS) based on HSC marks, Rs. 2000 per year, are also available.

Government of India Post Metric Scholarship

This is a Government of India scholarship based on economic criteria of students.

Government of Kerala National Loan Scholarship Schemes

This is available on the basis of marks obtained in the qualifying examination.

Interest free repayable loan scholarship by Government of Kerala

This scholarship is given by the Government of Kerala to students of engineering institutions based on marks obtained in the qualifying examinations.

Financial assistance to the students belonging to fisherman community for higher studies

This scholarship is given by the Government of Kerala to students belonging to fisherman community.

Educational concession to the students belonging to backward community

Full fee concession, Lump sum grant for purchase of books and dresses,

pocket money of Rs. 45 per month and monthly stipend or boarding and lodging charges.

Converted to Christianity from Scheduled Caste and Scheduled Tribes and other eligible communities

Full fee concession, monthly stipend of Rs.180 and half the lump-sum grant sanctioned to scheduled caste students for purchase of books and dresses. Actual boarding and lodging charges will be paid to the students if they are residing in the hostels attached to the professional colleges.

All students whose parent's annual income does not exceed Rs. 42,000 are eligible for fee concession under KPCR scholarships.

2.13 Dress code

All students must dress neatly. When they come to laboratories and workshops, they would wear blue pants and slacks. In addition, they have to wear shoes. Loose chappals and the like will not be permitted.

2.14 Identity card

An identity card with photograph will be issued to all students. Students must carry the same always when they come to the college and must produce the same on inspection.

3 FACILITIES

3.1 Laboratories

A Mechanical Engineering

- (a) Software laboratory: Provides practical training in advanced programming languages such as C and C++, AutoCAD, Solid edge, ANSI, IDEAS, Designing, Modelling and analysis, Internet facilities.
- (b) Heat and Mass transfer laboratory: The lab is equipped with various experimental setups like, composite wall, metal rod, lagged pipe, forced convection, free convection, blower and multistage compressors.
- (c) Metrology and Instrumentation laboratory: It is equipped with modern instruments like sine bar, profile projector, metrological microscope, tool makers microscope etc.

- (d) Automobile model room: Scooter engine with transmission system, differential unit, clutch unit, gear box etc.
- (e) Basic mechanical engineering workshop facilities include fitting, carpentry, smithy, foundry, sheet metal, plumbing etc.
- (f) The setting up of fluid mechanics and hydraulics machine lab and heat engines lab are in progress. (At present students of this college is utilizing the facilities of College of Engineering, Thiruvananthapuram).

B Electronics and Communication Engineering

The Department of Electronics and Communication Engineering has well-equipped labs such as

- (a) Electronics Devices Lab: This is the entry level lab conducted at third semester. Contains several Functions Generators, Panel meters, DC power supplies, over a dozen entry level Oscilloscopes (CRO), and one digital LCR meter.
- (b) Digital Integrated Circuits Lab: This is where the digital electronics experiments are conducted. Apart from the conventional equipments and lab contains Digital trainer kits and 6 numbers of Digital and Analog IC testers and over a dozen of Digital and Analog Multimeters.
- (c) Electronics Circuits Lab: Discrete components based basic electronic circuits experiments are conducted in this lab. The lab has DC power supplies and signal generators and 10 numbers of Digital Storage Oscilloscope.
- (d) Analog Integrated Circuits Lab: Advanced Analog Integrated Circuits based experiments are conducted in this lab. Facilities include 60MHz DSOs, Function Generators, DC power supplies, and Analog IC tester.
- (e) Communication Engineering Lab: It contains one high end DSO, Six numbers of 60MHz DSOs, 6 Function generators, and 10 numbers each Digital and Analog trainer kits. The lab also contains high end CROs, Function generators, DC power supplies and LabVIEW virtual instrumentation software.
- (f) Microcontroller Lab: Xilinx ISE design suit 10.1, Tanner T-Spice full version, Spartan 3/3E development board, BF 537 Development boards, 8051 development board, PIC development boards are also available for conducting experiments and projects thanks

to the funding from AICTE, under the MODROBS project (net worth INR 8.00Lacs). The lab is also equipped with 8086 and 8085 trainer kits and its various interfacing cards.

- (g) Electronic Product Design Facility (Miniproject Facility): Students are making use the pooled resources from all the labs for their Miniproject and final year projects (course Nos. 08.608, 08.710 and 08.808).
- (h) Communication Systems Lab: Equipments in this lab include Digital/Analog Communication Trainer kits, Function generators, AM/FM Signal generators, Projectors and One HP Laserjet Printer (HP 1007).
- (i) Digital Signal Processing Lab: Several DSP Starter Kits including TMS320C54X, TMS320C6713 and TMS320C6416 with accessory boards and associated bundled softwares. Purchase of additional DSKs in progress.
- (j) Computer lab: This lab contains 2 server Class (Wipro) machines with more than 40 desktop machines and 6 laptops with the following simulation softwares-MATLAB, MULTISIM, OrCAD, EDWIN XP. The Lab also provides wired and wireless Internet connectivity and room for mini- and main projects. Most of the desktops are configured as dual bootable on MS Windows XP/ Vista and Linux OS platforms.
- (k) Microwave and Optical Lab: This lab contains Klystron Power Supplies, Klystron Sources, Gunn Diode Oscillators, Gunn Power Supplies and VSWR and Microwave Frequency meter to conduct various experiments at Microwave frequencies. The lab also contain Optical trainer kits for conducting Optical Communication experiments.
- (l) EDUSAT Facility: Satellite-based interactive multimedia system with DW7700 modem, multimedia projector, High End Desktop (on Windows XP), HP LCD Projector, 1.2m diameter dish antenna, RF Microphone, video capture Card, and Sony handy cam with tripod. All the equipments are provided by the Department of Space under the EDUSAT programme.

C Information Technology

The Department of Information Technology has two lab rooms and a central server room. The department has the necessary software and

hardware infrastructure for the conduct of all the 8 laboratory/practical subjects in the curriculum. All the student projects are done in-house. Each laboratory room has networked printers over Ethernet LAN. Although the emphasis is on the use of Linux and open source software, other popular proprietary software platforms are also supported. In addition, the department provides the necessary technical support for the smooth functioning of the campus-wide network in the college. A 2 Mbps internet connection is provided to the entire campus via proxy server. The department is one of the nodal centers for the facilitation of the Centralized Allotment Process (CAP) for admission to professional courses.

- (a) **Server Room:** This room has 5 server machines with SCSI/SATA drives, RAID-5 capability, CD towers, routers, hubs and cable modem, housed within a central rack. Different servers are set apart for managing various activities. The OS platforms provided are Enterprise Linux, Windows Server and Solaris. A Software-testing Laboratory with HP Functional Testing software has also been set up under the MODROBS project of AICTE.
- (b) **Internet Laboratory:** This lab runs on thin-client machines running under Enterprise Linux as well as desktops running under Windows. 36 terminals are provided for Internet connectivity and running various software labs in the curriculum.
- (c) **Network Laboratory:** This lab has 8 CISCO routers, switches, high-speed modems and 36 dual-boot desktop machines. A wireless LAN laboratory with wireless access points/routers, wireless site survey kit and other equipment set up under the MODROBS project of AICTE.

D Electrical and Electronics Engineering

- (a) **Electrical Machines Lab:** This laboratory is equipped with different types of DC Series and Compound Motors, Single and Three phase Induction Motors, Single and Three phase Transformers, Alternator, Motor-Generator sets etc. The machines are also provided with necessary loading arrangements for conducting various tests. Measuring instruments such as Voltmeters, Ammeters, Wattmeters, Tachometers etc of different ranges and types are

also available for conducting the tests on the machines as per the B.Tech curriculum.

- (b) Digital Circuits and Electronics Circuits Lab: The lab is fully equipped with the facilities to conduct all the experiments in Digital Circuits and Electronics Circuits as per the prescribed syllabus of University of Kerala. With the facilities provided in the lab, the students can do project works for their final year of study.
- (c) Electrical and Electronics Workshop: This workshop gives hands on training to the students on different types of domestic, commercial and industrial wiring. The workshop is also equipped for conducting experiments in Basic Electronics Circuits which is part of the curriculum for the Electrical Engineering course.
- (d) Microprocessor Lab: The lab is equipped with the facilities to conduct all the experiments with 8085 processors including interfacing devices.
- (e) Measurements and Instrumentation Lab: This lab is also set up in the department and is in the processing stage.

Electrical Maintenance unit of the department undertakes urgent Electrical installations and maintenance of the whole campus using the facilities in the lab.

3.2 National Service Scheme (NSS)

National Service Scheme is a powerful and dynamic movement in the country. The NSS unit in our college provides opportunities to the teachers and students to gain practical experience through community service. The staff member in charge of the unit is Dr. Shine Lal. E, Lecturer in Mathematics.

3.3 Career Guidance and Placement Unit (CGPU)

The Career Guidance and Placement Unit (CGPU) of the college is actively organizing many events for the students to get placements in reputed organizations. There are good track records regarding campus placements in the previous years. Organizations like Infosys, TCS, Wipro, Accenture, VSNL, HCL, DELL, IBS, Larson and Tubro, Greaves Cotton, Anglo-Eastern Ship Management, Computer Science Corporation, Informatica, Nest, US Technology etc have come to our campus for recruiting students. The organizations specify the academic requirements, and only those candidates

having such eligibility will be considered for the selection process. The students are informed about the recruitment programs, and if necessary special coaching programs will be arranged for them to get through the selection process. Trainings on soft skills, group discussions, how to face interview etc are being conducted on regular basis. Master trainers from outside are also invited to campus for giving training to our students on various skills so as to empower them in attaining good placements. Classes are also being arranged for enlightening the students to pursue higher education in India and abroad. Industry experts are also invited to campus for giving exposure on various state-of-the-art technologies. Guidance will also be given to students for choosing best career options. Entrepreneur development programs are also arranged by the unit for the students. A core committee with representatives from pre-final year students of all batches facilitates the activities of the unit. Prof. S. Krishnan Kutty, Heads of IT and EE department is the coordinator of the placement unit.

3.4 The IEEE Student Branch

Website : ewh.ieee.org/sb/kerala/gecb
e-mail : ieeegecbh@gmail.com
IEEE Student Branch Code : 64271
School Code : 41707494

The student branch of the Institute of Electrical and Electronics Engineers, USA is functioning in the college, since March 2005. The motto is to create an awareness in the budding engineers on the latest technological innovation and networking with the peers. The student branch is a well organized body and is planning to build up a separate office and library of volumes on Electrical/Electronics, IT and Computer streams and a handful of periodicals including IEEE journals. The student branch takes up a host of activities throughout the year including guest lectures, video screening, technical quizzes, mock interviews and design contests for the benefit of students of Electronics and Communication/IT branches. The present student counselor is Prof. K. C. Raveendranathan, Professor and Head of Electronics and Communication Engineering department.

3.5 Computer Society of India

Computer Society of India established in the year 1965 is today the largest IT professionals Society in India. The purposes of the Society are scientific and educational advancement of the theory and practice of computer science, computer engineering and technology, systems science and engineering, information processing and related arts and sciences. The mission of the CSI is to facilitate research, knowledge sharing and career enhancement for all categories of IT professionals, while simultaneously inspiring and nurturing new entrants into the industry and helping them to integrate into the IT community. Today, the CSI has 66 chapters all over India, 381 student branches, and more than 40,000 members, including India's most famous IT industry leaders and dedicated academicians.

Government Engineering College Barton Hill is an institutional member of this premier professional society. The student branch of CSI at this college, with Mrs. Manju. R., Lecturer in IT Department as the branch counselor is organizing various programs for meeting the envisaged vision of the society.

3.6 Industry-Institute Interaction Cell (IIIC)

Industry-Institute Interaction Cell is functioning in this college as a forum of interaction between industries and the college, for mutual benefit. A committee consisting of representatives from industry and the faculty is monitoring the activities of the cell. Mr. V. V.Sasikumar, Assistant Professor, Dept. of Electronics and Communication Engineering, is the present convener of the cell.

3.7 Industrial Training

The Mechanical Engineering Department facilitates an Industrial attachment program to give the students a real feel of the work culture. Industrial training is usually carried out in the reputed firms such as KAL, BRAHMOS, Cochin Shipyard, Hyundai Motors, Toyota Kirloskar Motors, Travancore Titanium Ltd, KELTRON, BSNL, AIE etc.

3.8 The visiting faculty program

The visiting faculty program was introduced in various engineering colleges by the Government of Kerala. Under this program experts from industries and reputed research institutions are invited to deliver lectures or conduct seminars on latest technological and scientific developments. During the year 2009-10, a total of 15 programmes were conducted under the Visiting Faculty Scheme. Distinguished faculty from prestigious academic institutions (IISc Bangalore, IIT Madras, IIT Bombay, IIT Kharagpur, IIST, NIT Trichy, NIT Calicut etc) and experts from industry visited the college and delivered lectures on a host of topics ranging from core concepts to cutting-edge technologies. Mr. Balu John, Assistant Professor in Information Technology is the convener.

3.9 Indian Society for Technical Education (ISTE)

Indian Society for Technical Education (ISTE) is a national professional body consisting of nearly 40,000 engineering teachers and academicians. The activities of ISTE have several dimensions such as career development, subject upgradation, personality development, communication skill development, aptitude development, preparation for competitive examination etc. The aim of ISTE is to prepare faculty and students into master trainers and master students respectively. This college is an institutional member of ISTE.

3.10 IPR Cell

Intellectual Property Rights (IPR) cell has been setup in the college. This cell will function as a satellite centre for Patent Facilitating Centre of TIFAC, Government of India. The major objectives of the centre are to organize technical programmes to generate awareness among public on Intellectual Property Rights (IPR) and thus nurturing students research scholars, scientist, technocrats, professionals, industrialists, grass root innovators, etc. It aims to increase the IP output of the State by facilitating and guiding people from different walks of life. The cell will provide technical, legal and financial assistance for filing patent and facilitates to access patent related documents. Dr. Bindu Kumar K, Assistant Professor, Dept. of Mechanical Engineering, is the present convener of the cell.

3.11 Free Software Cell

Free Software Cell is an initiative by the students of GEC, Barton Hill to promote the usage of free software in technical and personal computing domain as well as to appreciate the philosophy behind open source initiatives among the students and public. In the last academic year an array of activities were coordinated by the volunteer of this group. FSC is publishing a college free software magazine by collecting articles from the students and reputed persons in the field every month. Weekly seminars and discussions have been organizing most fridays through out the year. A free software help desk were organized during two day cultural event of GEC. ie. Aagneya 2010 at Kanakakkunnu palace grounds. The website of the cell www.fsc.gecbh.ac.in is solely managed by the students only using free software technologies. Mr. Ranjith. S. Kumar, Lecturer, Dept. of Mechanical Engineering, is charge of the cell.

3.12 Associations

1. ASSOCIATION OF MECHANICAL ENGINEERING STUDENTS

It represents the student wing of the Mechanical Engineering Department. The Association arranges various technical forums and core industrial interactions. Seminars, Debates and Group discussions are conducted to improve the communication skills of the students.

2. ELECTRONICS ASSOCIATION

The Electronics Association is a forum set up for the over all development of students. Its main programs include arranging technical talks by eminent people in various fields of engineering. The association conducts a variety of programs aimed at improving communication skills as well as basic technical knowledge of the students. Every year the association organizes a mini project exhibition 'e-spark' for pre-final year students.

3. IT ASSOCIATION

The IT association functioning in the college is organizing various programs for bringing the state-of-the-art technology to the students. Invited talks, seminars, workshops on new technologies, training on real time projects with IT industries etc. are envisaged by the association. The association also plans inter/intra-collegiate competitions on technical paper presentations, coding and code debugging, system

design, web design, code testing etc. Campaigning will also be made to develop the culture of using open and free softwares among the students inside and outside the college.

4. ELECTRICAL ENGINEERING ASSOCIATION

The primary aim of the association is to promote and develop contacts between students and professionals. The sharing of ideas and experience among electrical engineering students is made possible through workshops, exchanges and other activities. The electrical engineering aspects are expressed through workshops, the most important activity of the association. During the workshops, lectures are presented by specialists from the industry and universities and discussions are conducted in small group sessions. Subjects are selected from new technologies and special fields of electrical engineering including Power Systems. Industrial visits are also part of the activities of the association.

3.13 College Library

The college is having a full fledged library. It has a good collection of books which cater to the needs of students. Periodicals and technical journals are available in the library. A separate reference section is also arranged for the students to read various topics of their interest. Good collection of books, under the book bank scheme has been implemented. A computerized library information system with easy search facility has also been implemented.

All students and teachers of the college are members of the library. The library is functioning under the guidance of a committee.

1. The library and reading room shall be kept open from 8:30 AM till 4:30 PM on all working days.
2. Students using the consulting room or the reading room shall maintain absolute silence.
3. Ordinarily a student is permitted to take three books at a time from the library.
4. Books taken out by the students shall not be retained for more than a period of one month from the date of issue. If the date falls on a holiday, the book must be returned on the next working day. Books

taken out before the commencement of a vacation must be returned not later than the third working day after the re-opening of the college. If the books are not returned within the third day, fine will be levied from the date.

5. Failure to return a book on the due date entails the student to pay fine of Rs. 1 per day for each book.
6. Generally books will not be renewed but if there is no demand for a book it may be re-issued after return.
7. Transfer of books taken out from the library is strictly prohibited.
8. Books of reference, illustrated and rare books, special books and collection will not be lent to the students.

3.14 Parent Teacher Association

A Parent Teacher Association is actively working in the college. The objectives of the association are:

- to work for the welfare of the students and the institution.
- to offer constructive suggestions for the smooth and successful functioning of this college.
- to promote better participation of the parents in the various programs of the college and to establish better liaison with the teachers

The PTA provides financial assistance to meritorious and needy students. These students are required to maintain a consistent academic record. The best student in each branch of engineering is awarded by the PTA. Cash awards are also given to top scorers of even semesters in the university examination.

T.A. Madhavan Pillai–K.N.Seetha memorial endowment cash prize, instituted by former principal Prof. M. Mahadevan is given to the student with the best Gate score in the annual general body meeting of PTA.

The office bearers of the PTA during 2009-2010

1. President	Prof. K.P. Geetha	9447772467
2. Vice- President	Mr. K. Parameswaran	2327483 9446685075
3. Secretary	Dr. Bindu Kumar. K	2361767 8129401020
4. Joint Secretary	Mr. Dileep Kumar.B	9447402121

5. Treasurer	Mr. K. L. Sreekumar	9446070050
6. Member (Parent)	Prof. S. Shabu	2555923 9447765575
7. Member (Parent)	Prof. Ruby Abraham	9447583337
8. Member (Parent)	Prof. C.Ravindran	9744755350
9. Member (Parent)	Mr. N. F. Francis	2441175 9446104461
10. Member (Parent)	Mrs. Lizy Paul	2431939 9447654589
11. Member (Parent)	Adv. Harindranath	2721133 9446266399
12. Member (Parent)	Mr. Divakaran.C.L	2540049 9495391181
13. Member (Parent)	Mr. R. Ramachandran	2310388 9446118662
14. Member (Parent)	Mr. P.S.Harikrishna Prasad	2316813 9446496813
15. Member (Teacher)	Prof. K.C. Raveendranathan	2371681 9447446911
16. Member (Teacher)	Dr. G. Ramachandran	2360528 9447699183
17. Member (Teacher)	Prof. S. Krishnankutty	2742416 9447418060
18. Member (Teacher)	Prof. MayaDevi	2444631 9446404631
19. Member (Teacher)	Mr. Biju. K. S	9446311606
20. Member (Teacher)	Dr. Shine Lal. E	2266723 9447011325

3.15 The Women's Study Unit

The Women's Study Unit which has been functioning for the last few years with the aim of providing support for female students in their academic and non-academic activities. It provides a platform through which the female community at Government Engineering College, Barton Hill express themselves. A library containing books of general interests functions under this unit.

3.16 The Ladies' Amenity Center

The amenity center for women at Government Engineering College, Barton Hill was opened on 1st September, 2008. The library section of the Women's Study Unit functions here. This center serves as a rest room for the sick and provides facilities for first aid and other basic amenities. Chess boards are available on request during leisure time.

3.17 College bus

Two college buses are operating for the convenience of students and staff of this college. It is controlled by a Transportation Committee. Mr. Joshy, I Grade Instructor in Mechanical Engineering is the coordinator.

3.18 Alumni Association

The institution has an alumni association. All students of the college who have completed the course are the members of the association. The association provides scholarships to meritorious and financially backward students. It also honors the best outgoing student in each department. Mrs. Shamna. H. R, Lecturer in Information Technology is the staff member in charge.

3.19 Staff Club

With the aim of promoting social interaction and to cater the recreational needs of the staff, the staff club was formed in the college. Teaching, non-teaching, office and library staff are the members of the club. Participation in the major events happening in the family of members, organizing lectures on specific topics by experts, health-care programs, celebrating festivals, conducting family tour, annual family get-together etc are some of the activities of the staff club. Principal is the patron of the club. The president of the club is Dr. G. Ramachandran and the secretary is Shri. Antony. The staff club also publishes a news letter THANIMA for circulation among the members. Prof. S. Krishnan Kutty is the editor of the news letter.

3.20 Grievance Redressal Committee

A committee has been constituted to redress the complaints of the students of the college regarding the inconveniences met by them. The committee will take up matters related to actions and find solutions to the problems and issues raised by the students for the smooth functioning of the college.

4 KERALA UNIVERSITY REGULATIONS

B.Tech Degree Course - 2008 Scheme

4.1 Conditions for admission

Candidates for admission to the B.Tech degree course shall be required to have passed the Higher Secondary Examination, Kerala or twelfth standard VHSE, CBSE, ISE or any examination accepted by the university as equivalent thereto attaining not less than 50% in Mathematics and 50% in Mathematics, Physics and Chemistry/ Bio-technology/Computer Science/Biology put together or a Diploma in Engineering awarded by the Board of Technical Education, Kerala or an examination recognized as equivalent thereto after undergoing an institutional course of at least three years securing a minimum of 50% marks in the final diploma examination subject to the usual concessions allowed for backward classes and other communities as specified from time to time.

4.2 Duration of the course

- (i) The course for the B.Tech Degree shall extend over a period of four academic years comprising of eight semesters. The first and second semester shall be combined and each semester from third semester onwards shall cover the groups of subjects as given in the curriculum and scheme of examination.
- (ii) Each semester shall ordinarily comprise of not less than 400 working periods each of 60 minutes duration.
- (iii) A candidate who could not complete the program and pass all examinations within ten (10) years since his first admission to the B.Tech Degree program will not be allowed to continue and he has to quit the program. However, he can be readmitted to the first year of the program if he/she satisfies the eligibility norms applicable to the regular candidates prevailing at the time of readmission.

4.3 Eligibility for the degree

Candidates for admission to the degree of bachelor of technology shall be required to have undergone the prescribed course of study in an institution maintained by or affiliated to the University of Kerala for a period of not less than four academic years and to have passed all the examinations specified in the scheme of study.

4.4 Subjects of study

The subjects of study shall be in accordance with the scheme and syllabi prescribed.

4.5 Evaluation

Candidates in each semester will be evaluated both by continuous assessment and end semester university examination. The individual maximum marks allotted for continuous assessment and university examination for each subject is as prescribed by the scheme of study.

4.5.1 Continuous assessment (CA)

The marks awarded for the continuous assessment will be on the basis of the day to day work, periodic tests (minimum two in a semester) and assignments (minimum of three- one for each module). The faculty member concerned will do the continuous assessment for each semester. The CA marks for the individual subjects shall be computed by giving weightage to the following parameters.

SUBJECT	ATTENDANCE	TESTS	ASSIGNMENTS/ CLASS WORK
THEORY SUBJECTS	20%	50%	30%
DRAWING	20%	40%	40%
PRACTICAL	20%	40%	40%
Project Work	Work Assessed by guide		50%
	Assessed by a three member committee out of which one member is the guide		50%

The CA marks for the attendance (20%) for each theory, practical and drawing shall be awarded in full only if the candidate has secured 90% attendance or above in the subject. Proportionate reduction shall be made in the case of subjects in which he/she gets below 90% attendance for a subject. The C.A marks obtained by the student for all subjects in a semester is to be published at least five days before the commencement of the university examinations. Anomalies if any, may be scrutinized by the department committee and final CA marks are forwarded to the university within the stipulated time.

4.5.2 End semester university examinations

- (i) There will be university examination at the end of the first academic year and at the end of every semester from third semester onwards in each subject as prescribed under the respective scheme of examinations. Semester classes shall be completed at least 10 working days before the commencement of university examination.
- (ii) The examination will be held twice in a year April/May session (for even semester) and October/November session (for odd semester). The combined first and second semester is reckoned as equivalent to an even semester for the purpose of conduct of examination and the university examination will be held during April/May. However, VII and VIII semester examination will be conducted in both the sessions. This schedule will not be changed.
- (iii) A student will be permitted to appear for the university examination only if he/she satisfies the following requirements:
 - (a) He/she must secure not less than 75% attendance in the total number of working periods during the first year and in each semester thereafter and shall be physically present for a minimum of 60% of the total working periods. In addition, he/she also shall be physically present in at least 50% of the total working periods for each subject.
 - (b) He must earn a progress certificate from the head of the institution of having satisfactorily completed the course of study in the semester as prescribed by these regulations.
 - (c) It shall be open to the vice-chancellor to grant condonation of shortage of attendance on the recommendation of the head of the institution in accordance with the following norms.
 - (d) The attendance shall not be less than 60% of the total working periods.
 - (e) He/ she shall be physically present for a minimum of 50% of the total working periods.
 - (f) The shortage shall not be condoned more than twice during the entire course.

- (g) The condonation shall be granted subject to rules and procedures prescribed by the university from time to time.
- (h) The condonation for first and second semesters will be reckoned as a single condonation for attendance purposes.

- (iv) A student who is not permitted to appear for the university examinations for a particular semester due to the shortage of attendance and not permitted by the authorities for condonation of shortage of attendance shall repeat the semester when it is offered again. This provision is allowed only once for a semester.

- (v) The university will conduct examinations for all subjects (Theory, Drawing and Practical).

- (vi) The scheme of valuation will be decided by the chief examiner for theory/ drawing subjects.

- (vii) For practical examinations, the examiners together will decide the marks to be awarded. The student shall produce the certified record of the work done in the laboratory during the examination. The evaluation of the candidate should be as per the guidelines given in the syllabus for the practical subject.

4.6 Letter grades

For each subject in a semester, based on the total marks obtained by the student in the university examination and continuous assessment put together a letter grade (S, A+, A, B+, B, C+, C, D, E and F) will be awarded. All letter grades except F will be awarded if the marks for the university examination is 40% or above and total mark (C.A. marks + university exam mark) is 50% or above. No absolute mark will be indicated in the grade card. Letter grade corresponding to total marks (C.A. marks + university exam mark) and the corresponding grade point in a ten-point scale is described below.

PERCENT OF TOTAL MARKS (CA MARKS+ UNIVERSITY EXAM MARK)	LETTER GRADE	GRADE POINT (GP)	REMARKS
90% and above	S	10	Excellent
85% and above but less than 90%	A+	9	
80% and above but less than 85%	A	8.5	
75% and above but less than 80%	B+	8	
70% and above but less than 75%	B	7.5	
65% and above but less than 70%	C+	7	
60% and above but less than 65%	C	6.5	
55% and above but less than 60%	D	6	
50% and above but less than 55%	E	5.5	
Below 50% (CA+UE) or below 40% for UE only	F	0	Failed

4.7 Grade Point Average (GPA) and Cumulative Grade Point Average (CGPA)

Grade Point Average is the semester-wise average points obtained by each student in a 10-point scale. GPA for a particular semester is calculated as per the calculation shown below.

$$\text{GPA} = \frac{\sum \text{Credit} \times \text{GPA obtained for the subject}}{\sum \text{Credit for subject}}$$

Cumulative Grade Point Average (CGPA) is the average grade points obtained by the students till the end of any particular semester. CGPA is calculated in a 10-point scale as shown below.

$$\text{CGPA} = \frac{\sum \text{Credits for semester} \times \text{GPA obtained for the semester}}{\sum \text{Credit for the semester}}$$

GPA and CGPA shall be rounded to two decimal points. The grade card issued to the students shall contain subject number and subject name, credits for the subject, letter grades obtained, GPA for the semester and CGPA up to that particular semester. In addition to the grade cards for each semester all successful candidate shall also be issued a consolidated statement grades. On specific request from a candidate and after remitting the prescribed fees, the university shall issue detailed mark to the individual candidate.

4.8 Minimum for a pass

- (a) A candidate shall be declared to have passed a semester examination in full in the first appearance if he/she secures not less than 5.5 GPA with a minimum of E grade for all individual subject in that semester.
- (b) A candidate shall be declared to have passed in an individual subject of a semester examination if he/she secures grade E or above.
- (c) A candidate who does not secure a full pass in a semester examination as per clause (a) above will have to pass in all the subjects of the semester examination as per clause (b) above before he is declared to have passed in that semester examination in full.

4.9 Improvement of grades

- (i) A candidate shall be allowed to re-appear for a maximum of two subjects of a semester examination in order to improve the marks and hence the grades already obtained subject to the following conditions.
 - (a) The candidate shall be permitted to improve the examination only along with next available chance.
 - (b) The candidate shall not be allowed to appear for an improvement examination for the subjects of semesters VII and VIII.
 - (c) The grades obtained by the candidate for each subject in the improvement chance he has appeared for or the already existing grades- whichever is better will be reckoned as the grades secured.
 - (d) First and Second semester will be counted as a single chance and they can improve a maximum of three subjects.
- (ii) A candidate shall be allowed to repeat the course work in one or more semesters in order to the CA marks already obtained, subject to the following conditions.
 - (a) He/she shall repeat the course work in a particular semester only once and that too at the earliest opportunity offered to him/her.
 - (b) He/she shall not combine this course work with his/her regular course work.

- (c) He/she shall not be allowed to repeat the course work of any semester if he has already passed that semester examination in full.
 - (d) The CA marks obtained by the repetition of this course work will be considered for all purposes.
- (iii) A candidate shall be allowed to withdraw from the whole examination of a semester in accordance with the rules for cancellation of examination of the University of Kerala.

4.10 Classification of successful candidates

- (i) A candidate who qualifies for the degree passing all the subjects of the eight semesters within five academic years (ten consecutive semesters after the commencement of his/her course of study) and secures not less than 8 CGPA up to and including eighth semester (overall CGPA) shall be declared to have passed the B.Tech degree examination in **FIRST CLASS WITH DISTINCTION**.
- (ii) A candidate who qualifies for the degree passing all the subjects of the eight semesters within five academic years (ten consecutive semesters after the commencement of his/her course of study) and secures less than 8 CGPA but not less than 6.5 CGPA up to and including eighth semester shall be declared to have passed the B.Tech degree examination in **FIRST CLASS**.
- (iii) All other successful candidates shall be declared to have passed the B.Tech degree examination in **SECOND CLASS**.
- (iv) Successful candidates who complete the examination in four academic years (Eight consecutive semesters after the commencement of his/her course of study) shall be ranked branch-wise on the basis of the CGPA in all eight semesters put together. In the case of a tie in the CGPA the total marks of the students who have got same CGPA shall be considered for finalizing the rank. Students who pass the examination in supplementary examination are also covered under this clause.

4.11 Educational tour

- (i) The students may undertake one educational tour preferably after fourth semester of the course and submit a tour report.
- (ii) The tour may be conducted during the vacation/ holidays taking not more than 5 working days, combined with the vacation/ holidays if required. Total number of tour days shall not exceed 15 days.
- (iii) The tour period shall be considered as part of the working periods of a semester.

4.12 Revision of regulations

The university may from time to time revise, amend or change the regulations, curriculum, scheme of examination and syllabi. These changes unless specified otherwise, will have effect from the beginning of the academic year/ semester following the notification of the university.

4.13 Recognition and matriculation

General guidelines

- A. The applications for Recognition and Matriculation with the required documents should be send separately i.e as two separate files.
 - B. Incomplete applications are not to be forwarded, but fees can be remitted before the due date and the consolidated receipts together with the list of students should be forwarded before the due date. Fine need not be remitted if the fee is remitted within 3 months after the last date of admission.
 - C. Applications should be forwarded by the principals with the college / department seal, designation seal etc. failing which the applications will be rejected.
- (a) **Recognition—General Rules**
- 1. Recognition is necessary for all candidates who have passed their qualifying exams from universities / Board other than University

of Kerala.

Note: Candidates who have passed their qualifying examination from Calicut University are exempted from obtaining recognition.

2. In the case of application of candidates who have passed their qualifying examination from the following Universities /Boards are exempted from sending the same to EF II section for granting recognition.
 - (a) Mahatma Gandhi University, Kottayam
 - (b) Higher Secondary Board, Kerala
 - (c) Vocational Higher Secondary Board, Kerala
 - (d) Technical School Leaving Certificate issued by Department of Technical Education, Kerala.

In these, however, the application form for recognition, Matriculation, Migration Certificate and the prescribed fee of Rs. 100/- for Recognition and Rs. 50 for Matriculation has to be attached along with application for registration.

Note: Candidates who has passed the qualifying examination from Higher Secondary Board of Kerala are exempted from producing migration certificate.

Documents to be forwarded with the application for recognition

- (i) Prescribed application form for recognition filled in. (Course for which admission is sought and year of admission should be specified, column 3 and 4 and column number 7 should be attested by the Principal/Head of Department with Designation seal and the College seal.)
- (ii) Fee receipt for Rs. 200 (if the application is made after one year of admission a fine of Rs. 50 is also to be remitted). (Additional Rs. 10 as service charges in case of Demand Draft)
- (iii) Original pass Certificate or Degree Certificate (Mark lists to be attached in the VHS Course, HSE (Government of Kerala) HSCC (Government of Tamil Nadu) etc.
- (iv) Original Migration Certificate (Not necessary in the case of Higher Secondary course/VHS course, HSE (Government at Kerala) HSCC (Government of Tamil Nadu) etc.

- (v) Original eligibility certificate issued from the University of Kerala.

Eligibility certificate can be obtained from the University by applying to the Deputy Registrar (Academic) in the prescribed form with sufficient proof of having passed the examinations and with prescribed fees. The original Eligibility certificate thus obtained should be attached along with the application for Recognition.

(b) Matriculation - General rules:

- (i) Candidates who passed their qualifying examination from universities other than the University of Kerala and seeking admission in this University need to apply for matriculation in the prescribed form remitting the prescribed fee of Rs. 50 A late of Rs. 25 will be charged if the application is not made within a period of 3 months from the date of admission.
- (ii) In case if a candidate discontinue a course after appearing for the first/second year examinations, and joins another course of another Board/University, shall necessarily be re-matriculated for continuing the course already studied in this University. Migration certificate from the latter institution is necessary for such cases.

Documents to be forwarded for Matriculation/Re-matriculation.

- (i) Prescribed application form for Matriculation duly filled in
- (ii) Matriculation Fee Receipt (MFR) Rs. 50 If the application is made within a period of months from the date of admission. A rate of Rs. 25 will be charged after that period.

4.14 Condonation of shortage of attendance

1. Application for condonation of shortage of attendance in the prescribed form should be recommended and forwarded by the Principal/Head of Institution to the Controller of Examination, 10 days before the commencement of Examination. The applications forwarded after the prescribed date will not be accepted at any rate.

2. The Principals/Head of the Institutions should publish the list of candidates who are in shortage of attendance in time and forward the same to the University.
3. Application should be filled in properly, corrections should be attested by the Principal and should be forwarded with forwarding letter from the Principal or the Head of the Department
4. Total number of days, wherever required, should be given in days only.
5. A separate statement showing the reasons for each day's absence, duly attested by the Principal should accompany the application.
6. Medical certificate should be produced if the period of absence exceeds five days continuously.
7. Condonation will not be granted for more than one academic year during a particular course of study. (that is, condonation will be granted only once in the course period)
8. The certificate showing that condonation was not granted previously should be furnished by the principal.
9. The year in which condonation is to be granted should be specified in the application.
10. Condonation will not be allowed if the shortage of attendance exceeds 20 days.
11. The prescribed fee for condonation of up to 10 days is Rs. 100/-. If the number of days is between 11 to 20, the fee is Rs. 200/-. (For more details please contact EF II Section Intercom No. 369)

4.15 Cancellation of examination

Permission will be granted for canceling an examination taken by the candidate on request. Practical or Viva voce alone cannot be cancelled. The cancelled exam will not be counted as a chance. Application in prescribed form should be forwarded to the concerned Deputy Registrar through the Chief Superintendent of the Exam center along with the hall

ticket and the prescribed fee of Rs. 50/- per paper within 14 days from the last date of the examination. Cancellation will be allowed only for regular examinations.

Note : This is only a general direction. The public relations wing may be contacted for detailed information regarding the various provisions.

4.16 Guidelines for revaluation of answer books of university

1. Application for evaluation of answer scripts will be considered only for examinations other than Post graduate examinations, Practical Examinations and examinations for which there is provision for double valuation.
2. Application for revaluation shall be made in the prescribed form available from the University.
3. The fee for revaluation of answer scripts is Rs.125 per paper. If different sections of questions in a question paper are answered in different answer books, they shall be treated together as a single unit/paper.
4. Application for revaluation should reach the office of the Controller of Examinations within 15 days from the date of publication of result or within 10 days from the date of receipt of a mark list at the respective Centre of Examination unless otherwise specified by the University.
5. Applications received after the last date of the prescribed will not be considered under any circumstances.
6. Fee once remitted for revaluation of answer scripts will not be refunded.

4.17 Scrutiny of answer books

Application for scrutiny of answer books should reach the concerned Deputy registrar within one month from the date of publication of results unless otherwise notified.

Fee for Scrutiny (each paper) Rs. 30.

Only candidates are allowed to identify the answer books after scrutiny . Application must be in the prescribed form and must be accompanied with the Chelan Receipt/DD for the prescribed fee. A sufficiently stamped self addressed envelop must also be submitted for communicating the result of scrutiny through registered post.

4.18 Confidential reporting of marks

Marks scored by a candidate in an exam will be reported confidentially before the publication of results, on request, to the Heads of Institutions outside the University/State for the purpose of seeking admission for to higher studies/employment. Marks will be reported to more than one institution if necessary. Additional fee will have to be paid for each additional copy.

Application in the prescribed form should be forwarded to the Deputy Registrar of the concerned examination. Rate of fee is as follows:

1. For higher studies : Rs. 100
Every additional copy : Rs. 50
2. For employment : Rs. 200 per copy

Sufficiently stamped envelop with address of the Head of the institution to whom marks are to be reported should also be submitted along with the application.

4.19 Transfer of students (Inter college and inter university)

4.19.1 Transfer from one College to another (only for Semester three)

Any student who has been admitted to a college or a University Department will be allowed a transfer to another College.

A student desirous of transfer from one College to another may apply to the University for permission for such transfer in the prescribed form by paying the prescribed fee. Approval from the principals of both the colleges are necessary for inter college transfer.

4.19.2 Inter University Transfer (only for Third Semester)

- (a) The course of study prescribed by the University shall be the same to which the student is admitted.

- (b) The degree of certificate to be awarded after the successful completion of the course of study shall be the same recognized as equivalent thereto.
- (c) He shall be a student whose name shall be or had been on the rolls of the college from which transfer is sought.
- (d) He shall not be a debarred or otherwise punished person for any disciplinary or malpractice case.

4.19.3 Combination of Attendance

A student, who has been permitted by the Vice Chancellor to be transferred from one College to another, shall apply for combination of the attendance earned by him in the college in which he had studied before such transfer and the attendance that he would be able to earn in the college to which he has been admitted. Every such application shall be accompanied by the prescribed fee and shall be sent to the Registrar of the University through the Principal, so as to reach him not later than one month after admission to the new college, and in any case fifteen days before the last date for the receipt of application for admission to the examination.

4.20 Readmission rules

Re-admission of the application in the prescribed form duly recommended by the Principal of the concerned college is to be submitted to the concerned academic section of the University with requisite fee. The fee prescribed for re-admission to Professional course is Rs. 300.

Normally, there shall be vacant seat to re-admit the student, if additional seats are required, the principal must clearly mention the requirements of additional seat. There shall not be any additional financial commitment to the University because of this re-admission. The candidate shall take the same optional subject he was studying at the time of discontinuance. He/She shall appear for the examination as per the existing scheme and syllabus. Further, the candidate shall earn required minimum attendance to appear for the University examination.

4.21 Migration to other universities

Application for Migration Certificate should be made to the Controller of examination in the prescribed form, which can be obtained from the University office. The application should be forwarded through the Principal/Headmaster of the college/school where the student studied last with the prescribed fee.

Applicants who have passed SSLC examination and have undergone any course of study under this University should remit the prescribed fee for the migration certificate and fee for registration as matriculate of this University and forward their SSLC books for verification and return along with their Migration certificate.

No migration certificate will be issued to candidates who are not eligible for admission to university course of studies. A candidate will not be issued a migration certificate more than once at a time. However, if the migration certificate issued to a candidate has been lost irrecoverably a duplicate will be issued on production of pay - in- slip /DD towards fee together with an application. A declaration of the candidate to the effect that the original migration certificate issued to the candidate has been lost irrecoverably and that has not been utilized for the purpose for which it was issued duly countersigned by two gazetted officers may also be accompanied with the application.

4.22 Fee details

The details of fees for the B. Tech degree examination under the Semester Scheme are as follows with effect from November/December 2004 Examination onwards

Combined I and II Semesters First appearance (whole exam)	Rs. 510
III to VIII Semester (each) First appearance (whole exam)	Rs. 235 + Rs. 45 per practical
Subsequent appearance (whole exams)	Rs. 135 + Rs. 40 for mark list + Rs. 40 × Number of Practical exams + Rs. 75 for Stationary
Subsequent appearance for one or more subjects	Rs. 35 × Number of papers + Rs. 40 × Number of Practical Exams + Rs. 40 for Mark list + Rs. 75 for Stationary + Rs. 75 for Improvement Registration fee in the case of improvement examination

Each candidate should pay Rs. 200 as fee for CV Camp.

5 CURRICULUM AND SCHEME OF EXAMINATION

5.1 B.Tech Degree Course 2008 Admission

Students across all branches share a common curriculum and exams for the first and second semesters, as shown below:

FIRST AND SECOND SEMESTER (COMMON TO ALL BRANCHES)		Hours/Week			SESSIONAL MARKS	UNIVERSITY EXAMS		CREDITS
COURSE	SUBJECT	L	T	D/P		HRS	MARKS	
08.101	Engineering Mathematics	2	1	0	50	3	100	6
08.102	Engineering Physics	2	1	0	50	3	100	6
08.103	Engineering Chemistry	2	1	0	50	3	100	6
08.104	Engineering Graphics	1	0	2	50	3	100	6
08.105	Engineering Mechanics	2	1	0	50	3	100	6
08.106	Basic Civil Engineering	2	1	0	50	3	100	6
08.107	Basic Mechanical Engineering	2	1	0	50	3	100	6
08.108	Basic Electrical and Electronics Engineering	2	1	0	50	3	100	6
08.109	Basic Communication and Information Engineering	2	1	0	50	3	100	6
08.110	Engineering Workshops	0	0	2	50	3	100	4
TOTAL		17	8	4	500		1000	58

The curriculum and scheme of exams for subsequent semesters are given separately for different branches in the following pages.

5.1.1 Electrical and Electronics Engineering

SEMESTER III		Hours/Week			SESSIONAL MARKS	UNIVERSITY EXAMS		CREDITS
COURSE	SUBJECT	L	T	D/P		HRS	MARKS	
08.301	Engineering Mathematics II	3	1	0	50	3	100	4
08.302	Humanities	3	0	0	50	3	100	3
08.303	Hydraulic Machines and Heat Engines	2	2	0	50	3	100	4
08.304	Network Analysis and Synthesis	2	2	0	50	3	100	4
08.305	Solid State Devices and Circuits	2	2	0	50	3	100	4
08.306	Electrical Machines I	2	2	0	50	3	100	4
08.307	Hydraulic Machines and Heat Engines Lab	0	0	3	50	3	100	3
08.308	Electrical and Electronic Workshops	0	0	3	50	3	100	3
TOTAL		14	9	6	400		800	29

SEMESTER IV		Hours/Week			SESSIONAL MARKS	UNIVERSITY EXAMS		CREDITS
COURSE	SUBJECT	L	T	D/P		HRS	MARKS	
08.401	Engineering Mathematics III	3	1	0	50	3	100	4
08.402	Digital Electronics and Logic Design	3	1	0	50	3	100	4
08.403	Engineering Electro-Magnetics	2	1	0	50	3	100	3
08.404	Electrical Measurements I	2	1	0	50	3	100	3
08.405	Engineering Material Science	2	1	0	50	3	100	3
08.406	Power System Engineering- I	2	2	0	50	3	100	4
08.407	Electronic Circuits Lab	0	0	4	50	3	100	4
08.408	Electrical Machines Lab -I	0	0	4	50	3	100	4
TOTAL		14	7	8	400		800	29

Electrical and Electronics Engineering (continued)

SEMESTER V		Hours/Week			SESSIONAL MARKS	UNIVERSITY EXAMS		CREDITS
COURSE	SUBJECT	L	T	D/P		HRS	MARKS	
08.501	Engineering Mathematics V	3	1	0	50	3	100	4
08.502	Electronic Instrumentation	2	1	0	50	3	100	3
08.503	Electrical Measurements II	2	1	0	50	3	100	3
08.504	Power Electronics	3	1	0	50	3	100	4
08.505	Electrical Machines II	2	2	0	50	3	100	4
08.506	Elective I	2	1	0	50	3	100	3
08.507	Digital Circuits Lab	0	0	4	50	3	100	4
08.508	Measurements and Instrumentation Lab	0	0	4	50	3	100	4
TOTAL		13	8	8	400		800	29

SEMESTER VI		Hours/Week			SESSIONAL MARKS	UNIVERSITY EXAMS		CREDITS
COURSE	SUBJECT	L	T	D/P		HRS	MARKS	
08.601	Electrical Machines III	2	1	0	50	3	100	3
08.602	Microprocessors and Applications	2	2	0	50	3	100	4
08.603	Numerical Techniques and Computer Programming	2	1	0	50	3	100	3
08.604	Industrial Engineering and Management	2	1	0	50	3	100	3
08.605	Power System Engineering II	2	2	0	50	3	100	4
08.606	Elective II	3	1	0	50	3	100	4
08.607	Power Electronics Lab	0	0	4	50	3	100	4
08.608	Microprocessor Lab	0	0	2	25	2	50	2
08.609	Software Lab	0	0	2	25	2	50	2
TOTAL		13	8	8	400		800	29

Electrical and Electronics Engineering (continued)

SEMESTER VII		Hours/Week			SESSIONAL MARKS	UNIVERSITY EXAMS		CREDITS
COURSE	SUBJECT	L	T	D/P		HRS	MARKS	
08.701	Control Systems	2	2	0	50	3	100	4
08.702	Power System Engineering III	2	1	0	50	3	100	3
08.703	Digital Signal Processing	2	1	0	50	3	100	3
08.704	Elective III	2	1	0	50	3	100	3
08.705	Electrical Drawing	0	0	4	50	3	100	4
08.706	Electrical Machines Lab II	0	0	4	50	3	100	4
08.707	Power System Lab	0	0	4	50	3	100	4
08.708	Seminar and Project	0	0	4	100			4
TOTAL		8	5	16	450		700	29

SEMESTER VIII		Hours/Week			SESSIONAL MARKS	UNIVERSITY EXAMS		CREDITS
COURSE	SUBJECT	L	T	D/P		HRS	MARKS	
08.801	Advanced Control Theory	2	1	0	50	3	100	3
08.802	Electrical Machine Design	2	2	0	50	3	100	4
08.803	Electrical System Design	2	2	0	50	3	100	4
08.804	Power Semiconductor Drives	2	1	0	50	3	100	3
08.805	Elective IV	2	1	0	50	3	100	3
08.806	Elective V	2	1	0	50	3	100	3
08.807	Project and Viva voce (Industrial Visits)	0	0	5	100	3	100	5
08.808	Systems and Control Lab	0	0	4	100			4
TOTAL		12	8	9	450		800	29

Electrical and Electronics Engineering (continued)

List of Electives

Elective I

1. Computer Architecture
2. Superconductivity and Applications
3. Operations Research
4. New and Renewable Sources of Energy

Elective II

1. Energy Conservation and Management
2. Biomedical Instrumentation
3. Software Engineering
4. Communicative English and Technical Writing

Elective III

1. Electronic Communication
2. Environmental Engineering
3. Advanced Microprocessor Architecture and Programming
4. Management Information System

Elective IV

1. Modern Operating Systems
2. Computer Aided Power System Analysis
3. Robotics and Industrial Automation
4. Microprocessor Based System Design
5. Soft Computing Techniques
6. Pattern Recognition

Elective V

1. Computer and Data Networks
2. Advanced Electronic Communication
3. High Voltage Engineering
4. Object Oriented Programming
5. Digital Image Processing
6. Wavelets and Applications

5.1.2 Electronics and Communication Engineering

SEMESTER III		Hours/Week			SESSIONAL MARKS	UNIVERSITY EXAMS		CREDITS
COURSE	SUBJECT	L	T	D/P		HRS	MARKS	
08.301	Engineering Mathematics II	3	1	0	50	3	100	4
08.302	Solid State Devices	3	1	0	50	3	100	4
08.303	Network Analysis	3	1	0	50	3	100	4
08.304	Programming in C++ and Data Structures	2	0	2	50	3	100	4
08.305	Electronics Circuits I	3	1	0	50	3	100	4
08.306	Digital Electronics	2	1	0	50	3	100	3
08.307	Electronics Devices Lab	0	0	3	50	3	100	3
08.308	Digital Integrated Circuits Lab	0	0	3	50	3	100	3
TOTAL		16	5	8	400		800	29

SEMESTER IV		Hours/Week			SESSIONAL MARKS	UNIVERSITY EXAMS		CREDITS
COURSE	SUBJECT	L	T	D/P		HRS	MARKS	
08.401	Engineering Mathematics - III	3	1	0	50	3	100	4
08.402	Humanities and Environmental Systems	3	0	0	50	3	100	3
08.403	Signals and Systems	3	1	0	50	3	100	4
08.404	Electronics Circuits II	2	1	0	50	3	100	3
08.405	Analog Integrated Circuits	3	1	0	50	3	100	4
08.406	Analog Communication	2	1	0	50	3	100	3
08.407	Electronics Circuits Lab	0	0	4	50	3	100	4
08.408	Analog Integrated Circuits Lab	0	0	4	50	3	100	4
TOTAL		16	5	8	400		800	29

Electronics and Communication Engineering (continued)

SEMESTER V		Hours/Week			SESSIONAL MARKS	UNIVERSITY EXAMS		CREDITS
COURSE	SUBJECT	L	T	D/P		HRS	MARKS	
08.501	Engineering Mathematics- IV	3	1	0	50	3	100	4
08.502	Digital Signal Processing	3	1	0	50	3	100	4
08.503	Computer Organization and Architecture	2	1	0	50	3	100	3
08.504	Electric Drives and Control	2	1	0	50	3	100	3
08.505	Applied Electromagnetic Theory	3	1	0	50	3	100	4
08.506	Elective I	2	1	0	50	3	100	3
08.507	Communication Engineering Lab	0	0	4	50	3	100	4
08.508	Digital Signal Processing Lab	0	0	4	50	3	100	4
TOTAL		15	6	8	400		800	29

SEMESTER VI		Hours/Week			SESSIONAL MARKS	UNIVERSITY EXAMS		CREDITS
COURSE	SUBJECT	L	T	D/P		Hrs	MARKS	
08.601	Micro controller Based System Design	3	1	0	50	3	100	4
08.602	VLSI Design	3	1	0	50	3	100	4
08.603	Control Systems	2	1	0	50	3	100	3
08.604	Digital Communication	3	1	0	50	3	100	4
08.605	Antenna and Wave Propagation	2	1	0	50	3	100	3
08.606	Elective II	2	1	0	50	3	100	3
08.607	Micro controller Lab	0	0	4	50	3	100	4
08.608	Electronic Product Design Mini Project	1	0	3	50	3	100	4
TOTAL		16	6	7	400		800	29

Electronics and Communication Engineering (continued)

SEMESTER VII		Hours/Week			SESSIONAL MARKS	UNIVERSITY EXAMS		CREDITS
COURSE	SUBJECT	L	T	D/P		Hrs	MARKS	
08.701	Industrial Management	2	1	0	50	3	100	3
08.702	Optical Communication	3	1	0	50	3	100	4
08.703	Microwave Engineering	3	1	0	50	3	100	4
08.704	Information Theory and Coding	3	1	0	50	3	100	4
08.705	Elective III	2	1	0	50	3	100	3
08.706	Elective IV	2	1	0	50	3	100	3
08.707	Industrial Electronics Lab	0	0	3	50	3	100	3
08.708	Communication Systems Lab	0	0	3	50	3	100	3
08.709	Seminar	0	0	1	50			1
08.710	Project Design	0	1	0	50			1
TOTAL		15	7	7	500		800	29

SEMESTER VII		Hours/Week			SESSIONAL MARKS	UNIVERSITY EXAMS		CREDITS
COURSE	SUBJECT	L	T	D/P		Hrs	MARKS	
08.801	Nano Electronics	2	1	0	50	3	100	3
08.802	Radar and Television Engineering	3	1	0	50	3	100	4
08.803	Computer Communication	2	1	0	50	3	100	3
08.804	Satellite and Mobile Communication	3	1	0	50	3	100	4
08.805	Elective V	2	1	0	50	3	100	3
08.806	Elective VI	2	1	0	50	3	100	3
08.807	Microwave and Optical Communication Lab (Industrial Visits)	0	0	4	50	3	100	4
08.808	Project	0	0	5	150			3
08.809	Viva voce	0	0	0	0	3	100	2
TOTAL		14	6	9	500		800	29

Electronics and Communication Engineering (continued)

List of Electives

Elective I

1. Logic Synthesis and Verification
2. Fuzzy Systems and Applications
3. System Software
4. Artificial Neural Networks
5. Digital Systems Design with VHDL
6. Professional Communication
7. Electromagnetic Compatibility

Elective II

1. Speech Processing
2. Adaptive Signal Processing
3. Digital Image Processing
4. Wavelets and Applications
5. Digital Signal Processors
6. Optimization Techniques
7. Electronic Instrumentation

Elective III

1. Real Time Operating Systems
2. Cryptography
3. Pattern Recognition
4. Optoelectronic Devices
5. Computer Vision

6. CDMA Systems

Elective IV

1. Mixed Signal Circuits Design
2. Embedded Systems
3. Intellectual Property Rights
4. MEMS
5. Low Power VLSI Design
6. Antenna Design

Elective V

1. Aviation Electronics
2. Integrated Optics and Photonic Systems

3. Microwave Devices and Circuits

4. Discrete Control and Navigation Systems
5. Artificial Intelligence and Robotics

Elective VI

1. Modelling and Simulation of Communication Systems
2. Biomedical Engineering
3. Information Security
4. Digital Instrumentation
5. Current Topics

5.1.3 Information Technology

SEMESTER III		Hours/Week			SESSIONAL MARKS	UNIVERSITY EXAMS		CREDITS
COURSE	SUBJECT	L	T	D/P		Hrs	MARKS	
08.301	Engineering Mathematics II	3	1	0	50	3	100	4
08.302	Problem Solving and Programming in C	2	2	0	50	3	100	4
08.303	Discrete Structures	2	1	0	50	3	100	3
08.304	Electronic Circuits	2	1	0	50	3	100	3
08.305	Digital System Design	2	2	0	50	3	100	4
08.306	Computer Organization	2	1	0	50	3	100	3
08.307	Electronics Circuits Lab	0	0	4	50	3	100	4
08.308	Programming Lab	0	0	4	50	3	100	4
TOTAL		13	8	8	400		800	29

SEMESTER IV		Hours/Week			SESSIONAL MARKS	UNIVERSITY EXAMS		CREDITS
COURSE	SUBJECT	L	T	D/P		Hrs	MARKS	
08.401	Engineering Mathematics III	3	1	0	50	3	100	4
08.402	Humanities	3	0	0	50	3	100	3
08.403	Micro controller Based Design	3	1	0	50	3	100	4
08.404	Object Oriented Techniques	2	1	0	50	3	100	3
08.405	Data Structures and Algorithms	2	2	0	50	3	100	4
08.406	Data Base Design	3	0	0	50	3	100	3
08.407	Data Structures Lab	0	0	4	50	3	100	4
08.408	Object Oriented Programming Lab	0	0	4	50	3	100	4
TOTAL		16	5	8	400		800	29

Information Technology (continued)

SEMESTER V		Hours/Week			SESSIONAL MARKS	UNIVERSITY EXAMS		CREDITS
COURSE	SUBJECT	L	T	D/P		HRS	MARKS	
08.501	Engineering Mathematics IV	3	1	0	50	3	100	4
08.502	Advanced Mathematics and Queuing Models	3	1	0	50	3	100	4
08.503	Theory of Computation	2	1	0	50	3	100	3
08.504	Systems Programming	2	1	0	50	3	100	3
08.505	Operating Systems	3	1	0	50	3	100	4
08.506	Data Communication	2	1	0	50	3	100	3
08.507	Digital Circuits Lab	0	0	4	50	3	100	4
08.508	Data Base Lab	0	0	4	50	3	100	4
TOTAL		15	6	8	400		800	29

SEMESTER VI		Hours/Week			SESSIONAL MARKS	UNIVERSITY EXAMS		CREDITS
COURSE	SUBJECT	L	T	D/P		HRS	MARKS	
08.601	Compiler Design	2	1	0	50	3	100	3
08.602	Computer Networks	3	1	0	50	3	100	4
08.603	Software Architecture	3	1	0	50	3	100	4
08.604	Internet Technology	3	1	0	50	3	100	4
08.605	Computer Graphics	2	1	0	50	3	100	3
08.606	Real Time Systems	3	0	0	50	3	100	3
08.607	Internet Lab	0	0	4	50	3	100	4
08.608	Computer Graphics Lab	0	0	4	50	3	100	4
TOTAL		16	5	8	400		800	29

Information Technology (continued)

SEMESTER VII		Hours/Week			SESSIONAL MARKS	UNIVERSITY EXAMS		CREDITS
COURSE	SUBJECT	L	T	D/P		HRS	MARKS	
08.701	Software Project Management	2	1	0	50	3	100	3
08.702	Internetworking	3	1	0	50	3	100	4
08.703	Cryptography	2	1	0	50	3	100	3
08.704	Web Application Development	2	1	0	50	3	100	3
08.705	Elective I	3	1	0	50	3	100	4
08.706	Elective II	3	1	0	50	3	100	4
08.707	Computer Networks Lab	0	0	4	50	3	100	4
08.708	Seminar/Project Design	0	0	4	100	3		4
TOTAL		15	6	8	450		700	29

SEMESTER VIII		Hours/Week			SESSIONAL MARKS	UNIVERSITY EXAMS		CREDITS
COURSE	SUBJECT	L	T	D/P		HRS	MARKS	
08.801	Mobile Computing	3	1	0	50	3	100	4
08.802	E-Commerce	3	0	0	50	3	100	3
08.803	E-Security	2	1	0	50	3	100	3
08.804	Software Testing	2	1	0	50	3	100	3
08.805	Elective III	3	1	0	50	3	100	4
08.806	Elective IV	3	1	0	50	3	100	4
08.807	Web Applications Lab	0	0	4	50	3	100	4
08.808	Project and Viva voce	0	0	4	100	3	100	4
TOTAL		16	5	8	450		800	29

Information Technology (continued)

List of Electives

Elective I

1. Design and Analysis of Algorithms
2. Simulation and Modeling
3. Principles of Programming Languages

Elective II

1. Numerical and Statistical Techniques
2. Optimization Techniques
3. Graph Theory

Elective III

1. Advanced Microprocessors
2. Network Programming
3. Web Services

Elective IV

1. Soft Computing
2. Distributed Systems
3. Data Mining

5.1.4 Mechanical Engineering

SEMESTER III		Hours/Week			SESSIONAL MARKS	UNIVERSITY EXAMS		CREDITS
COURSE	SUBJECT	L	T	D/P		HRS	MARKS	
08.301	Engineering Mathematics II	3	1	0	50	3	100	4
08.302	Humanities	3	0	0	50	3	100	3
08.303	Fluid Mechanics and Machines	4	1	0	50	3	100	5
08.304	Mechanics of Solids	3	1	0	50	3	100	4
08.305	Thermodynamics	3	1	0	50	3	100	4
08.306	Engineering Drawing							
	Part A: Machine Drawing	0	0	2	25	4	50	5
	Part B: Civil Engineering Drawing and Estimation	1		2	25		50	
08.307	Civil Engineering Lab	0	0	2	50	3	100	2
08.308	Computer Aided Drafting and Modeling Lab	0	0	2	50	3	100	2
TOTAL		17	4	8	400		800	29

SEMESTER IV		Hours/Week			SESSIONAL MARKS	UNIVERSITY EXAMS		CREDITS
COURSE	SUBJECT	L	T	D/P		Hrs	MARKS	
08.401	Engineering Mathematics III	3	1	0	50	3	100	4
08.402	Computer Programming and Numerical Methods	3	1	0	50	3	100	4
08.403	Metallurgy and Material Science	3	1	0	50	3	100	4
08.404	Manufacturing Process	3	1	0	50	3	100	4
08.405	Thermal Engineering	3	1	0	50	3	100	4
08.406	Machine Drawing	0	0	3	50	4	100	3
08.407	Fluid Mechanics and Machines Lab	0	0	3	50	3	100	3
08.408	IC Engines Lab	0	0	3	50	3	100	3
TOTAL		15	5	9	400		800	29

Mechanical Engineering (continued)

SEMESTER V		Hours/Week			SESSIONAL MARKS	UNIVERSITY EXAMS		CREDITS
COURSE	SUBJECT	L	T	D/P		Hrs	MARKS	
08.501	Engineering Mathematics IV	3	1	0	50	3	100	4
08.502	Electrical Technology	3	1	0	50	3	100	4
08.503	Theory of Machines	3	1	0	50	3	100	4
08.504	Industrial Electronics	2	1	0	50	3	100	3
08.505	Machine Tools	3	1	0	50	3	100	4
08.506	Elective I	3	1	0	50	3	100	4
08.507	Production Engineering Lab	0	0	3	50	3	100	3
08.508	Electrical and Electronics Lab	0	0	3	50	3	100	3
TOTAL		17	6	6	400		800	29

SEMESTER VI		Hours/Week			SESSIONAL MARKS	UNIVERSITY EXAMS		CREDITS
COURSE	SUBJECT	L	T	D/P		HRS	MARKS	
08.601	Metrology and Instrumentation	3	1	0	50	3	100	4
08.602	Dynamics of Machinery	3	1	0	50	3	100	4
08.603	Computer Aided Design	2	1	0	50	3	100	3
08.604	Heat and Mass Transfer	3	1	0	50	3	100	4
08.605	Design of Machine Elements I	3	1	0	50	3	100	4
08.606	Elective II	3	1	0	50	3	100	4
08.607	CAD Analysis Lab	0	0	3	50	3	100	3
08.608	Machine Tools Lab	0	0	3	50	3	100	3
TOTAL		17	6	6	400		800	29

Mechanical Engineering (continued)

SEMESTER VII		Hours/Week			SESSIONAL MARKS	UNIVERSITY EXAMS		CREDITS
COURSE	SUBJECT	L	T	D/P		HRS	MARKS	
08.701	Principles of Management and Decision Modeling	2	1	0	50	3	100	3
08.702	Mechatronics	3	1	0	50	3	100	4
08.703	Gas Dynamics	3	1	0	50	3	100	4
08.704	Refrigeration and Air Conditioning	3	1	0	50	3	100	4
08.705	Design of Machine Elements II	3	1	0	50	3	100	4
08.706	Elective III	3	1	0	50	3	100	4
08.707	Thermal Engineering Lab	0	0	2	50	3	100	2
08.708	Metallurgy and Metrology Lab	0	0	2	50	3	100	2
08.709	Project and Seminar	0	0	2	100			2
TOTAL		17	6	6	500		800	29

SEMESTER VIII		Hours/Week			SESSIONAL MARKS	UNIVERSITY EXAMS		CREDITS
COURSE	SUBJECT	L	T	D/P		HRS	MARKS	
08.801	Energy Management	2	1	0	50	3	100	3
08.802	Industrial Engineering	2	1	0	50	3	100	3
08.803	Automobile Engineering	3	1	0	50	3	100	4
08.804	Computer Integrated Manufacturing	3	1	0	50	3	100	4
08.805	Elective IV	3	1	0	50	3	100	4
08.806	Elective V	3	1	0	50	3	100	4
08.807	Industrial Seminar	0	0	2	50			4
08.808	Project and Viva voce	0	0	5	150		100	5
TOTAL		16	6	7	500		700	29

List of Electives

Elective I

1. Communicative English and technical writing
2. Human aspects of management
3. Disaster Management
4. Glimpses of world thought
5. Professional ethics and human values
6. Environmental Science
7. Advanced Welding technology
8. Foundry Technology
9. Environmental Pollution Control
10. Advanced Fluid Mechanics
11. Composite Materials Technology
12. Internet Technologies
13. Non Destructive Testing
14. Powder Metallurgy
15. Vehicle Transport and Fleet Management
16. Automotive Airconditioning
17. Two And Three Wheeled Vehicles

Elective II

1. Advanced mechanics of solids
2. New Energy systems
3. Object Oriented Programming
4. Nuclear Engineering
5. Mechanical working Methods
6. Artificial Intelligence Systems
7. System Modeling and Simulation
8. Instrumentation and control
9. Materials Handling
10. Agro Machinery
11. Total Quality Management
12. Precision Engineering
13. Advanced Manufacturing Processes
14. Material Characterisation
15. Micromachining Methods
16. Tool Engineering (MU)
17. Vehicle Body Engineering

18. Vehicle Performance And Testing
19. Automotive Fuels and Alternate Fuels

Elective III

1. Computer Graphics
2. Advanced Thermodynamics
3. Industrial Heat Transfer
4. Plant Engg and Maintenance
5. Fracture Mechanics
6. Marketing Management.
7. Entrepreneurship Development
8. Industrial Hydraulics
9. Finite Element Methods
10. Metal Forming
11. Machine tool Technology
12. Non-conventional Machining Techniques
13. Turbo Machines
14. Experimental Methods in Engineering
15. Mech. Vibration and Noise Control
16. Failure Analysis
17. Theory of Machining (MU)
18. Bio Materials
19. Concurrent Engineering
20. Industrial Automation
21. Alternate Energy Sources
22. Automotive Pollution and Control
23. Creativity, Innovation and New Product Development

Elective IV

1. Experimental Stress Analysis Techniques
2. Aerospace Engineering
3. Facilities Planning
4. Advanced Decision Modeling
5. Non linear Dynamics and Chaos
6. Design of jigs and fixtures
7. Multiphase flow
8. Controls in Machine tools
9. Design of Pressure Vessels and Piping

10. Tribology
11. Value Engineering.
12. Software Engineering
13. Cryogenic Engineering
14. Bio Medical Engineering.
15. Thermal Management of Electronic Systems
16. Continuum Mechanics
17. Product and brand management
18. Research Methodology
19. Nanotechnology
20. Automotive Technology (P)
21. High Temperature Materials
22. Industrial Safety Engineering
23. Engineering Design
24. Tractors and Farm Equipments
25. Embedded System In Automobiles
26. Computer Aided Vehicle Design

Elective IV

1. Propulsion Engineering
2. Industrial Refrigeration
3. Industrial Quality Control
4. Design of Heat transfer equipment
5. Creativity and Product Development
6. Computerized Materials Management
7. Random vibrations
8. Advanced Kinematics of Machines
9. Financial Management
10. Flexible Manufacturing Methods
11. Computational Fluid Dynamics
12. Technology Forecasting
13. Management Information Systems
14. Production and Operations Management
15. Project Management
16. Design of IC Engines
17. Robotics
18. Logistics and Supply Chain Management
19. Rapid Prototyping

20. Surface Engineering
21. Design of Cellular Manufacturing
22. Heating Ventilation and Air Conditioning Design
23. Automotive Aerodynamics
24. Off- Road Vehicles
25. Computer Simulation of IC Engine Processes.

6 Academic Calender

SEMESTER VIII		Hours/Week			SESSIONAL MARKS	UNIVERSITY EXAMS		CREDITS
COURSE	SUBJECT	L	T	D/P		HRS	MARKS	
08.801	Energy Management	2	1	0	50	3	100	3
08.802	Industrial Engineering	2	1	0	50	3	100	3
08.803	Automobile Engineering	3	1	0	50	3	100	4
08.804	Computer Integrated Manufacturing	3	1	0	50	3	100	4
08.805	Elective IV	3	1	0	50	3	100	4
08.806	Elective V	3	1	0	50	3	100	4
08.807	Industrial Seminar	0	0	2	50			4
08.808	Project and Viva voce	0	0	5	150		100	5
TOTAL		16	6	7	500		700	29

7 Members of Staff

Principal

Prof. K.P. Geetha
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 0471 (Residence)
 9447772467 (Mobile)
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7.1 Department of Electrical Engineering

7.1.1 Teaching

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Professor and Head			
Assistant Professors			
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K.L. Sreekumar	M.Tech	9446070050 (M)	
Lecturers			
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Sheeja. S	B.Tech	9447609949 (M) 225 (O)	sheeja_sh @rediffmail.com

7.1.2 Technical

NAME	PHONE	E-MAIL
Trade Instructors		
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Jose	9947077750 225 (O)	

7.2 Department of Electronics and Communication Engineering

7.2.1 Teaching

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Assistant Professors			
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Sunil Kumar. T. S	M.Tech	9847232523 (M) 210 (O)	
V. V. Sasi Kumar	M.Tech	2313482 (R) 9446403482 (M) 222 (O)	
Lecturers			
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Anu Mohammed	M.Tech	9048344991 (M) 232 (O)	

Department of Electronics and Communication Engineering (continued)

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Biju Kumar. K	0472 2829464 (R) 9447344271 (M)	
Remani	9895491870 (M)	
Trades Men		
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Binumol. T	0482 8278335 (R) 9495686188 (M) 227(O)	

7.3 Department of Information Technology

7.3.1 Teaching

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7.3.2 Technical

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7.4 Department of Mechanical Engineering

7.4.1 Teaching

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Department of Mechanical Engineering (continued)

7.4.2 Technical

NAME	PHONE	NAME	PHONE
Workshop Superintendent		Tradesmen	
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First Grade Instructor		Saji Kumar S.R	0472 2853650 (R) 9349833401 (M) 209 (O)
Joshi	9995129646 (M) 209 (O)	Sreerankan	9446036114 (M) 213 (O)
Trade Instructors		Gopakumar. S	2230143 (R) 209 (O)
Sheela. A. A	2268538 (R) 229 (O)	Shony. S	9495745685 (M) 209 (O)
Ninan. J	2724754 (R) 9446014089 (M) 209 (O)	Muhammed Shafy. A	9846868945 (M) 209 (O)
Shajahan. S	2306027 (R) 9388292099 (M) 209 (O)		
Sunil Krishnan. V. S	2705436 (R) 9446346599 (M) 209 (O)		
Sasi Kumar. V	9495304645 (M) 209 (O)		
Sudhakaran. R	0472 2191379 (R) 209 (O)		
Surendra Babu. M.D	9037465803 (M) 209 (O)		
Gopakumar T	9447481782 (M) 209 (O)		

7.5 Department of Civil Engineering

NAME	QUALIFICATION	PHONE	E-MAIL
Lecturers			
Sumi. S	M.Tech		

7.6 Department of Mathematics

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7.7 Department of Chemistry

NAME	QUALIFICATION	PHONE	E-MAIL
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7.8 Department of Physical Education

NAME	QUALIFICATION	PHONE	E-MAIL
Lecturer			
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7.9 Administrative Staff

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J. Christy	SS	2551795 (R) 9539919068 (M) 223(O)	christyj59 @gmail.com
G. K. Manjukam	SS	9995540846 (M)	
Joseph Jolly. A	Junior Superindent	2119752 (R) 9744362606 (M)	josephjollya @gmail.com

Administrative Staff (continued)

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Renjini. E	UDC	2314072 (R)	
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Ansi. B	LD Typist	2356084 (R) 9495311478 (M)	
K. Girichandran	Driver	9995476703 (M)	
S. Jayachandran	Driver	2733708 (R) 9495226218 (M)	
S. Shajahan	Driver	0472 2841113 (R) 9446218625 (M)	

Administrative Staff (continued)

NAME	DESIGNATION	PHONE	E-MAIL
Suresh Kumar. M	NTA	9895562691 (M)	
G. Rajesh Kumar	Peon HG	9447427607 (M)	
R. Vijaya kumar	Peon HG	9495901742 (M)	
M. Madhu	Peon	9446341064 (M)	
V. P. Sajeev	Peon	9809173704 (M) 7293709219 (M)	
P. Suman	Peon	0470 2657242(R) 9447857309 (M)	
C. Rinikumar	Peon	2403563 (R) 9847918486 (M)	
Rajan. M	Peon	9995580773 (M)	
Sam Stephen	Watchman	9447243335 (M)	
Safeer. A	Watchman	9895039192 (M)	
	Watchman	9048284849 (M)	
Nabeezath Beevi	FT Sweeper	9895179013 (M)	
Sumathy. K.P	FT Sweeper		
Somasundaran. T.K	FT Sweeper	9847859808 (M)	
Mohammed Hussain	PT Sweeper		
Leela. J	PT Sweeper		
Lilly Kutty	PT Sweeper	2430996 (R)	
Murleedharan. V.S	PT Sanitary Worker		

7.10 Library Staff

NAME	DESIGNATION	PHONE	E-MAIL
Joseph George	Librarian Grade I	9496814050 (M)	josephgeorge57 @yahoo.com
Mary Joseph	Librarian Grade IV	2555344 (R) 9895614572 (M)	joemaryjoseph @yahoo.co.in
Binu. G	Non Technical Attender	9388834199 (M)	
Sherly. T. K	Non Technical Attender	9846193039 (M)	
Robinson	Non Technical Attender	9895033921 (M)	

8 ENGINEERING COLLEGES IN KERALA

8.1 Under the Directorate of Technical Education (DTE)

8.1.1 Government

NAME	PHONE
Government Engineering College Painavu Idukki	0486 2233250
Government Engineering College Kozhikode	0495 2383220
Government College of Engineering Kannur	0497 2780226
Rajiv Gandhi Institute Of Technology Pampady, Kottayam	0481 2506153
Government Engineering College Sreekrishnapuram Palakkad	0466 2260350
Government Engineering College Trissur	0487 2334144
Government Engineering College Barton Hill Thiruvananthapuram	0471 2300485
College Of Engineering Thiruvananthapuram	0471 2598370
Government Engineering College Mananthavady Wayanad	04935 271261

8.1.2 Aided

NAME	PHONE
Mar Athanasius College Of Engineering Kothamangalam	0485 2822363
NSS College Of Engineering Akathethara, Palakkad	0491 2555255
TKM College Of Engineering Kollam	0474 2712022

8.2 Under The Kerala Agricultural University (KAU)

NAME	PHONE
College Of Diary Science and Technology Mannuthy, Trissur	0487 2372861
Kelappaji College of Agril.Engineering and Technology Tavanur, Malappuram	0494 2686214

8.3 Self-Financing Colleges Under The Institute of Human Resource Development (IHRD)

NAME	PHONE
College Of Engineering Adoor Pathanamthitta	04734 230640
College Of Engineering Attingal Thiruvananthapuram	0470 2627400
College Of Engineering Pallippuram Cherttala	0478 2553416
College Of Engineering Kottarakara Kollam	0474 2453300
College Of Engineering Chengannur Alappuzha	0479 2451424
College Of Engineering Karunagapally Kollam	0476 2665935
Model Engineering College Trikkakara Ernakulam	0484 2577379
College Of Engineering Poonjar Kottayam	0482 2271737
College Of Engineering Kallooppara Pathanamtitta	0469 2678983

8.4 Self-Financing Colleges

Under The Lal Bahadur Sastri Centre For Science and Technology (LBS)

NAME	PHONE
LBS College Of Engineering Muliyar Kasargod	04994 250290
LBS Institute of Technology For Women Poojappura, Thiruvananthapuram	0471 2349232

8.5 Self-Financing Colleges

Under The Co-operative Academy of Professional Education (CAPE)

NAME	PHONE
College Of Engineering Kidangoor Kottayam	04822 255056
College Of Engineering Perumon Kollam	0474 2550400
College Of Engineering and Management Punnappa Alappuzha	0477 2267311
College Of Engineering Trikarapur Kasargod	04672250750
College Of Engineering Thalassery Kannur	0490-2307190
Co-operative Institute of Technology Vadakara Kozhikode	0496 2536125

9 ANNEXURE

9.1 Application for Leave

9.2 Application for Duty Leave

10 IMPORTANT TELEPHONE NUMBERS

Director of Technical Education

Reception	0471 2561200
	0471 2451741
Director	0471 2451369
	0471 2561222
CA to Director	0471 2561307
Senior Joint Director ECS	0471 2451747
Director SPFU	0471 2463822
Finance Officer	0471 2452485
Administrative Officer	0471 2451246

Collegiate Education

Director	0471 2303548
Reception	0471 2303107

University of Kerala

Vice Chancellor	0471 2306634
Registrar	0471 2305631
Controller of Examinations	0471 2305946
Enquiry	0471 2305994

Government Polytechnics

Central Polytechnic, Vattiyoorkavu	0471 2360391
Women's Polytechnic, Karamana	0471 2491682
Government Polytechnic, Attingal	0470 2622643
Government Polytechnic, Neyyatinkara	0471 2222935
Government Polytechnic, Nedumangad	0472 2812686

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	0471 2321228
Principal Secretary Higher Education.	0471 2328416
Enquiry	0471 2336576
Finance Secretary	0471 2518521
V. Surendran Pillai, MLA	0471 2512256
Kunnukuzhy Manoharan, Counsellor	0471 23392507
Entrance Commissioner	0471 2338487
JCTE, Kaimanam	0471 2492032
Friends	0471 2338652
KSEB (Enquiry)	0471 155333
Assistant Executive Engineer (PWD)	0471 2303412
	9847102278
Water Supply Enquiry	0471 2479502
Information Center	0471 2518471
GPO	0471 2473071
BSNL Fault Repair	0471 2442198
Finger Tips	0471 2722722

Hospitals

Medical College	0471 2444270
General Hospital	0471 2303870
Cosmopolitan Hospital	0471 2448182
KIMS Hospital	0471 2447575
GG Hospital	0471 2557744
PRS Hospital	0471 2344443
SUT Hospital	0471 2446220
SP Fort Hospital	0471 2450540
Anadiyil Hospital	0471 2304086

Police

Control Room	100
	0471 2331843
Help Line	9622100100

Telephone Numbers (continued)

Railways

Enquiry	131
Trivndrum Central	0471 2323066
Reservation Center, Pattom	0471 2542130