What is ICT ?

ICT (Information & Communication Technology) is a multidisciplinary branch combining **Computer Science, Electronics, Communication, and IT**. It focuses on **software development, embedded systems, networking, AI, IoT, Data Science, Cloud, VLSI, and Cybersecurity**

- Why ICT after 10th or $12^{th}$

ICT has a **very wide scope –** students can enter fields like **AI/ML, Data Science, IoT, Cloud Computing, Robotics, Cyber Security, VLSI, Software & Web Development, Mobile App Development, Embedded Systems, Networking** etc.

The syllabus is **practical and future-oriented** (projects every semester, internships, industry tie-ups, expert talks) which prepares students for both **jobs and higher education**

Students also get chances in **research, innovation, hackathons, IPRs, and international exposure**

- Diploma and degree

  Diploma (after 10th) :

  - Diploma is **3 years**, mainly focusing on **fundamentals of electronics, programming, hardware, networking, and software basics**.
  - After diploma, students can take **direct admission into Degree (B.Tech ICT) in 2nd year** (lateral entry).

- **Degree (B.Tech ICT @ Marwadi University)**
  - **8 semesters (4 years)** with subjects ranging from basics (electronics, programming, mathematics) to advanced (AI/ML, Cloud, IoT, VLSI, Blockchain, Cyber Security, Big Data, etc.)
  - Includes **internships** (6 weeks in 4th & 6th sem, 6 months in 8th sem)
  - Focus on **project-based learning**, research, innovation, and industry tie-ups.
  - Prepares students for **placements, higher education, or startups**.

Department Vision and mission

**Vision:** To build students' capacity through quality education that enables them to address industry and societal problems while becoming contributors.

**Mission (4 key areas):**

- M1: Develop problem-solving abilities through project-based learning
- M2: Provide blended teaching and assessment approaches to enhance learning
- M3: Provide exposure to various domains for students to choose their area of interest
- M4: Maintain continuous industry interaction to prepare industry-ready students

# Program Educational Objectives (PEOs)

Five objectives covering:

- PEO1: Applying engineering principles to solve real-world societal problems
- PEO2: Working on multidisciplinary projects in diverse industrial environments
- PEO3: Exploring recent ICT technological developments
- PEO4: Enhancing knowledge through self-learning, certifications, and higher education
- PEO5: Acting ethically and socially responsible as solution providers and entrepreneurs

# Program Specific Outcomes (PSOs)

Two specific outcomes:

- PSO1: Identifying, analyzing, and solving real-time industry problems in software development, embedded systems, VLSI design, IoT, and communication technologies
- PSO2: Contributing as analyst and developer in cloud computing, DevOps, security, machine learning, artificial intelligence, and big data

- Chandrasinh Parmar sir
  Electronics and Communication
  Contact no : 9824416484

- Arjav Bavarva Sir
  Networking and Cloud
  Contact no : 7016685360

- Sunil Lavadiya
  IOT
  9428228839

- Tapan Nahar
  System and Signals
  9983250843

- Nishith Kotak
  Data Science
  7405468045

- Vijay Dubey
  IOT
  9723265278
- Suhag Baldaniya
  Software Development
  9537330702

- Rakesh Oza
  VLSI
  9978068186

- Chirag Visani
  Software Development

- SharmArzoo Alam
  Software Development
  8866152292

- Vishal Akbari
  Cyber Security
  7698903070

- Mitesh Solanki
  IOT
  9586571164

- Sunera Kargatha

- Harikesh Chauhan
  Software Development
  6390327075

- Dharmendra D Zala
  Cloud and Networking
  9574219380

- Naimish Rathod

Facilities (Labs and components):

# Laboratory Infrastructure

## General Lab Features

- **Well equipped laboratories with 24X7 access**
- **Industry Supported/sponsored Labs**

# Lab Components (Based on Curriculum Subjects)

**Microcontroller and Interfacing l**ab

**VLSI Physical Design** lab

**Software Engineering** lab

**Computer Networks** lab

Data Science Lab

Department archivements :

# Research & Innovation Achievements

- **12 projects selected in NEW GEN IEDC, DST India** with funding of ₹2 lakhs each
- **2 projects selected in SSIP** (Student Startup and Innovation Policy), Marwadi University
- **70+ IPRs (Intellectual Property Rights) registered**

# State Level Achievements

- Various state-level competition participations and recognitions

# Student Ambassador Programs

- ICT students serving as ambassadors in various initiatives

# International Exposure

- **Student internationalization programs**
- International internship opportunities
- Global university partnerships

# Higher Education Placements

- Students successfully advancing to prestigious institutions for higher studies

# Industry Recognition

- Strong placement records across multiple domains

- ICT students are actively taking leadership roles in various clubs and communities
- **Co-curricular and extra-curricular activities on Saturday -** Regular weekend activities organized through clubs

- Copititve programing club
  Unity : Kaushal Parmar
  Git – Github : Abhay Nathwani
  Custoum Header files and libraries in C : Aryan Langhnoja
  Working with CLI Terminal – Kausal Parmar

- Data Science Club
  Chat bot
  Data Visulaization

- Circitology Club
  Drone Making

- Cloud Computing and DevOps Club

  Introduction to EC2 – Prince Kakkad

  Host PHP web site on EC2 – Janvi Egera

  Git-Github – Devarsh Bhatt

  Also Conducting Hackathones By various clubs and Giving title as a price and title of coder of the month like

# Celebrating Cultural Events

## Frolic Event

**Sports activities with faculty-student interaction:**

**Sports Activities:**

- Cricket
- Basketball
- Race
- Tug of War
- Chess
- Carrom
- E-sports Gaming

## Confidence Event

**Cultural Activities:**

- Dance
- Food Competition
- Rangoli Competition
- Debate Competition
- Poetry

## Engineers Day Celebration

**Annual celebration event for engineering students**

B.Tech ICT 2021-25

Darshan Padia – Fintech Global Center – 10 LPA

Dev Mehta – rtCamp -12LPA

Mustafa Bharmal rtCamp – 12LPA

B.Tech ICT 2022-26

1. Rishit Rathod - TSS - 4.2 LPA

2. Abhay Nathwani - Fintech Global - software developer - 10 to 15 LPA

3. Aryan Langhnoja - Ace Data Analytics - software developer - 5.1 to 5.7 LPA

4. Umang Hirani- Ace Data Analytics - software developer - 5.1 to 5.7 LPA

5. Ishika Sheth - Triyanshi - BDE - 3 LPA

6. Krish Mamtora - Roima Intelligence Inc - Technical Intern - 5 to 7LPA

7. Harsh Sanghvi - Websmith solution - AI ML engineer -4 to 7 LPA

8. Tvisha Gami- Websmith Solution - AI ML Engineer with 4 to 7 LPA

9.Vidya Bharti Sinha - Mobiuso- Software Engineer - 4 to 5LPA

10. Jay mangukiya - satva solutions - trainee SD - 3.5 to 6 LPA

11. Aryan mahida - satva solutions - trainee SD - 3.5 to 6 LPA

- Simform Solution - SDE Trainee - 6LPA

12. Dhruvi Patel - Synobiz Systems Pvt Ltd - SAP B1 Technical Consultant - 3.0 to 4.0 LPA

- Injala - .net developer - 4.5 LPA

13. Vatsal Parmar -Synobiz Systems Pvt Ltd - SAP B1 Technical Consultant - 3.0 to 4.0 LPA

Ally soft -3.5 LPA to 4.5 LPA

14. Bhavik Kaladiya - Azilen - Devops - 4 - 5.5 LPA

15. Hit racchadiya - cybercom - SDE - 3.6 LPA

16. Rohan Roy - Improvised - devops - 4LPA

17. Ritesh Sanchala - tech extensor - .net / Angular Developer - 3-5LPA

18. Vivek Chavda - VasyERP - java developer -4.2LPA

19. Nidhi Dattani - AllySoft - Mern Stakc developer - 3.5 to 4.5

20. Jenil Vaghasiya - Ally Soft - Mern Stack developer - 3 LPA

21. Vatsal Parmar - Ally Soft - Mern Stack Developer - 3.5 to 4.5 LPA

22. Prashant Savaliya - Ally Soft - mern stack developer - 4 to 4.5 LPA

23. Vrajkumar Nandwana - Empypreal Infotech Private Limited - AI ML Engineer - 3LPA

24. Neel Raiyani - Empyreal Infotech Pvt Ltd - .node Js developer - 3 LPA

# Student Achievements

### National Level

- **Gaziabad Hackathon Competition** (Sustainability Solutions for Humanity) **-** Oct 2024
- **Skill India Competition 2024** winners:
    - Jatan Sanghvi
    - Hasti Hajipara
    - Dhruvkumar Vyas

# Hackathon – Coding Ninja Hackathon

**Winners:**

- Abhay Nathwani
- Ritesh Sanchela
- Aryan Langhnoja

**Achievement:** Winner at 1st position across India

### Other Achievements

# ICT Students as Ambassadors

**Fenil Vadher** selected as a Google Student Ambassador

**Dhyana Kothari** selected as a Google Student Ambassador

**Ashutosh Kumar** selected as a Student Ambassador of Udemy

**Rudra Miyani** selected as a Student Ambassador of Internshala

# Research Papers

# Patents and Copyrights

- **70+ IPRs (Intellectual Property Rights) registered**
- **Promoting filing of IPRs** in subjects like CPSI, HCD, etc.

# International Internships

- **Malhar Shah - 2024** (specific international program participant mentioned)
- **Dhruvi Kothari -2024**

# Student Exchange Programs

Dhruvi Bhalodiya

Priyanshi Madani

Selected at student Exhange Program at romaina

# Alumni Network

- Alumni involvement in **research and innovation activities**
- Alumni contributing to **student development and mentorship**

# Industry Support

## Industry-Sponsored Infrastructure

- **Industry Supported/sponsored Labs**
- Zuru Tech Sponsored Lab
- Tie-up with e-Infochips

Marwadi University

**Marwadi University**

**Department of Information and Communication Technology**

**B.Tech. Teaching and Examination Scheme Semester I & II (WEF AY 2020-21) Batch 2020-24**

**B. Tech. Year I, Sem I**

| Subject Code | Subject Name | Category | Teaching Scheme (Hours) | | | Credits | Evaluation Scheme | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Theory Marks | | | Tutorial/ Practical Marks | | Total Marks |
| | | | Theory | Tutorial | Practical | | ESE(E) | IA | CSE | Viva (V) | Term Work (TW) | |
| 01MA1101 | Differential and Integral Calculus | BSC | 4 | 2 | 0 | 5 | 50 | 30 | 20 | 25 | 25 | 150 |
| 01EE0104 | Electrical Circuits | ESC | 4 | 0 | 2 | 5 | 50 | 30 | 20 | 25 | 25 | 150 |
| 01EC0101 | Basics of Electronics Engineering | ESC | 3 | 0 | 2 | 4 | 50 | 30 | 20 | 25 | 25 | 150 |
| 01SL0102 / 01SL0103 | Reading & Writing for Technology / Speaking & Presentation Skills | HSMC | 2 | 0 | 0 | 2 | 0 | 30 | 20 | 25 | 25 | 100 |
| 01CT0101 | Introduction to Computer Programming | ESC | 3 | 0 | 2 | 4 | 50 | 30 | 20 | 25 | 25 | 150 |
| 01CT0103 | Foundation skills in sensor interfacing | PROJ | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 25 | 25 | 50 |
| 01CT0104 | ICT Workshop | PROJ | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 25 | 25 | 50 |
| 01PE0101 | Physical Education/Sports/Yoga | MC-NCC | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | **Total** | **30** | **16** | **2** | **12** | **22** | **200** | **150** | **100** | **175** | **175** | **800** |

**B. Tech. Year I, Sem II**

| Subject Code | Subject Name | Category | Teaching Scheme (Hours) | | | Credits | Evaluation Scheme | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Theory Marks | | | Tutorial/ Practical Marks | | Total Marks |
| | | | Theory | Tutorial | Practical | | ESE(E) | IA | CSE | Viva (V) | Term work (TW) | |
| 01MA1151 | Matrix Algebra and Vector Calculus | BSC | 4 | 2 | 0 | 5 | 50 | 30 | 20 | 25 | 25 | 150 |
| 01EC0102 | Digital Electronics | ESC | 3 | 0 | 2 | 4 | 50 | 30 | 20 | 25 | 25 | 150 |
| 01ME0105 | Engineering Drawing and Computer Aided Design | ESC | 2 | 0 | 4 | 4 | 50 | 30 | 20 | 25 | 25 | 150 |
| 01CT0105 | Object Oriented Programming | PCC | 3 | 0 | 2 | 4 | 50 | 30 | 20 | 25 | 25 | 150 |
| 01EN0101 | Basics of Environmental Studies | ESC | 2 | 0 | 0 | 2 | 50 | 30 | 20 | 0 | 0 | 100 |
| 01CT0106 | Introduction to R and R Studio | PCC | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 25 | 25 | 50 |
| 01CR0103 | Value Education | HSMC | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 50 | 50 | 100 |
| | **Total** | **28** | **16** | **2** | **10** | **22** | **250** | **150** | **100** | **175** | **175** | **850** |

Marwadi University

**Marwadi University**

**Department of Information and Communication Technology**

**B.Tech. Teaching and Examination Scheme Semester III & IV (WEF AY 2021-22) Batch 2020-24**

**B. Tech. Year II, Sem III**

| Subject Code | Subject Name | Category | | Teaching Scheme (Hours) | | | Credits | Evaluation Scheme | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Theory Marks | | | Tutorial/ Practical Marks | | Total Marks |
| | | | | Theory | Tutorial | Practical | | ESE(E) | IA | CSE | Viva (V) | Term Work (TW) | |
| 01MA0231 | Discrete Mathematics and Graph Theory | BSC | BS-UC | 4 | 2 | 0 | 5 | 50 | 30 | 20 | 25 | 25 | 150 |
| 01CT0301 | Computer Organisation and Architecture | PCC | PC | 3 | 0 | 2 | 4 | 50 | 30 | 20 | 25 | 25 | 150 |
| 01CT0302 | Signals and Systems | PCC | PC | 3 | 0 | 2 | 4 | 50 | 30 | 20 | 25 | 25 | 150 |
| 01CR0302 | Professional Ethics | HSMC | GN-UC | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 50 | 50 | 100 |
| 01CT0303 | Introduction to Communication Engineering | PCC | PC | 3 | 0 | 2 | 4 | 50 | 30 | 20 | 25 | 25 | 150 |
| 01CT0308 | Data Structure using C++ | PCC | PC | 3 | 0 | 2 | 4 | 50 | 30 | 20 | 25 | 25 | 150 |
| 01CT0309 | Programming with Python | PROJ | EE | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 25 | 25 | 50 |
| | **Total** | **29** | **29** | **17** | **2** | **10** | **23** | **250** | **150** | **100** | **200** | **200** | **900** |

**B. Tech. Year II, Sem IV**

| Subject Code | Subject Name | Category | | Teaching Scheme (Hours) | | | Credits | Evaluation Scheme | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Theory Marks | | | Tutorial/ Practical Marks | | Total Marks |
| | | | | Theory | Tutorial | Practical | | ESE(E) | IA | CSE | Viva (V) | Term work (TW) | |
| 01CT0401 | Probability and Statistics | PCC | IE | 3 | 2 | 0 | 4 | 50 | 30 | 20 | 25 | 25 | 150 |
| 01CT0403 | Microcontroller and Interfacing | PCC | PC | 3 | 0 | 2 | 4 | 50 | 30 | 20 | 25 | 25 | 150 |
| 01CT0404 | Analog and Digital Communication | PCC | PC | 3 | 0 | 2 | 4 | 50 | 30 | 20 | 25 | 25 | 150 |
| 01CT0407 | Database Management System | PCC | PC | 3 | 0 | 2 | 4 | 50 | 30 | 20 | 25 | 25 | 150 |
| 01CT0408 | Internet and Web Technology | PCC | PC | 3 | 0 | 2 | 4 | 50 | 30 | 20 | 25 | 25 | 150 |
| 01CT0409 | Operating System | PCC | PC | 3 | 0 | 2 | 4 | 50 | 30 | 20 | 25 | 25 | 150 |
| | **Total** | **30** | **30** | **18** | **2** | **10** | **24** | **300** | **180** | **120** | **150** | **150** | **900** |

Marwadi University

**Marwadi University**

**Department of Information and Communication Technology**

**B.Tech. Teaching and Examination Scheme Semester V & VI (WEF AY 2022-23) Batch 2020-24**

**B. Tech. Year III, Sem V**

| Subject Code | Subject Name | Category | Teaching Scheme (Hours) | | | Credits | Evaluation Scheme | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Theory Marks | | | Tutorial/ Practical Marks | | Total Marks |
| | | | Theory | Tutorial | Practical | | ESE(E) | IA | CSE | Viva (V) | Term Work (TW) | |
| 01CT0503 | Computer Networks | PCC | 3 | 0 | 2 | 4 | 50 | 30 | 20 | 25 | 25 | 150 |
| 01CT0512 | Design and Analysis of Algorithm | PCC | 3 | 0 | 2 | 4 | 50 | 30 | 20 | 25 | 25 | 150 |
| 01CT0513 | Digital Signal and Image Processing | PCC | 3 | 0 | 2 | 4 | 50 | 30 | 20 | 25 | 25 | 150 |
| 01CT0521 | Creativity, Problem Solving and Innovation | PROJ | 0 | 0 | 2 | 1 | 0 | 30 | 0 | 20 | 0 | 50 |
| 01GS0501 | Cognitive Aptitude -1 | HSMC-NCC | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 01CT05XX | Department Elective - 1 | PEC | 4 | 0 | 2 | 5 | 50 | 30 | 20 | 25 | 25 | 150 |
| 01CT05XX | Department Elective - 2 | PEC | 4 | 0 | 2 | 5 | 50 | 30 | 20 | 25 | 25 | 150 |
| | **Total** | **31** | **19** | **0** | **12** | **23** | **250** | **180** | **100** | **145** | **125** | **800** |

**Department Electives 1, 2**

1) 01CT0507 - Advanced Microprocessor
2) 01CT0508 - Optical Communication
3) 01CT1509 - Linux Administration
4) 01CT1510 - Applied Linear algebra
5) 01CT0518 - .Net Technologies
6) 01CT0514 - VLSI Design
7) 01CT0516 - Engineering Electrodynamics
8) 01CT0515 - Information and Web Security
9) 01CT0519 - Machine Learning
10) 01CT0517 - Cross Platform Mobile Application Development

**B. Tech. Year III, Sem VI**

| Subject Code | Subject Name | Category | Teaching Scheme (Hours) | | | Credits | Evaluation Scheme | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Theory Marks | | | Tutorial/ Practical Marks | | Total Marks |
| | | | Theory | Tutorial | Practical | | ESE(E) | IA | CSE | Viva (V) | Term work (TW) | |
| 01CT0614 | Optimization Techniques | PCC | 3 | 0 | 0 | 3 | 50 | 30 | 20 | 0 | 0 | 100 |
| 01CT0615 | Software Engineering | PCC | 3 | 0 | 0 | 3 | 50 | 30 | 20 | 0 | 0 | 100 |
| 01CT0616 | Artificial intelligence | PCC | 3 | 0 | 2 | 4 | 50 | 30 | 20 | 25 | 25 | 150 |
| 01CT0617 | Human Centered Design | PROJ | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 50 | 50 | 100 |
| 01CR0601 | Business Benchmark | HSMC | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 50 | 50 | 100 |
| 01GS0601 | Cognitive Aptitude -2 | HSMC | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 01CT06XX | Department Elective - 3 | PEC | 4 | 0 | 2 | 5 | 50 | 30 | 20 | 25 | 25 | 150 |
| 01CT06XX | Department Elective - 4 | PEC | 4 | 0 | 2 | 5 | 50 | 30 | 20 | 25 | 25 | 150 |
| | **Total** | **28** | **20** | **0** | **8** | **22** | **250** | **150** | **100** | **175** | **175** | **850** |

**Department Elective – 3, 4**

1) 01CT0618 - Sensors and IoT
2) 01CT0605 - RF and Microwave Communication
3) 01CT0611 - Cloud Computing
4) 01CT0621 - Computer Vision
5) 01CT0623 - Advanced Java
6) 01CT0625 - Advanced Web Technologies
7) 01CT0619 - Digital Design using Verilog
8) 01CT0610 - Satellite Communication
9) 01CT0627 - Cyber Security
10) 01CT0622 - Big Data Analytics
11) 01CT0624 - Theory of Computation
12) 01CT0626 - Game Programming and VR

| Marwadi University<br>Marwadi Chandarana Group | Marwadi University<br>Department of Information and Communication Technology<br>B.Tech. Teaching and Examination Scheme Semester VII & VIII (WEF AY 2023-24) Batch 2020-24 |
|---|---|

**B. Tech. Year IV, Sem VII**

| Subject Code | Subject Name | Category | | | Teaching Scheme (Hours) | | | Credits | Evaluation Scheme | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Theory Marks | | | Tutorial/ Practical Marks | | Total Marks |
| | | AICTE | CBCS | Skill | Theory | Tutorial | Practical | | ESE(E) | IA | CSE | Viva (V) | Term Work (TW) | |
| 01CT0715 | Capstone Project | PROJ-ICT | EE | Skill | 0 | 0 | 6 | 3 | 0 | 0 | 0 | 50 | 50 | 100 |
| 01CT1702 | Information Theory and Coding | PCC - ICT | PC | | 3 | 2 | 0 | 5 | 50 | 30 | 20 | 25 | 25 | 150 |
| 01CT0716 | Mobile and Pervasive computing | PCC - ICT | PC | | 4 | 0 | 2 | 5 | 50 | 30 | 20 | 25 | 25 | 150 |
| 01CT0704 | Management Information System | HSMC | GN-UC | | 3 | 0 | 0 | 3 | 50 | 30 | 20 | 0 | 0 | 100 |
| 01CT07XX | Department Elective – 5 | PEC - ICT | PEC | Skill | 3 | 0 | 2 | 4 | 50 | 30 | 20 | 25 | 25 | 150 |
| 01CT07XX | Department Elective – 6 | PEC - ICT | PEC | Skill | 3 | 0 | 2 | 4 | 50 | 30 | 20 | 25 | 25 | 150 |
| | **Total** | **30** | | | **16** | **2** | **12** | **24** | **250** | **150** | **100** | **150** | **150** | **800** |

**Department Elective - 5,6**

1) 01CT0717 - VLSI Physical Design
2) 01CT0719 - Adhoc Wireless Networks
3) 01CT0720 - Cloud Developing
4) 01CT0722 - Deep Learning
5) 01CT0724 - Compiler Design
6) 01CT0718 - FPGA Based System Design
7) 01CT0726 - Software Defined Networks
8) 01CT0721 - Blockchain
9) 01CT0723 - Information Retrieval and Natural Language Processing
10) 01CT0725 - Advanced Database

**B. Tech. Year IV, Sem VIII**

| Subject Code | Subject Name | | | | Teaching Scheme (Hours) | | | Credits | Evaluation Scheme | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Theory Marks | | | Tutorial/ Practical Marks | | Total Marks |
| | | AICTE | CBCS | Skill | Theory | Tutorial | Practical | | ESE(E) | IA | CSE | Viva (V) | Term work (TW) | |
| 01CT1801 | Project | PROJ-ICT | EE | Skill | 0 | 0 | 26 | 13 | 0 | 0 | 0 | 100 | 100 | 200 |
| 01CT08XX | Department Elective – 7 | PEC - ICT | PEC | Skill | 3 | 0 | 0 | 3 | 50 | 30 | 20 | 25 | 25 | 150 |
| 01CT08XX | Department Elective – 8 | PEC - ICT | PEC | Skill | 3 | 0 | 0 | 3 | 50 | 30 | 20 | 25 | 25 | 150 |
| | **Total** | **32** | | | **6** | **0** | **26** | **19** | **100** | **60** | **40** | **150** | **150** | **500** |

**Department Elective - 7,8 (MOOC)**

1) 01CT0818 - Analog Circuit Design
2) 01CT0814 - Spread spectrum communications
3) 01CT0828 - Cloud Architecture
4) 01CT0816 - Advance Machine Learning
5) 01CT0821 - Object Oriented Analysis and Design
6) 01CT0819- RTOS
7) 01CT0820 - Introduction to 5G
8) 01CT0811 - Introduction to DevOps Tools
9) 01CT0817 - Advance Data Analytics
10) 01CT0822 - Soft Computing
11) 01CT0823- Cloud Technical Essentials
12) 01CT0824 - Security Essentials
13) 01CT0825 - Machine Learning Essentials
14) 01CT0826 - Human Computer Interaction
15) 01CT0827 - Software Testing