

Semester- III

Course Code	Subjects	Credits
EL3CRT06	Analog Communication	4
EL3CRT07	Analog ICs and Applications	4
EL3CRP04	Analog Electronics Circuits Lab- Practical	2
EM3CRT02	Microprocessor Architecture, Programming and applications	3
EM3CRT03	Operating system Concepts	4
MM3CMT03	Vector Calculus, Analytic Geometry And Abstract Algebra	4

Semester- IV

Course Code	Subjects	Credits
EL4CRT12	Digital Communication	4
EL4CRT13	Instrumentation Electronics	4
EM4CRT04	Fundamentals of Computers	4
EM4CRP02	Intel 8085 Assembly language Programming Lab- Practical	2
EM4OJP01	On The Job Training	2
MM4CMT04	Fourier Series, Laplace Transform And Complex Analysis	4

Semester- V

Course Code	Subjects	Credits
EL5CRT14	Microcontrollers and Applications	4
EL5CRT15	Environmental awareness, E-Waste Management and human rights	4
EL5CRP07	Communication Lab – Practical	2
EM5CRT05	PC Maintenance and Troubleshooting	4
EM5CRP03	PC Hardware Lab	2
EM5OPTXX	Open Course	3

Semester- VI

Course Code	Subjects	Credits
EL6CRT18	Computer Networks	4
EM6CRT06	Intel 8086 Microprocessor and Programming	4
EM6CRP04	Intel 8086 Assembly language Programming Lab	2
EM6CRT07	Entrepreneurship Development and marketing	3
EM6CBTXX	Choice Based Course	4
EM6PRP01	Project Lab	3

For further information, contact :

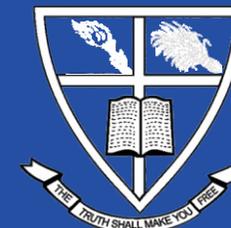
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UNION CHRISTIAN COLLEGE

Aluva-683102, Kerala, India (Estd. 1921)

(Re-accredited with 'A' Grade by NAAC)

DEPARTMENT OF ELECTRONICS AND COMPUTER MAINTENANCE

(Self Financing Course Affiliated to Mahatma Gandhi University)



PROSPECTUS

Union Christian College...

The story of a dream fulfilled..

Dreams need not necessarily transform into realities, it does, at times...

In 1921, it all started as a virtuous yearning by four young pioneers...

With the motto drawn from a statement by Jesus Christ to the Jews,

“you will know the truth and the truth shall make you free...”

In a room loaned by a seminary and in an old court building gifted by the then

Maharajah of Travancore...

With 60 students and a handful of teachers...

Now, Union Christian College has achieved accolades beyond the dreams of its

founding fathers...

With 15 undergraduate and 14 postgraduate programmes...

9 centers for doctoral research...

It's a story of inspiration, perspiration, perseverance and dedication.

We welcome you to be part of it .

B.Sc Electronics and Computer Maintenance (E & CM)

B.Sc Programme in Electronics and Computer Maintenance is a two core courses programme under choice based credit system. It was started in 2001 as a UGC sponsored vocational course. Now it is run as a self financing course.

E & CM programme in our college is among the best vocational course in the Mahatma Gandhi University as far as course content, results and campus placements are concerned. This job oriented programme aims at providing a strong foundation for skill development in electronic circuit designing, software development, assembling, troubleshooting and maintenance of computers with the objective to equip student to pursue careers in Electronics, IT and Computer Hardware related fields or to go in for higher studies in the related disciplines and also to enable students to start an enterprise of their own.

Admission

The eligibility for admission to B.Sc Electronics and computer Maintenance under the Mahatma Gandhi University, is a pass in Science stream with Mathematics and Physics as compulsory subjects for Plus Two or any other examination declared as equivalent there to. There are 36 seats, of which 18 shall be filled through the

centralized allotment process of Mahatma Gandhi University and the remaining 18 shall be filled by the management. This is a three year undergraduate programme spread over six semesters. There will be University examination at the end of each semester in addition to the continuous internal evaluation.

Programme Structure

The U.G programme in Electronics and Computer Maintenance include (a) Common course in English (b) Core courses in Electronics, Computer Maintenance, Computer Science (c) Complementary course in Mathematics (d) Open courses (e) Seminar and (f) Project.

On The Job Training (OJT)

In addition to the regular classroom and laboratory sessions, the students are required to undergo thirty hours of job-oriented training at centers associated with IT/Electronics Industry.

Scope of Higher Studies

This is a job-oriented programme with scope for admission to P.G course like MCA, M.Sc Computer Science, M.Sc Electronics and MBA.

Distribution of courses for B.Sc Electronics and Computer Maintenance

Semester- I

Course Code	Subjects	Credits
EN1CCT01	English – I, Fine tune your English	4
EL1CRT01	Basic Electronics	4
EL1CRT02	Methodology of Science	4
EL1CRP01	Basic Electronics Lab – Practical	2
EM1CRT01	C Programming	4
MM1CMT01	Partial Differentiation, Matrices, Trigonometry and Numerical methods	3

Semester- II

Course Code	Subjects	Credits
EN2CCT03	English II– Issues that matter	4
EL2CRT03	Electronic circuits	4
EL2CRT05	Digital Electronics	4
EL2CRP02	Digital Electronics Laboratory Practical	2
EM2CRP01	C Programming Lab	2
MM2CMT02	Integral Calculus and Differential Equations	3