

# COLLEGE OF ENGINEERING, CHENGANNUR

## MANDATORY DISCLOSURE

**“The information has been provided by the concerned institution and the onus of authenticity lies with the institution and not on AICTE.”**

### **I. NAME OF THE INSTITUTION**

COLLEGE OF ENGINEERING CHENGANNUR  
Chengannur P.O, Alappuzha (Dist.)  
Kerala- 689 121  
Ph: 0479-2454125(Office), 2456046 (Principal)  
Fax: 0479-2451424  
e-mail: *principal@ceconline.edu*

### **II. NAME & ADDRESS OF THE DIRECTOR**

Dr. P. Suresh Kumar,  
Director,  
Institute of Human Resources Development,  
Prajoe Towers, Vazhuthacaud P.O.,  
Trivandrum, Kerala – 695 014  
Ph: 0471 2322985(Office), 2320662 (Director)  
Fax: 0471-2322035  
e-mail: *director@ihrdkerala.org*

### **III. NAME OF THE AFFILIATING UNIVERSITY**

Cochin University of Science & Technology  
Cochin University P.O.  
KERALA, Pin – 682 022

### **IV. GOVERNANCE**

College of Engineering Chengannur is functioning under the administrative control of the Institute of Human Resources Development (IHRD) which is an educational agency fully owned and controlled by Government of Kerala. The management of the institution is vested with the Governing Body and the Executive Committee headed by the Minister for Education, Government of Kerala as Chairman. The Chief Secretary of the state is the Vice-Chairman of the Governing Body. Principal Secretary to Government, Higher Education department is the Vice-Chairman of the Executive Committee. The constitution of the Executive Committee and Governing body is decided by Government vide separate Government orders.

The institution is affiliated to Cochin University of Science and Technology (CUSAT) for its academic programs.

## V. PROGRAMMES

The following AICTE approved and NBA accredited (F.No.770-54-203/RC/94) UG & PG programmes are conducted in the institution.

### ***Annual Intake for Full Time U G Courses are***

|   |                  |
|---|------------------|
| BTech Degree in Computer Science and Engineering            | <b>120 Seats</b> |
| BTech Degree in Electronics and Communication Engineering   | <b>120 Seats</b> |
| BTech Degree in Electrical & Electronics Engineering        | <b>120 Seats</b> |
| BTech Degree in Electronics and Instrumentation Engineering | <b>60 Seats</b>  |

The programme is of eight semester duration. The admission is strictly based on the rank secured by the candidate in the Common Entrance Test (CET) conducted every year by the Commissioner for Entrance Examinations (CEE), Kerala. The fee structure is decided by the Government of Kerala, revised from time to time and it remains unchanged for a student once he/she is admitted in the institution.

### ***Annual Intake for Full Time PG Courses are***

|  |                 |
|--|-----------------|
| M. Tech.(Electronics) with specialization in VLSI & Embedded Systems | <b>24 seats</b> |
| M.Tech (Computer Science)) with specialization in Image Processing   | <b>24 seats</b> |

Duration of the course is four semesters.

The projects are undertaken by the students of undergraduate and post graduate programmes during the final year. In order to ensure the quality of the projects most of the projects will be carried out in the college. In addition, some projects will also be undertaken with collaborations with R&D institutions like VSSC, NPOL, RGCB, C-DAC, Wipro and SCTIMST.

A well-structured Training and Placement Cell (TPC) is functioning in the institution under the guidance of faculty members with active participation of student representatives. Multinational companies are regularly visiting the campus for recruitment.

## VI. FACULTY

Branch wise list of faculty members is given in the following table. The current ratio of permanent faculty to students is 1:20.6, the ratio of all full time teachers to students being 1:13.7. New recruitment process is under active consideration of the Governing Body for filling up of existing vacancies.

### ***Details of the Full Time Teaching Faculty (Programme wise)***

| S.No | Name (s) of the Teaching Faculty | Designation<br>(Lecturer/ Asst. Professor/ Professor) | Qualifications with field of specialization |                               |      |
|------|----------------------------------|---|---|-------------------------------|------|
|      |                                  |   | UG  | PG                            | P.hD |
| 1.   | Dr. V P Jyothiraj                | Principal   | B. Tech (EC)                                | M. Tech (EC)                  | P.hD |
| 2.   | Dr. Nisha Kuruvilla              | Professor in Electronics Engg                         | B. Tech (EC)                                | M. Tech (EC)                  | P.hD |
| 3.   | Dr. Sarah Jacob                  | Associate Professor (Electronics)                     | B. Tech (EC)                                | M. Tech (EC)                  | P.hD |
| 4.   | Smt. Deepa V S                   | Associate Professor (Electronics)                     | B. Tech (EC)                                | M. Tech (EC)                  |      |
| 5.   | Smt. Shiji T P                   | Associate Professor (Electronics)                     | B. Tech (EC)                                | M. Tech (EC)                  |      |
| 6.   | Sri. Philip Cherian              | Associate Professor in Electronics Engg               | B. Tech (EC)                                | M. Tech (EC)                  | -    |
| 7.   | Sri. Ayobkhan T E                | Associate Professor (non-cadre) (Electronics)         | B. Tech (EC)                                | M. Tech (EC)                  |      |
| 8.   | <b>Smt.P.M.Laghima</b>           | Assistant Professor (Electronics)                     | B.Tech (EC)                                 | M. Tech (EC)                  | -    |
| 9.   | Sri. Liju Philip                 | Assistant Professor (Electronics)                     | B.E (EC)                                    | M. Tech (EC)                  | -    |
| 10.  | Sri. Sam K Sumesh                | Assistant Professor (Electronics)                     | B. Tech (EC)                                | -                             | -    |
| 11.  | Sri. Jibu J V                    | Assistant Professor (Electronics)                     | B. Tech (EC)                                | M. Tech (EC)-                 | -    |
| 12.  | Sri. Reju John                   | Assistant Professor (Electronics)                     | B. Tech (EC)                                | -                             | -    |
| 13.  | Sri. Manoj Kumar P               | Assistant Professor (Electronics)                     | B. Tech (EC)                                | M. Tech (EC)--                | -    |
| 14.  | Smt. Deepa Susan Jacob           | Assistant Professor (Electronics)                     | B. Tech (EC)                                |                               |      |
| 15.  | Smt. Dhivya Raj                  | Assistant Professor (Electronics)                     | B. Tech (EC)                                | M. Tech (EC)--                |      |
| 16.  | Smt. Darsana S                   | Assistant Professor (Electronics)                     | B. Tech (EC)                                |                               |      |
| 17.  | Smt. Varsha P S                  | Assistant Professor (Electronics)                     | B. Tech (EC)                                | M. Tech (EC)--                |      |
| 18.  | Sri. Saji Kumar T V              | Assistant Professor (Electronics)                     | B. Tech (EC)                                |                               |      |
| 19.  | Smt. Anupama A                   | Assistant Professor (Electronics)                     | B. Tech (EC)                                |                               |      |
| 20.  | Dr. Smitha Dharan                | Professor in Computer Engg.                           | B. Tech (CS)                                | M. Tech (CS)                  | P.hD |
| 21.  | Sri. Gopakumar G                 | Associate Professor (Computer)                        | B. Tech (CS)                                | M. Tech (CS)                  |      |
| 22.  | Smt. C Jyothirmayi Devi          | Assistant Professor (Computer)                        | B. Tech (CS)                                | M. Tech (CS)                  | -    |
| 23.  | Smt. Renu George                 | Assistant Professor (Computer)                        | B. Tech (CS)                                | M. Tech (CS)                  | -    |
| 24.  | Smt. V R Rejani                  | Assistant Professor (Computer)                        | B. Tech (CS)                                | -                             | -    |
| 25.  | Sri. Vinod P R                   | Assistant Professor (Computer)                        | B. Tech (CS)                                | M. Tech (CS)                  | -    |
| 26.  | Smt. Manjusha Nair S             | Assistant Professor (Computer)                        | B. Tech (CS)                                | M. Tech (CS)                  | -    |
| 27.  | Smt. Shiny B.                    | Assistant Professor (Computer)                        | B. Tech (CS)                                | M. Tech (CS)                  | -    |
| 28.  | Smt. Sony P                      | Assistant Professor (Computer)                        | B. Tech (CS)                                | M. Tech (CS)                  |      |
| 29.  | Smt. Sreeja P                    | Assistant Professor (Electrical).                     | B. Tech (EE)                                | M.Tech (EE)<br>result awaited | -    |
| 30.  | Sri. Sreejith S                  | Assistant Professor (Electrical)                      | B. Tech (EE)                                | M.Tech (EE)<br>result awaited |      |
| 31.  | Smt. Savitha K P                 | Assistant Professor (Electrical)                      | B. Tech (EE)                                | M.Tech (EE)<br>result awaited |      |
| 32.  | Sri. Biju Kumar K                | Assistant Professor (Electrical)                      | B. Tech (EE)                                |                               |      |
| 33.  | Dr. Suresh Kumar N               | Associate Professor (Mechanical)                      |   |                               | P.hD |
| 34.  | Dr. T V Ashok Kumar              | Associate Professor (non-cadre) (Mechanical)          | B. Tech (ME)                                | M. Tech (ME)                  | P.hD |
| 35.  | Sri. Prakas N                    | Associate Professor (Mechanical)                      | B. Tech (ME)                                | M. Tech (ME)                  |      |
| 36.  | Sri. Jayadeep Kumar J            | Assistant Professor (Mechanical)                      | B. Tech (ME)                                | M. Tech (ME)                  |      |
| 37.  | Sri. Mohammed Shapheek           | Assistant Professor (Mechanical)                      | B. Tech (ME)                                | -                             | -    |
| 38.  | Sri. Sujith Kumar P              | Assistant Professor (Mechanical)                      | B. Tech (ME)                                | M. Tech (ME)                  |      |
| 39.  | Dr. C Sheela (on leave)          | Assistant Professor (Mathematics)                     | B Sc<br>B Ed                                | M Sc                          | PhD  |
| 40.  | Sri. Suresh Kumar G              | Associate Professor (non-cadre) (Mathematics)         | B Sc<br>B Ed                                | M Sc                          |      |
| 41.  | Sri. Rubon L                     | Lecturer in Mathematics<br>(Sl.Gr.)                   | B Sc<br>B Ed                                | M Sc<br>M. Phil,              | -    |

|     |                         |   |              |                     |      |
|-----|-------------------------|---|--------------|---------------------|------|
| 42. | Smt. Sheeba Joseph      | Associate Professor (non-cadre) (Mathematics) | B Sc<br>B Ed | M Sc<br>M. Phil,    |      |
| 43. | Smt. Rani Vijaya G L    | Associate Professor (non-cadre) (Mathematics) | B Sc<br>B Ed | M Sc<br>M. Phil,    |      |
| 44. | Dr R Madhusoodanan Nair | Professor (non-cadre)<br>(Physics)            | B Sc<br>B Ed | M Sc<br>M. Phil,    | P.hD |
| 45. | Smt. Pushpa L           | Associate Professor (non-cadre) (Chemistry)   | B Sc<br>B Ed | M Sc<br>M Phil      |      |
| 46. | Dr. C R Ajith Sen       | Professor (non-cadre)<br>(Physical Education) | BA<br>B P Ed | M. P Ed,<br>M. Phil | P.hD |

CS : Computer Science & Engineering  
 EE : Electrical Engineering  
 EC : Electronics & Communication Engineering

## VII. PRINCIPAL PROFILE

### JYOTHIRAJ V.P

Kannaveedu  
 Mathilil P O  
 Kollam, Kerala  
 Ph. 04742705553(Resi.)  
 09847146347(Mob.)  
 D.O.B: 27.06.63, Nationality: Indian  
 Marital Status: Married

**Principal (in charge)**  
 (Professor in  
 Electronics Engineering)  
 College of Engineering  
 Chengannur  
 04792456046  
 jyothiraj@ceconline.edu

### Details of Qualifications

| Qualification | Branch/Specialization   | Year | College/University  | Division    |
|---------------|---|------|---|-------------|
| B. Tech       | Electronics & Communication Engineering                       | 1986 | TKM College of Engineering, Kollam University of Kerala         | First Class |
| M. Tech       | Electronics & Communication Engineering (Applied Electronics) | 1991 | College of Engineering, Thiruvananthauram, University of Kerala | First Class |
| PhD           | Electronics and Communication Engineering                     | 2014 | College of Engineering, Thiruvananthauram, University of Kerala | -           |

### Professional Experience

Total Teaching Experience: 28 Years, 3 Months and 5 Days

### IHRD (College of Engineering, Chengannur)

1. Assistant Professor in Electronics from 19.02.1999 to 31.12.2005
2. Associate Professor in Electronics from 01/01/2006 to 09/09/16
3. Professor in Electronics from 09/09/2016 to till date

**Total Experience in IHRD: 18 Years, 2 Months and 10 Days**

**TKM College of Engineering, Kollam**

4. Lecturer in Electronics and Communication Engineering, TKM College of Engineering, Kollam from 16.11.1987 to 25.01.1988, 03.02.1988 to 30.03.1988 and 01.06.1988 to 29.02.1994
5. Lecturer (Senior Scale) in Electronics and Communication Engineering, TKM College of Engineering, Kollam from 1.03.1994 to 18.02.1999

**Total Experience in TKMCE, Kollam: 11 Years and 25 Days**

**Positions Held :**

1. Principal (in charge), College of Engineering, Chengannur
2. Head of the Department (Electronics Engineering), CE, Chengannur
3. Convener, Alappuzha-Pathanamthitta Cluster (for PG studies) under APJ Abdul Kalam Technological University
4. Academic in Charge (Full), College of Engineering, Chengannur
5. TEQIP Nodal Officer-Academic Activities (TEQIP I), College of Engineering, Chengannur
6. Member, Board of UG Studies in Engineering (CUSAT)
7. Camp Officer- UG/PG Examinations under KTU
8. Officer-in-Charge, Placement and Training Cell, College of Engineering, Chengannur
9. Principal Co-ordinator, Additional Skill Acquisition Programme (ASAP)  
(Initiative of Higher Education Dept., Govt. of Kerala)

**Professional Membership** : Life member of Indian Society for Technical Education (ISTE)

**Publications**

National Conference : 2 Nos.  
International Conference : 9 Nos.  
International Journal : 1

**Courses coordinated**

1. ISTE STTP on 'CRM Strategies for Technical Institutions' during 2 January 2003 to 15 January 2003
2. IEEE Solid State Circuit Society sponsored National Workshop on "Advanced Nano Scale Device Design using TCAD during 28 December- 1 January 2016
3. IHRD FDP on Virtual Instrumentation during 5 September – 9 September 2016
4. IHRD FDP on Design and Engineering during 23 January – 28 January 2017

**Short term Courses / Workshops /Training Programmes**

No. of Programmes attended : 21 Nos.

| <b>Sl no.</b> | <b>Name of Course/training Programme</b>                       | <b>Organzing Institute</b>   | <b>Duration</b>                                      |
|---------------|--|--|--|
| 1             | Microprocessors with advanced architecture                     | TKM College of Engineering, kollam   | 14 <sup>th</sup> to 27 <sup>th</sup> may 1989        |
| 2.            | Local Area Networks  | Ramanujan Computing Centre College of Engineering, Anna university, Madras | 16 <sup>th</sup> to 30 <sup>th</sup> December 1991   |
| 3..           | Computer Vision systems and Image processing                   | Govt. College of Technology, Coimbatore                                    | 16 <sup>th</sup> to 29 <sup>th</sup> November 1992   |
| 4.            | Digital techniques in instrumentation                          | T K M College of Engineering, Kollam                                       | 18 <sup>th</sup> to 31 <sup>st</sup> may 1992        |
| 5.            | Parallel Processing techniques For Computer Vision and Display | Dept. of Computer science CUSAT  | 17 <sup>th</sup> to 29 <sup>th</sup> may 1993        |
| 6.            | Neuro Fuzzy Systems in Electrical and Electronics Engineering  | T K M College of Engineering, Kollam                                       | 30 <sup>th</sup> oct to 12 <sup>th</sup> Nov 2000    |
| 7.            | Internet and E-Commerce  | College of Engineering, Chengannur   | 18 <sup>th</sup> to 31 <sup>st</sup> Dec 2000        |
| 8.            | VHDL & Simulation tools  | College of Engineering Trivandrum  | 19 <sup>th</sup> Feb to 3 <sup>rd</sup> March 2001   |
| 9.            | Signals and Systems and DSP                                    | College of Engineering Trivandrum  | 29 <sup>th</sup> May to 7 <sup>th</sup> June 2002    |
| 10.           | Introduction to ANN and Engineering applications               | IISc Bangalore   | 29 <sup>th</sup> July to 2 <sup>nd</sup> August 2002 |
| 11.           | Recent Advances in biomedical Diagnostic techniques            | MA College of Engineering Kothamangalam                                    | 11 <sup>th</sup> to 23 <sup>rd</sup> Nov 2002        |
| 12            | CRM Strategies for Technical Institutions                      | College of Engineering, Chengannur   | 2 <sup>nd</sup> to 15 <sup>th</sup> Jan 2003         |
| 13.           | Virtual instrumentation  | Madras Institute of Technology Anna university                             | 24 <sup>th</sup> to Nov 2003                         |
| 14.           | Digital Signal Processing                                      | College of Engineering Trivandrum  | 15 <sup>th</sup> NOV to 27 <sup>th</sup> Nov 2004    |
| 15.           | VLSI Technology & Dsign  | College of Engineering, Chengannur   | 17 <sup>th</sup> to 21 <sup>st</sup> February 2009   |
| 16.           | Workshop on ARM Processors & Applications                      | T K M College of Engineering, Kollam                                       | 16 <sup>th</sup> -17 <sup>th</sup> December 2009     |
| 17.           | Linear Algebra and applications                                | College of Engineering, Karunagappally                                     | 28 <sup>th</sup> to 30 <sup>th</sup> October 2015    |
| 18.           | Workshop on Machine Learning Algorithms                        | College of Engineering, Perumon  | 16 <sup>th</sup> to 20 <sup>th</sup> November 2015   |
| 19.           | Robotics and Embedded Systems                                  | Govt. Engineering College, Barton Hill Thiruvananthapuram                  | 30 <sup>th</sup> Nov to 5 <sup>th</sup> Dec 2015     |
| 20.           | Biomedical Signal Acquisition and conditioning                 | Amritha Scool of Engineering, Coimbatore                                   | 17 <sup>th</sup> to 19 <sup>th</sup> December 2015   |
| 21.           | Advance Nano-Scale Device Design Using TCAD                    | College of Engineering, Chengannur   | 28 <sup>th</sup> Dec to 1 <sup>st</sup> January 2016 |

## **VIII. FEE**

The fee structure of the programme is decided by the Govt. of Kerala every year before the commencement of admission process. Once admitted, the fee structure of a student remains the same throughout the period of his/her study provided the student finishes the coursework within duration of 8 consecutive semesters. 50% of seats are designated as free-ship seats for which fee at lower rate is collected and the remaining 50% is designated as full fee seats for which fee as proposed by Justice K.T. Thomas Commission is charged, with concession if any, approved by Government of Kerala.

Tuition fee and university fee are collected yearly as one installment. In addition, Examination fee to be remitted at the university is collected every semester and the amount depends on the prevailing university rates and the number of papers registered by the student in each examination (<http://www.cusat.ac.in>). All the SC/ST/OEC students are exempted from payment of fees as per Govt. norms.

## **IX. ADMISSION AND ADMISSION PROCEDURE**

Admission to both free-ship and full fee quota are strictly based on the rank secured by the student in the CET conducted every year by the CEE, Govt. of Kerala. 50% seats are called free ship seats and the remaining 50% are full fee seats. Free ship category includes the statutory reservation categories and economically backward communities. Admission to all seats is conducted by CEE through an online counseling based on the rank secured by the candidate in the CET. The detailed procedure, time schedule and select list of candidates will be published in the respective web sites, <http://cee-kerala.org> or <http://www.ihrdkerala.org>. This year onwards 15% seats are reserved for NRI students and the admission is based on the marks secured in the +2 level examinations.

Diploma students are admitted to the third semester as per rules under lateral entry scheme.

## **X. CRITERIA AND WEIGHTAGES FOR ADMISSION**

The criteria for B.Tech degree admission is prescribed by the CEE, Govt. of Kerala and concerned university, issued every year by Govt. of Kerala through common prospectus for admission to professional degree courses. The eligibility of students is stipulated strictly as per AICTE guidelines.

M.Tech Degree admission is based on the rank list published by Directorate of Technical Education (DTE). The above criteria are not applicable to sponsored candidates. In case seats remain vacant due to lack of candidates from DTE rank list, candidates with valid gate score will be considered. In the case of sponsored candidates minimum of 2 years experience is required after acquiring qualifying degree in a job where the minimum eligibility is the qualifying degree.

## **XI. APPLICATION FORM**

Details will be made available in the website of CEE/IHRD/CEC as per time schedule announced by CEE. Since the seats are allotted through online counseling no separate application form is needed except for NRI seats.

## XII. LIST OF APPLICANTS

Being online centralized admission, the relevant details will be made available in the web sites while the admission procedure is in progress.

## XIII. INFORMATION ON INFRASTRUCTURE AND OTHER RESOURCES AVAILABLE

### (I) LIBRARY:

Number of library books  
 Title : 11016  
 Volume : 22970  
 Number of Journals subscribed (print) [[List added as Appendix 2](#)]  
 National : 54  
 International : 5  
 Digital Library : IEL Online Electronic Library (all IEEE/IEE publications are available for referring and downloading via Internet

: DELNET – Developing Library Network for referring to bibliographic information and availing online documents via Internet

### (II) LABORATORY / WORKSHOP FACILITIES:

|    | Name of the laboratory/workshop                    | Total Area of lab/ workshop | Major Equipment   |
|----|--|-----------------------------|---|
| 1. | Electrical Machines Lab                            | 180                         | <i>Induction Motor (1<math>\phi</math>, 3<math>\phi</math>), Universal Motor, D.C Series &amp; Shunt Motor, DC Generator, DC Motor &amp; AC Generator, Static Rectifier Unit</i>  |
| 2. | Communication/Digital Lab                          | 100                         | <i>Microwave Test Bench, RF Signal Generator ,Optical Fiber Trainer Kit, Antenna Trainer System, CROs, Digital IC Tester, Function Generators and Video lessons of various topics, Satellite trainer system, Mobile trainer system ,Microwave Trainer System.</i> |
| 3. | Electronics Circuits Lab I / Basic Electronics Lab | 100                         | <i>CROs, Function Generators, Power Supplies, Digital MultiMeter</i>  |
| 4. | Electronics Circuits Lab II                        | 100                         | <i>Digital Storage Oscilloscope, LCR Meter, Digital millimeters, PLC, CROs, function generators, Electronic component testers ,powerscope.</i>  |
| 5. | Project Lab Electronics                            | 200                         | <i>Digital storage Oscilloscope,P4 systems, universal programmer, spectrum analyzer, logic analyzer, 500MHz digital Oscilloscope, LCD projector, Software's – MAT LAB 6.5, Xilinx, ORCAD, MATH CAD – 13,powerscope.</i>   |
| 6. | Microprocessor Lab                                 | 100                         | <i>Microprocessor Trainer Kit (8086/8085) Digital Storage Oscilloscope and various interfacing cards, Micro controller kits</i>   |



|     |                                      |     |  |
|-----|--------------------------------------|-----|--|
| 7.  | CAD1 LAB / IEEE Centre of Excellence | 100 | <i>AMD Athlon XP 2000+ HCL systems, 5 KVA UPS, an integrated EDA Software Package (EDWin XP Campus License), Lab view software and its related hardware, PCB Prototyping Machine with PTH unit, Multi axis Robots, ISE Software ,FPGA/CPLD Development Boards(Sparton II &amp; Sparton III series)<br/><br/>Universal programmer, Bench power supply and various tools for electronic product development</i>  |
| 8.  | Mechanical Workshop                  | 250 | <i>Welding Transformer, Circular Saw Machine, Power Hack Saw Machine and Drilling Machine</i>  |
| 9.  | Electrical Workshop                  | 250 | <i>Various tools for wiring practice</i>   |
| 10. | Computer Lab I&II                    | 250 | <i>AMD Athlon XP 2800 Server, Tablet PC, Laptop Computers, P-IV Computer Systems, Rack mountable Server, Printers, Digitizer, Projectors, MSDN Academic alliance (Campus License), Windows 2000 Server &amp; Professional, Microsoft Office Professional.<br/>SUN Netra Server with workstations, Scanner, Web Cams, Borland J Builder, Norton Antivirus network edition Visual C++<br/>Intel Xeon Server Systems , AMD Athlon XP 2600 Systems, Microprocessor Trainer Kits - 8086, Trainer Kits- Z80. AS/400 System, OS 400, RPG 400, COBOL 400, DB2 Antivirus<br/>Windows Vista<br/>Adobe Creative Suite 3D Studio, Rational Rose.</i> |
| 11. | Computer Lab III                     | 125 |  |
| 12. | Computer Lab IV                      | 100 |  |
| 13. | Computer Lab V                       | 150 |  |
| 14. | Computer Lab VI                      | 75  |  |

### (iii) COMPUTING FACILITIES:

The computing facility comprises of more than 240 computer systems of various configurations including server systems, tablet PC, laptop computers, Pentium-IV machines etc. 220 systems are connected through Local Area Network including wireless connectivity. Two 1Mbps broadband connections exist in the campus with a separate backup connectivity of 512Kbps. Major software packages available are MSDN Academic Alliance (campus license), MATLAB 6.5, OrCad 10.1, EDWin XP (Campus License), Lab view virtual Instrumentation set up, Oracle 10G, and Xilinx FPGA development tools. The special purpose facilities available are Rack Mountable server and Sun Netra server.

### (iv) GENERAL FACILITIES:

Instructional Area: (1870 m<sup>2</sup>)

- class rooms - 17
- seminar/tutorial rooms - 03
- drawing hall - 01

Games & Sports:

- Football Court (Fives)
- Hand ball court
- Shuttle badminton floodlit court - 02
- Basket ball court
- Cricket net facilities
- Table tennis
- Recreational room with carom board and Chess
- Volley ball court

Co-Curricular Activities:

- Technical forums/organizations like IEEE student Chapter, ISTE student and staff chapters, Electronics Students Association (ExESS), Computer Students Association (FOCES), Product Design &

development Centre (PRODDEC). Technical forums conduct a variety of programmes where students have an opportunity to enhance managerial and organizational skills.

- Non technical forums like NSS, Forestry Club (Aaranyam), Social Service Club (Santhvanam)
- Health care centers like well-equipped Health Club and Yoga Centre

Others:

- Language development centre
- EDUSAT satellite based interactive class room set up to facilitate attending expert lectures by external faculty.
- Computerized examination cell for conducting internal and university examinations
- Well equipped Computer Aided Design Centre with state of the art EDA Tools and fully automated PTH PCB prototyping setup.
- Laptops issued to students for independent developmental/Project Works
- Multiaxis robotic systems.
- E-learning centre with more than 400 numbers of computer based tutorials.

### **(v) Teaching learning process**

The College is affiliated to Cochin University of Science and Technology, following the curriculum and syllabi of the university. The programme is conducted with a time span of 8 semesters comprising of 39 theory papers, 12 laboratory courses, 1 seminar, 1 minor project and 1 major project. The scheme of evaluation includes both internal assessment and university examination. The laboratory sessions and project works are continuously evaluated for awarding the grades. The internal evaluation for the theory subjects is done with the help of two formal series examinations in each semester, various assignments and surprise test papers.

An Industrial visit in the Sixth Semester is a mandatory event in the curriculum. Extra Lab and theory sessions are planned and implemented based on student performance during semesters. The institution has a media centre where video sessions on subjects by experts from premier institutes are screened, as per demand from students. Audio visual aids are thoroughly used in theory and tutorial sessions. Students are encouraged to work on community service projects alongside faculty, so as to learn implementation of technical knowledge and to be a veritable ingredient in societal development. Psychological counseling, for stress management, to handle cutthroat competition and boosting of EQ (Emotional Quotient), is a vital ingredient of teaching learning process. Innovative schemes of providing references, texts from Library, and digital library, for online references, cater in plenty, to academic requirements.