EXCEL ENGINEERING COLLEGE

(Autonomous)

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Accredited by NBA (AERO, CSE, ECE & MECH), NAAC with "A+" and Recognized by UGC (2f &12B)
KOMARAPALAYAM - 637303

Department of Electronics and Communication Engineering
Academic Year 2022-23

Criteria II-Teaching Learning and Evaluation	
2.3	Teaching Learning Process
2.3.2	Teachers use ICT enabled tools including online resource

INDEX

S.NO	Description
1	ICT Enabled Classrooms

FACULTY MEMBERS USING ICT FOR EFFECTIVE TEACHING WITH LMS AND E-LEARNING RESOURCES

S.NO	No. of. Teachers on Roll	No. of Teachers using ICT (LMS & E-Resource)	ICT Tools and Resources available	No. of ICT enabled classrooms	No. of Smart classrooms	E- Resources and Techniques used
1	27	27	LCD Projector, Presentation and NPTEL	02	02	YouTube, Google SMART classrooms, Kandhswamy Hall, NPTEL Courses

27/12/23

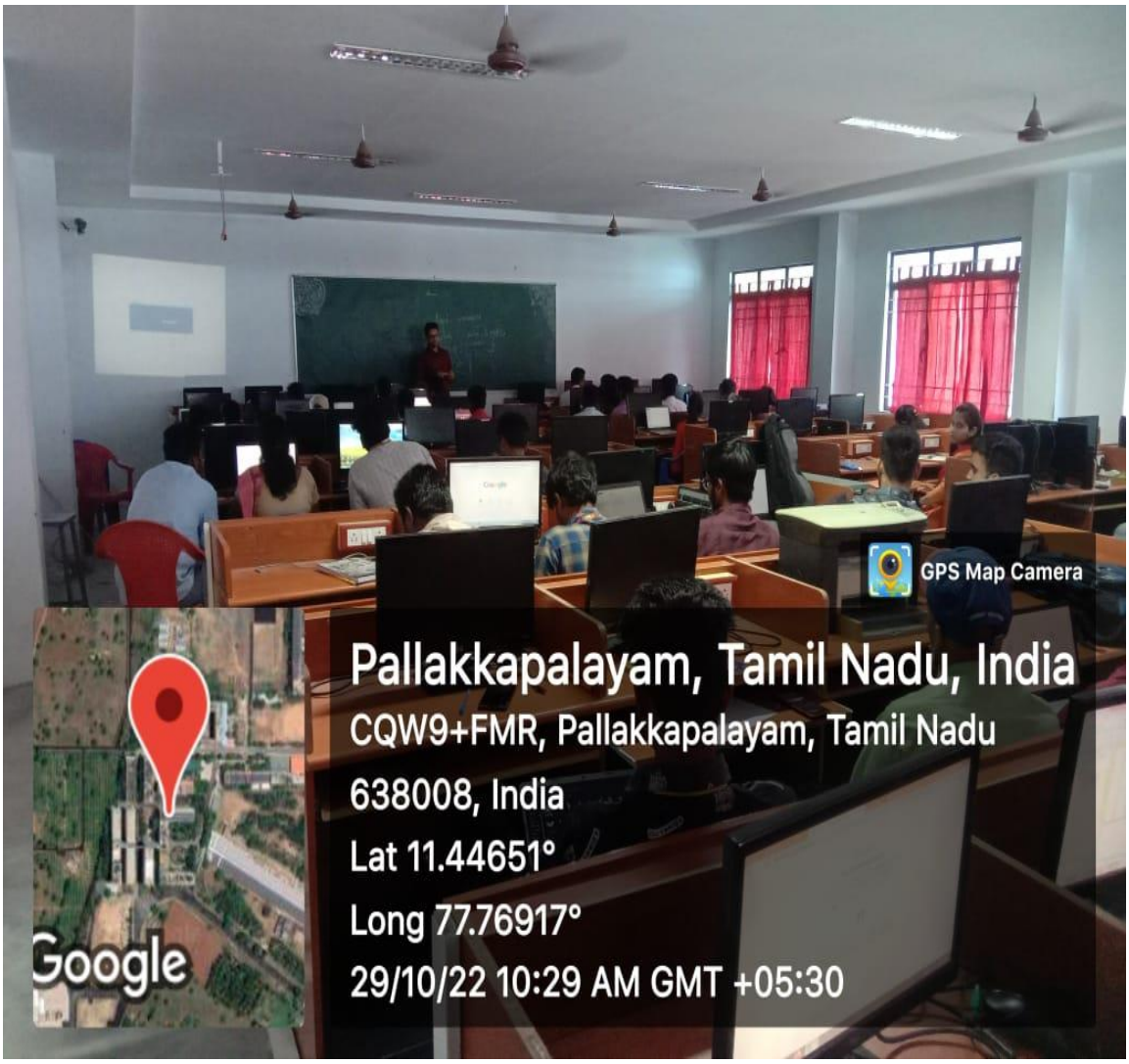
EXCEL ENGINEERING COLLEGE

ACADEMIC YEAR 2022-23
LIST OF FACULTIES MEMBERS USING ICT FOR TEACHING

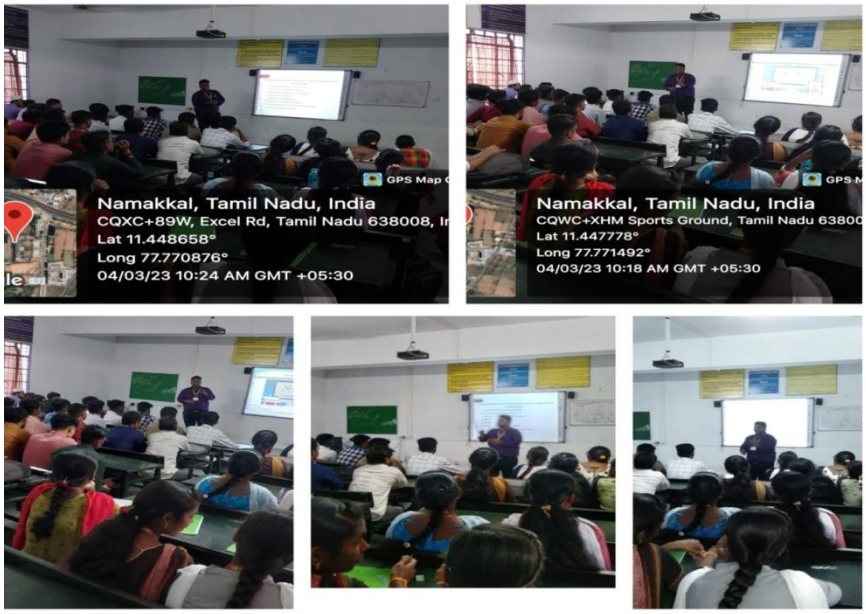
S.No	Name of the faculty	Name of the subject	Topics	ICT Tools used
1	Dr. S. ANBUKARUPPUSAMY	Electronic Devices	Introduction on Semiconductors	NPTEL Lecture videos
2	Dr. C. KARTHIKEYINI	Electronic Devices	Tunnel Diode	NPTEL Lecture videos
3	Dr. K. TAMILARASI	Principles of Discrete time signals	Decimation in time algorithm	YouTube video presentation
4	Dr. G. JAGAJOTHI	Satellite Communication	Transponder characteristics	Power point presentation
5	Dr. S. JAYAPOORANI	Wireless Network	Vehicular Ad Hoc networks	Power point presentation
6	Dr.A.VASANTHARAJ	Medical Electronics	cardiac pacemaker	YouTube videos
7	Ms. R.PUSHPAVATHI	Linear Integrated Circuits	op amp applications	NPTEL Lecture videos
8	Mr.N.SAKTHIVEL	Embedded System Technologies	embedded system design process	NPTEL Lecture videos
9	Mr.N.RAJAGOPALAKRISHNAN	Basics of Electrical and Electronics Engineering	Boolean Algebra and logic gates	YouTube video presentation
10	Ms.A.ANITHA RANI	Transmission Lines and Antennas	Basic Fundamentals of Antenna	YouTube video presentation
11	Ms.K.KODEESWARI	Basics of Electrical Engineering	DC Generator	NPTEL Lecture videos
12	Ms.S.THEIVANAYAKI	Microprocessor and Microcontrollers	8086 microprocessor architecture	YouTube video presentation
13	Mr.S.SATHEESHKUMAR	Wireless and Mobile Communication	Mobile Radio Propagation	NPTEL Lecture videos
14	Mr. M. RAMESH	Wireless Networks	4G Networks	YouTube video presentation
15	Mr.V.ARUN ANTONY	Computer Architecture	Hardware Multithreading	NPTEL Lecture videos
16	Mr.P.LOGANATHAN	Principles of Discrete time signals	IIR filter using windowing method	NPTEL Lecture videos
17	Mrs. P.Narmatha	Transmission Lines and Antennas	Yagi uda antenna	NPTEL Lecture videos
18	Mrs. V.M.Jeevitha	Control System	Open loop and closed loop control system	NPTEL Lecture

				videos
19	Mrs. S. Priya	Communication Theory	Super Heterodyne Recievers	NPTEL Lecture videos
20	Mrs.M.Reshma Das	Digital Image Processing	Segmentation of RGB images	NPTEL Lecture videos
21	Ms.E.Shalini	Embedded System Technologies	ARM Processor	NPTEL Lecture videos
22	Mr.M.Jeeva	Real Time Operating System	RTOS	NPTEL Lecture videos
23	Mr.A.Mohamed yaseen	Robotics and Automation	Industrial vs. software automation	NPTEL Lecture videos
24	Mr.R.Kandasamy	Artificial Intelligence with IoT	Smart Meters	Power point presentation
25	Mrs.R.Ramya	ARM Based Embedded System	Instruction Set And Assembly Language	Power point presentation
26	Mr.K.Kamalraj	Internet of Things	Zigbee Protocol	YouTube videos
27	Ms.S.Vinodhini	Advanced Microcontroller Architecture and Organization	Parallel Processing	NPTEL Lecture videos

1. Smart Class Room usage Geo tag photos

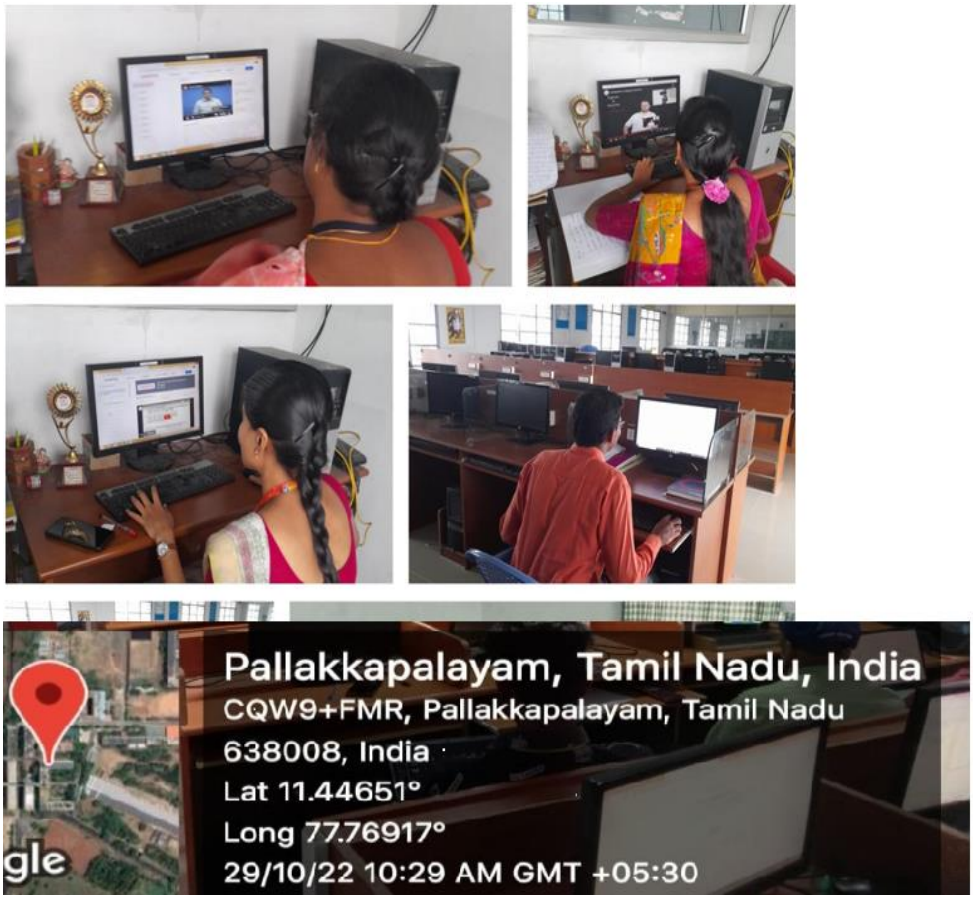


Mr. Sakthivel presenting Microprocessor 8086 Architecture for II Year ECE



Mr.Loganathan presenting IC Fabrication process to III Year ECE

2. ICT Tools used by Faculty Members of ECE



3. Feedback Form

Department of Electronics and Communication Engineering

Excel Engineering College (AUTONOMOUS)

Subject Wise Feedback Report

Under Graduate | BE-ECE | 2022-23 | Electronics and CommunicationEngineering | SEM-5 | A

S.No.	Section	20EC501	20EC502	20EC503	20EC504	20EC505	20PE009	20PE021	20AIO03	20EC504-LAB	20EC503-LAB
1	A	4.3	-	5.0	4.9	5.0	-	5.0	4.8	5.0	4.8
2	A	4.9	-	1.1	2.3	3.5	4.0	-	-	2.7	3.6
3	A	4.5	4.6	4.3	4.5	4.5	4.5	-	4.1	4.2	4.1
4	A	2.7	-	4.5	3.5	2.5	4.5	-	-	3.4	3.4
5	A	2.9	-	3.4	2.7	3.6	3.3	-	-	2.8	3.1
6	A	4.5	-	4.5	4.4	4.5	4.0	-	-	4.5	4.4
7	A	2.4	-	1.9	2.3	2.5	3.1	-	2.4	2.2	2.3
8	A	2.8	-	3.3	3.0	3.5	2.5	-	-	2.9	3.1
9	A	5.0	5.0	5.0	4.8	5.0	4.9	5.0	-	5.0	5.0
10	A	3.5	-	3.7	3.9	3.6	3.9	-	-	3.7	3.6
11	A	3.9	-	-	-	3.5	-	-	-	-	3.6
12	A	3.4	-	3.1	3.2	3.5	3.4	-	-	3.4	3.4
13	A	3.3	3.4	3.4	3.1	2.9	3.0	-	3.0	3.1	3.3
14	A	3.1	3.5	3.3	3.1	3.0	2.9	2.9	-	2.9	3.0
15	A	5.0	4.5	4.9	5.0	5.0	5.0	-	5.0	5.0	5.0
16	A	2.1	-	-	-	2.6	-	3.1	2.5	-	-
17	A	3.9	-	4.1	4.0	4.1	3.0	-	-	4.2	4.0
18	A	4.8	-	4.7	4.9	4.8	4.8	-	-	5.0	5.0
19	A	4.9	-	5.0	5.0	5.0	5.0	-	4.8	4.5	4.7
20	A	3.7	-	4.3	3.8	3.0	2.7	-	-	3.9	2.1
21	A	2.8	2.9	3.0	3.7	2.9	2.0	-	2.6	2.4	3.0
22	A	4.3	4.0	4.0	4.0	4.3	4.6	-	4.1	4.0	4.0

23	**A**	**3.0**	**-**	**-**	**-**	**-**	**-**	**5.0**	**-**	**1.5**	**-**
24	**A**	**5.0**	**-**	**5.0**	**5.0**	**5.0**	**4.7**	**-**	**-**	**4.5**	**5.0**
25	**A**	**4.9**	**-**	**5.0**	**4.0**	**4.8**	**-**	**5.0**	**4.0**	**4.0**	**4.2**
26	**A**	**3.3**	**-**	**-**	**-**	**2.8**	**-**	**-**	**-**	**-**	**3.4**
27	**A**	**-**	**2.5**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
28	A	-	3.5	-	-	3.9	3.8	3.3	-	-	3.8
29	A	-	-	2.5	-	3.0	2.9	-	-	-	3.5
30	A	-	-	4.0	-	3.1	3.6	-	-	-	3.4
31	A	-	-	-	-	3.5	-	-	-	3.5	-
32	A	-	-	-	-	5.0	-	-	-	-	-
33	A	-	-	-	-	5.0	-	-	-	-	-
34	A	-	-	-	-	3.5	-	-	-	-	-
35	A	-	-	-	-	3.5	-	-	-	-	3.8
Total		98.9	33.9	93.0	85.1	125.9	86.1	29.3	37.3	88.3	105.6
Average		3.8	3.8	3.9	3.9	3.8	3.7	4.2	3.7	3.7	3.8
Percentage		76.0%	76.0%	78.0%	78.0%	76.0%	74.0%	84.0%	74.0%	74.0%	76.0%
SIGNATURE											

VLSI DESIGN-20EC501, TRANSMISSION LINES AND ANTENNAS-20EC502, ANALOG AND DIGITAL COMMUNICATION-20EC503,
COMMUNICATION NETWORKS-20EC504, VLSI DESIGN LABORATORY-20EC505, MACHINE LEARNING FUNDAMENTALS-20PE009,ASIC DESIGN-20PE021, FOUNDATIONS OF ARTIFICIAL INTELLIGENCE-20AIO03, COMMUNICATION NETWORKS-20EC504-LAB,
ANALOG AND DIGITAL COMMUNICATION-20EC503-LAB

Staff name	**Subject (Section)**
Arun Antony V	20EC501(A)
Narmatha P	20EC502(A)
M RAMESH MANI	20PE009(A)
Theivanayaki S	20PE021(A)
Eben Exceline C	20AIO03(A)
Rajagopala Krishnan N	20EC504(A)
kodeeswari K	20EC503(A)
SATHEESHKUMAR S	20EC504-LAB(A)
Pushpavathi R	20EC504-LAB(A)

4. Teaching Plan

ANALOG AND DIGITAL COMMUNICATION

Topic	Subject Topics	Planned Date	Date of Completion	Remarks	Attachments
SPREAD SPECTRUM MODULATION	Pseudo noise sequence	24.9.2022	24.9.2022	-	No
	Direct sequence spread spectrum	24.9.2022	24.9.2022	-	No
	coherent binary phase shift keying	24.9.2022	24.9.2022	-	No
	Frequency hop spread spectrum	24.9.2022	24.9.2022	-	No
	Frequency hop spread spectrum-2	24.9.2022	24.9.2022	-	No
	signal space dimensionality	24.9.2022	24.9.2022	-	No
	,signal space dimensionality-2	24.9.2022	24.9.2022	-	No
	processing gain	24.9.2022	24.9.2022	-	No
	Applications	24.9.2022	24.9.2022	-	No
	IAE 3	24.9.2022	24.9.2022	-	No
MULTI-USER RADIO COMMUNICATION	Global System for Mobile Communications	14.09.2022	14.09.2022	-	No
	Code division multiple access	14.09.2022	14.09.2022	-	No
	Cellular Concept	14.09.2022	14.09.2022	-	No
	Frequency Reuse	14.09.2022	14.09.2022	-	No
	Channel Assignment	14.09.2022	14.09.2022	-	No
	Handover Techniques	14.09.2022	14.09.2022	-	No
	Overview of Multiple Access Schemes	14.09.2022	14.09.2022	-	No
	Satellite Communication	14.09.2022	14.09.2022	-	No
	Bluetooth	14.09.2022	14.09.2022	-	No
	IAE 2	-	-	-	No
DIGITAL COMMUNICATION	Amplitude Shift Keying (ASK)	13-09-2022	13-09-2022	-	Yes
	Frequency Shift Keying (FSK)	16-09-2022	16-09-2022	-	Yes
	Phase Shift Keying (PSK)	19-09-2022	19-09-2022	-	Yes
	BPSK	19-09-2022	19-09-2022	-	Yes
	QPSK	20-09-2022	20-09-2022	-	Yes
	Quadrature Amplitude Modulation (QAM)	23-09-2022	23-09-2022	-	Yes
	8 QAM	26-09-2022	26-09-2022	-	Yes
	Bandwidth Efficiency	12-09-	12-09-2022	-	Yes

		2022			
	Comparison of various Digital Communication System	26-09-2022	26-09-2022	-	Yes
	class test	26-09-2022	26-09-2022	-	No
PULSE AND DATA COMMUNICATION	Pulse Communication: Pulse Amplitude Modulation (PAM)	23-08-2022	24-08-2022	-	Yes
	Pulse Time Modulation (PTM)	29-08-2022	29-08-2022	-	Yes
	Pulse code Modulation (PCM)	29-08-2022	29-08-2022	-	Yes
	Comparison of various Pulse Communication System	30-08-2022	30-08-2022	-	Yes
	Data Communication: Standards Organizations for Data Communication	02-09-2022	02-09-2022	-	Yes
	Data Communication Circuits	05-09-2022	05-09-2022	-	Yes
	Data Communication Codes	05-09-2022	05-09-2022	-	Yes
	Data communication Hardware	06-09-2022	06-09-2022	-	Yes
	serial and parallel interfaces.	12-09-2022	12-09-2022	-	Yes
	IAE-1	26-08-2022	26-08-2022	-	No
1. ANALOG COMMUNICATION	Introduction to Communication	01-08-2022	01-08-2022	-	Yes
	Introduction to Communication Systems	01-08-2022	01-08-2022	-	Yes
	Modulation – Types – Need for Modulation	02-08-2022	03-08-2022	-	Yes
	Theory of Amplitude Modulation	08-08-2022	08-08-2022	-	Yes
	Evolution and Description of SSB Techniques	10-08-2022	12-08-2022	-	Yes
	Theory of Frequency and Phase Modulation	16-08-2022	16-08-2022	-	Yes
	Theory of Frequency and Phase Modulation – 2	17-08-2022	22-08-2022	-	Yes
	Theory of Amplitude Modulation-2	08-08-2022	08-08-2022	-	Yes
	Comparison of Analog Communication Systems (AM – FM – PM).	22-08-2022	22-08-2022	-	Yes
	class test	22-08-2022	23-08-2022	-	No