



# VISWAJYOTHI

COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE New Delhi & Affiliated to APJ Abdul Kalam Technological University

Vazhakulam P.O., Muvattupuzha  
Ernakulam Dist., Kerala - 686 670  
Tel: 0485 2262211 / 44  
Email: [vjcet@vjcet.org](mailto:vjcet@vjcet.org)  
[www.vjcet.org](http://www.vjcet.org)



## 1.1 Curricular Planning and Implementation

### 1.1.2. The institution adheres to the academic calendar including for the conduct of CIE

#### Table of Contents

Sl. No.	Contents	Page No.
1	MBA Department academic calendar	<a href="#">2</a>
2	Supporting Documents of conduct of CIE	<a href="#">10</a>
3	Course Outcome Attainment sheet	<a href="#">30</a>
4	Department News Letter	<a href="#">38</a>



# Vistajyothi College of Engineering and Technology, Vazhakulam

## Department of Management Studies

### Academic Calendar 2019 -2020

Date	Events
	<b>Jun-19</b>
1-Jun-19	Regular Class
3-Jun-19	Regular Class
4-Jun-19	Regular Class
5-Jun-19	Ramzan/ World environment Day
6-Jun-19	Department Staff Meeting/ T3 Softskills VIVA
7-Jun-19	Regular Class
8-Jun-19	Regular Class
10-Jun-19	Regular Class
11-Jun-19	KMAT Training
12-Jun-19	KMAT training
13-Jun-19	Examination/KMAT Training / Dept Staff Meeting
14-Jun-19	KMAT Training
15-Jun-19	Regular Class
17-Jun-19	Regular Class
18-Jun-19	Regular Class
19-Jun-19	Regular Class
20-Jun-19	Department Staff Meeting
21-Jun-19	Regular Class
22-Jun-19	Regular Class
24-Jun-19	T3 Internship begins
25-Jun-19	Regular Class
26-Jun-19	Regular Class
27-Jun-19	Department Staff Meeting
28-Jun-19	Regular Class
29-Jun-19	Regular Class
	<b>Jul-19</b>
1-Jul-19	Regular Class
2-Jul-19	Regular Class
3-Jul-19	Regular Class
4-Jul-19	Department Staff Meeting/ Foundation Course
5-Jul-19	Regular Class
6-Jul-19	Regular Class
8-Jul-19	Regular Class
9-Jul-19	Regular Class
10-Jul-19	FDP on Research Methods using SPSS – Dr. Rajesh
11-Jul-19	FDP on Research Methods using SPSS – Dr. Rajesh
12-Jul-19	FDP on Research Methods using SPSS – Dr. Rajesh
13-Jul-19	Regular Class
15-Jul-19	Orientation Programme – Inauguration / Psychometric test Dr. Geo
16-Jul-19	Executive Grooming – Ms. Asha Fenn
17-Jul-19	Knowing me- Adv. Dinesh
18-Jul-19	Training – Pradeep (Aditya Birla Head)FN, My Mind - Fr. Thomas(AN)
19-Jul-19	Effective Communication & public Speaking – Dr. Rony George

20-Jul-19	Earn A Day- Mentors
22-Jul-19	Foundation – POM- Dr. Anu George FN/ Accounting- Dr. Sreenish AN
23-Jul-19	Economics- Dr. Cyriac Joseph FN/ Training Mr. Midhun Jose AN
24-Jul-19	QT- Mr. Sebin Jose FN/ Accounting Dr. Sreenish AN
25-Jul-19	Orphanage Visit – Dr. Anu George
26-Jul-19	Introduction to Computers – Mr. Sivadas FN/ Training Mr. Nelson AN
27-Jul-19	Manager in You-Mr. Joy Manuel
29-Jul-19	Miracle of Team Work – Mr. Joy Manuel
30-Jul-19	Malekurishu Experience – Mr. Joy Manuel
31-Jul-19	
	<b>Aug-19</b>
1-Aug-19	T1 Induction Programme - Mr. Sarath Babu CEO Foodking
2-Aug-19	T 1 Classes commences
3-Aug-19	Regular Class
5-Aug-19	Regular Class
6-Aug-19	Regular Class
7-Aug-19	Department Staff Meeting
8-Aug-19	Regular Class
9-Aug-19	Regular Class
11-Aug-19	Regular Class
12-Aug-19	Bakrid Holiday
13-Aug-19	T4 Classes commence/ Training :Dr. Thomas Varghese
14-Aug-19	Department Staff Meeting/ College Council Election
15-Aug-19	Independence Day
16-Aug-19	T1 regular exam registration ends
18-Aug-19	Regular Class
19-Aug-19	Regular Class
20-Aug-19	Regular Class
21-Aug-19	Department Staff Meeting
22-Aug-19	Regular Class
23-Aug-19	Sree krishna Jayanthi
25-Aug-19	Regular Class
26-Aug-19	Internship Viva - T4
27-Aug-19	Department Staff Meeting
28-Aug-19	Ayyankali jayanthi
29-Aug-19	T4 regular exam registration ends
30-Aug-19	Management Association Inaugural
31-Aug-19	Regular Class
	<b>Sep-19</b>
1-Sep-19	Regular Class
2-Sep-19	First Internal Test T1/ KONFIDENCE T4 Commences
3-Sep-19	First Internal Test T1
4-Sep-19	First Internal Test T1
5-Sep-19	Dept. Staff Meeting/Talk on NGOs :Mr. Ullas P Scaria- Bachpan Bachao Andolan
6-Sep-19	Onam Celebration
8-Sep-19	Regular Class
9-Sep-19	Muharram
10-Sep-19	First Onam
11-Sep-19	Thirunam

12-Sep-19	Third onam
13-Sep-19	Sree narayana Guru Jayanthi
15-Sep-19	Onam Vacation Ends
16-Sep-19	T1/T4 Classes reopen
17-Sep-19	Regular Class
18-Sep-19	First internal test T4
19-Sep-19	Department Staff Meeting/ First internal test T4
20-Sep-19	First internal test T4
22-Sep-19	Regular Class
23-Sep-19	Release of Newsletter-1, Interview and GD Training - T4: Mr. Murali T (TCS) and Ms. Preethi G(EY)
24-Sep-19	Staff Meeting
25-Sep-19	Regular Class
26-Sep-19	Sports Day
27-Sep-19	Sports Day
28-Sep-19	KEY TO CORPORATE
29-Sep-19	Regular Class
30-Sep-19	Subject talk: Mr. Vikas Surendran, Zonal Head, Shriram Digital Business
<b>Oct-19</b>	
1-Oct-19	Regular Class
2-Oct-19	Gandhi jayanthi
3-Oct-19	Department Staff Meeting/Retail Industry famialiarisation - Dr. Biju Vithayathil
4-Oct-19	Regular Class
5-Oct-19	Club Activity - ED Club/Subject talk Mr. Jino P John , Recent Changes in IT and its impact on managerial activity
6-Oct-19	Regular Class
7-Oct-19	Mahanavami
8-Oct-19	Vijayadasami
9-Oct-19	Second Internal test T1
10-Oct-19	Department Staff Meeting/Second Internal test T1
11-Oct-19	Second Internal test T1
12-Oct-19	Placement Process Inauguration
13-Oct-19	Regular Class
14-Oct-19	Subject talk :Dr. Mallika Sankar- Business Analytics
15-Oct-19	Industrial Visit - T1 Synthite
16-Oct-19	Second Internal test T4
17-Oct-19	Second Internal test T4
18-Oct-19	Second Internal test T4/ Tech fest Bodhi
20-Oct-19	Regular Class
21-Oct-19	Regular Class
22-Oct-19	Talk on GST: Dr. K.K John
23-Oct-19	Regular Class
24-Oct-19	Department Staff Meeting
25-Oct-19	T1 Classes ends
26-Oct-19	Curriculum Enrichment Programme/ Study Hols T1
27-Oct-19	Deepavali/ Study Hols T1
28-Oct-19	Publish T1 internals and attendance/ Study Hols T1
29-Oct-19	Study Hols T1
30-Oct-19	Study Hols T1

31-Oct-19	Department Staff Meeting/ Study Hols T1
	<b>Nov-19</b>
1-Nov-19	T1 Univ Regular and supplementary exam
2-Nov-19	Curriculum Enrichment Programme
3-Nov-19	Regular Class
4-Nov-19	Regular Class
5-Nov-19	Regular Class
6-Nov-19	Regular Class
7-Nov-19	Department Staff Meeting/ T4 Class ends
8-Nov-19	Regular Class
10-Nov-19	Regular Class
11-Nov-19	Regular Class
12-Nov-19	Publish T4 internals and attendance
13-Nov-19	Last date to submit T4 internals and attendance
14-Nov-19	T4 Univ Regular and supplementary exam
15-Nov-19	T4 Univ Regular and supplementary exam
17-Nov-19	Regular Class
18-Nov-19	T2 Classes Starts
19-Nov-19	Regular Class
20-Nov-19	Regular Class
21-Nov-19	Dept Stf Mtg/ Outbound Training
22-Nov-19	Outbound Training
23-Nov-19	Outbound Training
24-Nov-19	Regular Class
25-Nov-19	Regular Class
26-Nov-19	T5 Classes Starts/ T5Communication Classes Ms. Preethi George
27-Nov-19	Regular Class
28-Nov-19	Mr. Polachan - Aptitude Training
29-Nov-19	Mr. Polachan - Aptitude Training
30-Nov-19	Talk on Infrastructure and Development:Mr. Anto Eapen
	<b>Dec-19</b>
1-Dec-19	Emmanuel Braggs
2-Dec-19	MBARetreat- Day1
3-Dec-19	Retreat - Day2
4-Dec-19	T2 Regular exam registration ends
5-Dec-19	Department Staff Meeting
6-Dec-19	Mr. Vineeth Vincent (Deputy Manager HDFC Bank Coimbatore) _ Trends In Banking
7-Dec-19	T5 PTA Meeting
8-Dec-19	Regular Class
9-Dec-19	Emmanuel Braggs
10-Dec-19	Emmanuel Braggs
11-Dec-19	Emmanuel Braggs
12-Dec-19	T5 Regular exam registration ends/Department Staff Meeting
13-Dec-19	Hospitality Industry famialiarisation -2 Manager - Crowne Plaza
15-Dec-19	Regular Class
16-Dec-19	First internal test T2
17-Dec-19	First internal test T2
18-Dec-19	First internal test T2
19-Dec-19	Department Staff Meeting

22-Dec-19	
23-Dec-19	
24-Dec-19	
25-Dec-19	Christmas Vacation
26-Dec-19	
27-Dec-19	
29-Dec-19	
30-Dec-19	First internal test T5
31-Dec-19	First internal test T5
	<b>Jan-20</b>
1-Jan-20	First Internal Test T5/Deoartment Staff Meeting
2-Jan-20	Mannam Jayanthi
3-Jan-20	Regular Class
4-Jan-20	Club Activity - Finance
5-Jan-20	Regular Class
6-Jan-20	Regular Class
7-Jan-20	Regular Class
8-Jan-20	Regular Class
9-Jan-20	International conference: Global Scale Recession: Impact on management systems
10-Jan-20	International conference/ Release of Newsletter -2
12-Jan-20	Regular Class
13-Jan-20	Regular Class
14-Jan-20	Regular Class
15-Jan-20	Regular Class
16-Jan-20	Department Staff Meeting
17-Jan-20	Regular Class
19-Jan-20	Regular Class
20-Jan-20	Second Internal test T2
21-Jan-20	Second Internal test T2
22-Jan-20	Second Internal test T2
23-Jan-20	Department Staff Meeting
24-Jan-20	Healthcare Industry Famialiarisation 3 - Rev.Dr. Johnson Vazhapilli CMI, CEO Rajagiri Hospital
25-Jan-20	Club Activity - Marketing
26-Jan-20	Republic Day
27-Jan-20	Regular Class
28-Jan-20	Regular Class
29-Jan-20	Second internal test T5
30-Jan-20	Department Staff Meeting/
31-Jan-20	Second internal test T5/ Arts Fest Drisya
	<b>Feb-20</b>
1-Feb-20	T2 - PTA Meeting
2-Feb-20	Regular Class
3-Feb-20	National Seminar
4-Feb-20	Regular Class
5-Feb-20	Regular Class
6-Feb-20	Department Staff Meeting
7-Feb-20	T2 Classses ends
8-Feb-20	Budget Analysis

9-Feb-20	
10-Feb-20	Publish T2 internals& Attendance
11-Feb-20	Regular Class
12-Feb-20	Last date to submit T2 internals and attendance
13-Feb-20	Department Staff Meeting/ T2 University Regular and Supple Exam
14-Feb-20	T5 Classes Ends
16-Feb-20	Regular Class
17-Feb-20	CEP -2
18-Feb-20	Regular Class
19-Feb-20	Last day to submitT5 Internal Marks
20-Feb-20	Department Staff Meeting
21-Feb-20	MahaShivarathri
23-Feb-20	Regular Class
24-Feb-20	T5 Univ Regularand Supplementary
25-Feb-20	Regular Class
26-Feb-20	Regular Class
27-Feb-20	Department Staff Meeting
28-Feb-20	T3 Classes Commence
	<b>Mar-20</b>
1-Mar-20	Regular Class
2-Mar-20	Regular Class
3-Mar-20	T6 Classes starts
4-Mar-20	Regular Class
5-Mar-20	Department Staff Meeting
6-Mar-20	Regular Class
7-Mar-20	Women Day Celebration-Dr. Leela Manjooran, Milan designs
8-Mar-20	Internationals Womens Day
9-Mar-20	Regular Class

10-Mar-20	Industry Familiarisation programme 4 - Ms. Sushama Sreekandath CEO AVT
11-Mar-20	Regular Class
12-Mar-20	Department Staff Meeting
13-Mar-20	Regular Class
15-Mar-20	Regular Class
16-Mar-20	Regular Class
17-Mar-20	T3 Regular and Supplementary Exam Registration ends
18-Mar-20	Regular Class
19-Mar-20	Department Staff Meeting
20-Mar-20	T6 Regular and Supplementary Exam Registration ends
22-Mar-20	Regular Class
23-Mar-20	Regular Class
24-Mar-20	Regular Class
25-Mar-20	Regular Class
26-Mar-20	Department Staff Meeting/ First internal test T3
27-Mar-20	First internal test T3
29-Mar-20	Regular Class
30-Mar-20	First internal test T3/T6
31-Mar-20	First Internal Test T6
	<b>Apr-20</b>
1-Apr-20	First Internal Test T6
2-Apr-20	Department Staff Meeting
3-Apr-20	Regular Class
4-Apr-20	Club Activity - ED
5-Apr-20	Regular Class
6-Apr-20	Regular Class
7-Apr-20	Regular Class
8-Apr-20	Maundy Thursday
9-Apr-20	Good Friday
12-Apr-20	Regular Class
13-Apr-20	Regular Class
14-Apr-20	Ambedkar Jayanthi
15-Apr-20	Vishu
16-Apr-20	Regular Class
17-Apr-20	College Day
18-Apr-20	Club Activity - Environment
19-Apr-20	Regular Class
20-Apr-20	Regular Class
21-Apr-20	Regular Class
22-Apr-20	Regular Class
23-Apr-20	Department Staff Meeting
24-Apr-20	Regular Class
26-Apr-20	Regular Class
27-Apr-20	Regular Class
28-Apr-20	Second Internal Test T3
29-Apr-20	Second Internal Test T3
30-Apr-20	Second Internal Test T3



	May-20
1-May-20	May Day
2-May-20	Club Activity -Finance
3-May-20	Regular Class
4-May-20	Second Internal Test T6
5-May-20	Second Internal Test T6
6-May-20	Second Internal Test T6
7-May-20	Department Staff Meeting
8-May-20	Regular Class
10-May-20	Regular Class
11-May-20	Regular Class
12-May-20	Regular Class
13-May-20	Regular Class
14-May-20	Department Staff Meeting
15-May-20	T3/T6 Classes Ends
17-May-20	
18-May-20	
19-May-20	
20-May-20	
21-May-20	Publish T3 internals & attendance/Department Staff Meeting
22-May-20	Last Day to submit T3 internals & attendance
24-May-20	
25-May-20	T3 University Regular and Supple Exam
26-May-20	T6 University Regular and Supplementary Exam
27-May-20	
28-May-20	Department Staff Meeting
29-May-20	
31-May-20	

  
PRINCIPAL



Established in 2001  
Managed by Catholic Diocese Kothamangalam



IMPORTANT DATES	
13th January	Commencement of class and registration
20th January	Course selection, registration & mapping begins
25th January	Sports Day - Drona
29th January	Course selection, registration & mapping ends
14th & 15th February	Tech Fest - Bodhi
18th February	Exam Registration & FE Registration Begins, Completion of first assignment
20,22,24 & 25th February	Series Test I
2nd March	Exam Registration & FE Registration ends
9th March	Publish Series Test I marks
20th & 21st March	Arts Fest - Drishya
3-4th & 6-7th April	Series Test II
4th April	B.Tech S7 exam begins
15th April	Publish Series Test II marks & completion of second assignment
21st April	College Day
22nd April	Publish IA marks for UG & PG
23rd April	Last date for internal project evaluation (S8 B.Tech)
24th April	Project evaluation by department committee (PG)
28th April	Class ends
29th April	Commencement of summer course (S1-S4 2015 scheme)
4th May	Start date for forwarding IA marks and attendance to Uty
6th May	Last date for uploading jury/practical marks
8th May	Last date for forwarding IA marks and attendance to Uty.

January										February				March						April						May																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
13	14-17	20	23-24	25	27-28	29	30-31	3-7, 10-13	14-15	17-19	20, 22, 24, 25	26-28	2-7	9	10-13, 16-19	20-21	23-27, 30-31	1-3	4-6-8	11, 15-17	20-21	22	23	24-25	27-28	29	4	6	8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Commencement of class and registration		Regular classes	Course selection registration & mapping begins		Regular class		Regular classes		Sports Day - Drona		Regular classes		Course selection registration & mapping ends		Regular class		Regular classes		Tech Fest - Bodhi		Feb 18th Exam Registration & FE Reg- Begins and completion of first assignment		Regular classes		Series Test - J		Regular classes		March 2nd Exam Registration & FE Reg- ends		Regular class		Publish Series Test-I Marks		Regular class		Regular classes		Arts Fest - Drishya		Regular classes		Regular classes		Series Test II		April 4th B.tech 57 exam begins		April 15th publish Series Test II Marks & April 17th Last date for evaluation of practicles(PG)		April 21st College Day		Regular classes		April 22nd Publish IA marks for UG & PG		Regular classes		Last date for int. project evaluation(SB B.tech)		Regular class		April 24th projectevaluation by department committee (PG)		Regular classes		April 28th class ends		Regular classes		Commencement of summer course(S1-S4 2013 scheme)		Start date for forwarding IA marks and attendance to udy		Last date for uploading jury/practical marks		Last date for forwarding IA marks and attendance to udy																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
1	4	1	4	1	2	1	2	9	2	3	4	3	6	1	8	2	7	3	4	4	2	1	1	2	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

PRINCIPAL

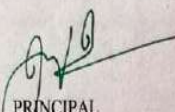


## VISWAJYOTHI COLLEGE OF ENGINEERING AND TECHNOLOGY

### SERIES EXAMINATION II - NOVEMBER 2019

### TIMETABLE FOR SEMESTER V

DATE & DAY	TIME	SUBJECT					
		CE	CSE	EEE	ECE	IT	ME
01/11/2019 FRIDAY	9.30 am - 11.30 am	Design Of Concrete Structures I (CE301)	Theory of Computation (CS 301)	Power Generation, Transmission and Protection (EE301)	Digital Signal Processing (EC301)	Software Architecture & Design Patterns (IT301)	Mechanics of Machinery (ME301)
02/11/2019 SATURDAY	9.30 am - 11.30 am	Geotechnical Engineering II (CE305)	Microprocessors and Microcontrollers (CS305)	Power Electronics (EE305)	Microprocessors & Microcontrollers (EC305)	Microprocessors and Microcontrollers (CS305)	Computer Programming & Numerical Methods (ME305)
	1:45pm - 3:45 pm	Structural Analysis II (CE303)	System Software (CS 303)	Linear Control Systems (EE303)	Applied Electromagnetic Theory (EC303)	Theory of Computation (IT303)	Non-Destructive Testing (ME367)/ Nuclear Engineering (ME371)
04/11/2019 MONDAY	9.30 am - 11.30 am	Geomatics (CE307)	Data communication (CS307)	Signals and Systems (EE307)	Power Electronics & Instrumentation (EC307)	Operating Systems (IT305)	Electrical Drives & Control for Automation (EE311)
	1:45pm - 3:45 pm	Water Resources Engineering (CE309)	Graph theory And Combinatorics (CS309)	Microprocessor and Embedded Systems (EE309)	Principles of Management (HS300)	Computer Networks (IT307)	Principles of Management (HS300)
05/11/2019 TUESDAY	9.30 am - 11.30 am	Advanced Concrete Technology (CE361)/ Geotechnical Investigation (CE363)	Soft computing (CS 361)	New and Renewable Energy Systems (EE367)	Biomedical Engineering (EC365)/ Digital system Design	Computer Graphics & Multimedia (IT367)	Machine Tools and Digital Manufacturing (ME303)

  
PRINCIPAL





**VISWAJYOTHI COLLEGE OF ENGINEERING AND TECHNOLOGY, VAZHAKULAM**  
**SERIES EXAMINATION - NOVEMBER 2019**

**INVIGILATION DUTY LIST**

		SI No	Name	1-Nov-19	2-Nov-19	2-Nov-19	4-Nov-19	4-Nov-19	5-Nov-19
				Friday	Saturday		Monday		Tuesday
				FN 9:30am - 11:30 am	FN 9:30am - 11:30 am	AN 1:45pm - 3:45 pm	FN 9:30am - 11:30 am	AN 1:45pm - 3:45 pm	FN 9:30am - 11:30 am
CIVIL ENGINEERING (CE)	CE	1	Dr. Anoop C K		X		X		
	CE	2	Mrs. Tina Jose				X		X
	CE	3	Mrs. Bijimol Joseph	X			X		
	CE	4	Mrs. Minu C Joy	X			X		
	CE	5	Mrs. Amrutha S			X		X	
	CE	6	Mrs. Devina Vipinan		X			X	
	CE	7	Mr. Appu John				X		X
	CE	8	Mr. Lins Paul Kuriakose		X	X		X	
	CE	9	Mrs. Tintu Shine A L	X	X				X
	CE	10	Mrs. Jerin Jose	X		X	X		
	CE	11	Mrs. Nivya Mary Abraham	X		X			X
	CE	12	Mrs. Anu Paul	X	X			X	
	CE	13	Mr. Daniel A V	X		X			X
	CE	14	Ms. Rose Mary Xavier	X		X			X
	CE	15	Ms. Vineetha Thankachan	X	X			X	
	CE	16	Mr. Vishnu Krishnan	X		X			X
	CE	17	Mrs. Nisa AnnMathew	X		X		X	
	CE	18	Mrs. Ancy Genu George			X		X	X
	CE	19	Ms. Jane Rose Francis	X			X	X	
	CE	20	Ms. Merlin Jose			X	X		X
CS	CS	21	Dr. Anishin Raj M M	X		X			
	CS	22	Mrs. Silpa Joseph		X		X		
	CS	23	Mr. Shibu K R		X			X	
	CS	24	Mrs. Sindhu Jose					X	X
	CS	25	Mrs. Mili Els Jose		X		X		

*Sajan*  
On: Sajan T. John



# VISWAJYOTHI

COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE New Delhi & Affiliated to APJ Abdul Kalam Technological University

Vazhakulam P.O., Muvattupuzha-686 670, Kerala

Tel: 0485 2262211, 2262255, 9496335522

Email: vjcet@vjcet.org, www.vjcet.ac.in

Established in 2001

Managed by Catholic Diocese Kothamangalam



## VISWAJYOTHI COLLEGE OF ENGINEERING AND TECHNOLOGY, VAZHAKULAM

SERIES EXAMINATION - NOVEMBER 2019

### INVIGILATION DUTY LIST

	Sl No	Name	1-Nov-19	2-Nov-19	2-Nov-19	4-Nov-19	4-Nov-19	5-Nov-19
			Friday	Saturday		Monday		Tuesday
			FN 9:30am - 11:30 am	FN 9:30am - 11:30 am	AN 1:45pm - 3:45 pm	FN 9:30am - 11:30 am	AN 1:45pm - 3:45 pm	FN 9:30am - 11:30 am
COMPUTER SCIENCE ENGINEERING (CS)	CS 26	6 Mrs. Mayadevi P A.			X	X		
	CS 27	7 Mr. Basil Baby				X		X
	CS 28	8 Mrs. Ritty Jacob		X			X	
	CS 29	9 Mrs. Neenu Daniel	X	X		X		
	CS 30	10 Mr. Andrews Jose		X		X		X
	31	11 Mrs. Sabitha Raju		X		X		X
	32	12 Mrs. Rini Simon	X		X	X		
	CS 33	13 Mrs. Arsha J K			X	X		X
	CS 34	14 Mrs. Dona Jose	X	X			X	
	CS 35	15 Mr. Joe Mathew Jacob	X			X		X
	36	16 Mrs. Bency Cleetus	X	X			X	
	CS 37	17 Mrs. Remyn Paul			X	X		X
	CS 38	18 Mr. Sivadas T Nair	X	X			X	
	CS 39	19 Mrs. Alphonsa Kuriakose	X		X	X		
	CS 40	20 Mrs. Nimmy George		X			X	X
	EEE 41	1 Dr. Sony Kurian		X			X	X
	EEE 42	2 Mrs. Cini K.			X		X	
	EEE 43	3 Mrs. Seethamma George		X		X		
	44	4 Mr. Aneesh Kurian			X		X	
	EEE 45	5 Mrs. Smitha Jacob				X		X
ELECTRICAL AND ELECTRONICS ENGINEERING (EEE)	EEE 46	6 Mrs. Mereya Baby	X		X		X	
	EEE 47	7 Mr. Dileepkumar P		X		X		X
	EEE 48	8 Mr. Babu T Chacko	X		X		X	
	EEE 49	9 Mr. Sharone Varghese	X	X		X		
	EEE 50	10 Ms. Neena Skaria		X		X		X

*Sajan*  
Dr. Sajan T. John



# VISWAJYOTHI

COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE New Delhi & Affiliated to APJ Abdul Kalam Technological University

Vazhakulam PO., Muvattupuzha-686 670, Kerala  
Tel: 0485 2262211, 2262255, 9496335522  
Email: vjcet@vjcet.org, www.vjcet.ac.in

Established in 2001  
Managed by Catholic Diocese Kothamangalam



## VISWAJYOTHI COLLEGE OF ENGINEERING & TECHNOLOGY VAZHAKULAM

### Series Test I February 2020 Result Analysis

Semester :VI

Batch: A

Faculty Advisor: Martin Jose

2017 Admission

Sl. No	Subject	Faculty	No. of Students appeared	No. of students passed	% of Pass	Percentage of Pass		Percentage of Pass		Percentage of pass		Percentage of Pass	
						Boys	Girls	Boys (Hostel)	Girls (Hostel)	Boys (Day)	Girls (Day)	Boys (O)	Girls (O)
1	Metrology and Instrumentation	Martin Jose	53	53	100	100		100.00		100			
2	Computer Aided Design and Analysis	Vishnu Prasad	55	50	90.91	90.91		85.71		92.68			
3	Advanced Manufacturing Technology	Arun K	53	52	98.11	98.11		100.00		97.56			
4	Dynamics of Machinery	Jerin George	52	44	84.62	84.61		85.71		78.05			
5	Heat & Mass Transfer	Eldhose Kurian	55	47	85.45	85.45		92.86		82.93			
6	Marketing Management	Vishnu Prasad	25	22	88.00	88.00		85.71		90.00			
7	Advanced Metal Joining Technology	Frenosh K Francis	28	25	89.29	89.29		71.43		95.24			

No. of Students passed in all subjects :40

Class Pass Percentage :72.73%

Faculty Advisor: Martin Jose

Signature:

HOD





# VISWAJYOTHI

## COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE New Delhi & Affiliated to APJ Abdul Kalam Technological University

Vazhakulam P.O., Muvattupuzha-686 670, Kerala  
Tel: 0485 2262211, 2262255, 9496335522  
Email: vjcet@vjcet.org, www.vjcet.ac.in

Established in 2001  
Managed by Catholic Diocese Kothamangalam



VISWAJYOTHI COLLEGE OF ENGINEERING AND TECHNOLOGY, VAZHAKULAM													
Department of Mechanical Engineering													
Semester: VI Batch: ME A Tutor: Martin Jose													
SERIES TEST I February 2020													
Roll No	Subject	Metrology and Instrumentation	Computer Aided Design and Analysis	Advanced Manufacturing Technology	Dynamics of Machinery	Heat & Mass Transfer	Advanced Metal Joining Technology	Marketing Management I	TOTAL	% of Mark	Rank	No. of Subjects Failed	Pass / Fail (P / F)
Code		ME312	ME308	ME308	ME304	ME302	ME366	ME368					
Staff In-Charge		Martin Jose	Vishnu Prasad	Arun K	Jerin George	Eldhose Kurian	Fransh K Francis	Vishnu Prasad					
Maximum Mark		50	50	50	50	50	50	50	300				
Name													
1	ABHINAV V.SALIM	34	30	31	19	20		32	166	55.33	43	2	F M DS
2	ABIN ANTONY	37	29	29	21	23		25	164	54.67	44	1	F M DS
3	ABIN JOSEPH	36	26	27	29	30		30	178	59.33	38	0	P M DS
4	AFNAS V A	28	34	43	41	34		35	215	71.67	15	0	P M DS
5	AJMAL ROSHAN P M	34	32	35	25	30		28	184	61.33	34	0	P M DS
6	AKHILESH BALACHANDRAN	33	24	38	37	27	20		179	59.67	36	1	F M DS
7	AKHIL SEBASTIAN	Ab	5	Ab	Ab	2		Ab	7	2.33	55	2	F M DS
8	AKHIL SHJO	29	31	35	27	28		28	178	59.33	38	0	P M DS
9	ALEN BENNY	33	19	35	21	17		32	157	52.33	47	3	F M DS
10	ALEN ULAHANNAN	34	33	39	36	23		36	201	67.00	27	0	P M DS
11	ALEX THOMAS	37	34	37	40	39	30		217	72.33	14	0	P M DS
12	AMAL ANTONY	44	39	40	47	38		47	255	85.00	3	0	P M DS
13	AMAL BABU B	40	33	29	30	27		27	186	62.00	33	0	P M DS
14	AMAL PRATHEESH	49	46	37	45	35		47	259	86.33	2	0	P M DS
15	ANTONY JOHNY	43	38	39	41	41	38		240	80.00	7	0	P M DS
16	ARJUN SURESH	35	41	43	37	43	35		234	78.00	8	0	P M DS
17	ARJUN T P	30	29	35	24	21	24		163	54.33	46	1	F M DS
18	ASHIQ SALU	37	34	35	28	33		29	196	65.33	30	0	P M DS
19	ASWIN T S	43	31	35	20	23	20		172	57.33	41	2	F M DS
20	BASIL C VARGHESE	46	41	35	43	47	36		248	82.67	6	0	P M DS
21	DELJO M BABY	45	42	40	36	29	35		227	75.67	10	0	P M DS
22	DENILSON JAMES	36	42	32	37	35	27		209	69.67	22	0	P M DS
23	EDWIN XAVIER	36	16	27	24	32		17	152	50.67	51	2	F M DS
24	FRANCIS LAL	42	41	32	24	39	33		211	70.33	19	0	P M DS
25	GEORGE ELIAS K	39	37	32	37	33		26	204	68.00	24	0	P M DS
26	GEORGE M SABU	31	33	31	25	35	24		179	59.67	36	0	P M DS
27	GITHIN BIJU	40	39	35	36	29	32		211	70.33	19	0	P M DS
28	GLEN ANTONY K L	41	32	33	40	32	32		210	70.00	21	0	P M DS
29	GOPU K S	32	37	34	23	40		32	198	66.00	28	0	P M DS
30	JAMESKUTTY MICHAEL	40	30	29	32	29		37	197	65.67	29	0	P M DS
31	JAYAKRISHNAN M	39	39	36	36	25	28		203	67.67	25	0	P M DS
32	JEBIN JOHNY	44	42	37	50	43	33		249	83.00	5	0	P M DS
33	JEEVAN THOMAS	45	37	37	35	30	42		226	75.33	12	0	P M DS
34	JERIN ELDOSE	47	44	43	47	42	44		267	89.00	1	0	P M DS
35	JERIN JOSE	35	42	40	38	41	33		229	76.33	9	0	P M DS
36	JOEL GEORGE KALAMPUKATTU	32	37	37	34	39	45		224	74.67	13	0	P M DS
37	JOGI JOSE	41	36	31	34	37	26		205	68.33	23	0	P M DS
38	KURIAN BENNY	28	16	14	Ab	14		14	86	28.67	53	4	F M DS
39	MATHEW NEVIN	39	36	37	42	30		31	215	71.67	15	0	P M DS
40	MELVIN SIBI	27	25	25	26	26	25		154	51.33	49	0	P M DS
41	MELVIN JOE AUGUSTINE	44	47	39	45	38	38		251	83.67	4	0	P M DS
42	NIKHIL DEVASIA	37	34	35	30	36		41	213	71.00	17	0	P M DS
43	NITHYAN SAHAJAN	45	44	40	26	42		30	227	75.67	10	0	P M DS
44	RAHUL S THACHIL	37	37	37	26	34	31		202	67.33	26	0	P M DS
45	SEBASTIAN ANTONY	43	39	36	34	27	34		213	71.00	17	0	P M DS
46	SHIBIN P	44	34	31	26	23		29	187	62.33	31	0	P M DS
47	SHONE NIXON	43	40	23	27	23	31		187	62.33	31	0	P M DS
48	SRAVAN SUNIL C M	Ab	6	Ab	Ab	11		Ab	17	5.67	54	2	F M DS
49	SREERAG SHAJI	30	29	29	20	17	29		154	51.33	49	2	F M DS
50	UMESH GANESAN	28	40	32	23	24		31	178	59.33	38	0	P M DS
51	VIJAY N RAVI	23	30	26	28	29		20	156	52.00	48	1	F M DS
52	VISHNU VINOD	27	36	32	27	33		25	180	60.00	35	0	P M DS
53	ELDHO JOSE	34	31	34	18	27	24		168	56.00	42	1	F M DS
54	JOSHUA ISSAC PAUL	30	33	31	13	21		36	164	54.67	44	2	F M DS
55	ARUN SABU	25	28	33	6	23	22		137	45.67	52	2	F M DS
Average		36.81	33.45	33.91	31.08	29.98	31.11	30.60					
No. of Fail		0	5	1	8	8	3	3					
No. of Absentees		2	0	2	3	0	0	2					
Subject Pass Percentage		100.00	90.91	98.11	84.62	85.45	89.29	88.00					
Minimum Mark		23	5	14	6	2	20	14					
Maximum Mark		49	47	43	50	47	45	47					
No. of All Pass		40											
Percentage of all pass		72.73											

Tutor

Name: Mr. Martin Jose  
Signature:

Dr. Shunmugesh K  
HOD



# VISWAJYOTHI

## COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE New Delhi & Affiliated to APJ Abdul Kalam Technological University

Vazhakulam P.O., Muvattupuzha-686 670, Kerala  
Tel: 0485 2262211, 2262255, 9496335522  
Email: vjcet@vjcet.org, www.vjcet.ac.in

Established in 2001  
Managed by Catholic Diocese Kothamangalam



Name:

Roll no:

Viswajyothi College of Engineering & Technology, Vazhakulam

CE 301 Design of Concrete Structures-I

First Internal Examination - September 2019

Use of IS 456:2000 is Permitted

Class: S5CEB

Max Mark: 60

Date:

Time: 2 hr

### PART A

Course Outcome	Taxonomy	Qt. No	Questions	Marks
CO1	Comprehension	1	Explain balanced, under reinforced and over reinforced sections in the context of Limit state design philosophy.	10 marks
CO1	Comprehension	2	Explain the comparison between Working stress and Limit state method.	5 marks
CO1	Analysis	3	A Rectangular beam is 20cm wide and 30cm deep up to the centre of reinforcement. Find the area of reinforcement required if it has to resist a moment of 25kNm. Use M20 concrete mix and Fe 415 steel	15 marks

### PART B

Course Outcome	Taxonomy	Qt. No	Questions	Marks
CO2	Comprehension	1	List various types of shear reinforcements commonly used. Explain each with neat sketches.	5 marks
CO2	Comprehension	2	Explain about development length of reinforcement bar?	5 marks
CO2	Synthesis	3	A simply supported beam 230mm x 550mm effective depth, is reinforced with 4 bars of 20mm diameter on the tension face. If the beam is subjected to a vertical shear force of 100kN at the critical section, check the adequacy of the section in shear and design the shear reinforcement. Use M25 concrete and Fe 415 grade steel.	20 marks

Ms. Bijimol Joseph  
Course coordinator:

Mr. Daniel A.V.  
Stream Coordinator:

Prof. Shine George, HOD  
Program Coordinator:





Internal Test-I September 2019  
Part A

1.  $\frac{x_u}{d} = \frac{x_{u\max}}{d}$

$$M_{u\lim} = 0.36 f_{ck} \frac{x_{u\max}}{d} \left[ 1 - 0.42 \frac{x_{u\max}}{d} \right] b d^2$$

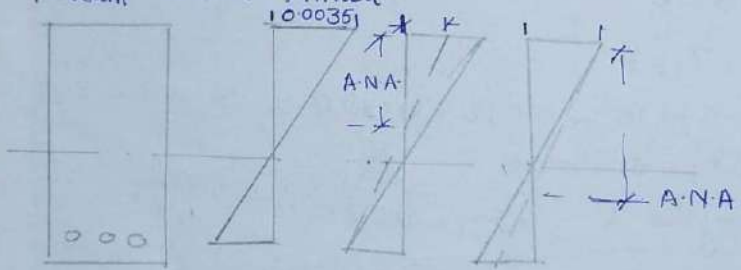
$$M_{u\lim} = 0.87 f_y A_{st} d \left[ 1 - 0.42 \frac{x_{u\max}}{d} \right]$$

Under refd  $\frac{x_u}{d} < \frac{x_{u\max}}{d}$ ,  $p_t < p_{t\lim}$ .

$$M_u = 0.87 f_y A_{st} d \left[ 1 - \frac{A_{st} f_y}{f_{ck} b d} \right]$$

Over-refd  $\frac{x_u}{d} > \frac{x_{u\max}}{d}$

$M_{u\lim}$  concrete formula.



2. Elastic theory

Factor of safety

Loads - No F.O.S.

Exact not know

Thicker, less economical.

deterministic method.

3.  $b = 200 \text{ mm}$

$d = 300 \text{ mm}$

$f_{ck} = 20 \text{ N/mm}^2$ ,  $f_y = 415 \text{ N/mm}^2$

$$\frac{x_u}{d} = \frac{0.87 \times f_y A_{st}}{0.36 \times f_{ck} b d} = \frac{0.87 \times 415 \times x}{0.36 \times 20 \times 200 \times 300}$$

$$M_u = 0.87 f_y A_{st} d \left( 1 - \frac{A_{st} f_y}{b d f_{ck}} \right)$$

$$25 \times 15 \times 10^6 = 0.87 \times 415 \times A_{st\text{req}} \times 300 \left( 1 - \frac{A_{st\text{req}} \times 415}{200 \times 300 \times 20} \right)$$

$= 402$

under refd



### Part B

$$3. \tau_v = \frac{V_u}{bd} = \frac{(100 \times 1.5) \times 1000}{230 \times 550} = 1.19 \text{ N/mm}^2$$

$$\tau_{cmax} = 3.1 \text{ N/mm}^2, \tau_v < \tau_{cmax}$$

$$\frac{100 A_{st}}{bd} = 0.99$$

$$\tau_c = 0.64 \text{ N/mm}^2, \tau_v > \tau_c$$

Shear reft. is necessary

Design shear reft.

check for spacing

$$V_{us} = V_u - \tau_c bd$$

$$= (100 \times 1.5) \times 10^3 - 0.64 \times 230 \times 550 = 150,000 - 80,960 = 69,040$$

10mm  $\phi$  2L, Fe 415 stirrup

$$S_v = \frac{0.87 f_y A_{sv} d}{V_{us}} = \frac{0.87 \times 415 \times (2 \times \frac{\pi}{4} \times 10^2) \times 550}{69040}$$

$$= 451.5 \text{ mm}$$

$$S_v = 451 \text{ mm}$$

$$0.75 x d = 0.75 \times 550 = 412.5 \text{ mm}$$

Least is 300 mm

$$300 \text{ mm}$$

1. Vertical

Bent up bars along with stirrups

Inclined stirrups.

$$2. L_d = \frac{0.87 f_y \phi}{4 \tau_{bd}} \text{ cl. 26.2.1 Pg-42 } < \frac{M_1}{V} + L_0$$

$$\tau = \tau_{bd} \times 2 \pi \times \frac{\phi}{2} \times L_d$$

$$\tau = 0.87 f_y \times \frac{\pi}{4} \times \phi^2$$





# VISWAJYOTHI

COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE New Delhi & Affiliated to APJ Abdul Kalam Technological University

Vazhakulam P.O., Muvattupuzha-686 670, Kerala

Tel: 0485 2262211, 2262255, 9496335522

Email: vjcet@vjcet.org, www.vjcet.ac.in

Established in 2001

Managed by Catholic Diocese Kothamangalam



PAGE

POM

Assignment



~~10/10~~

Submitted by,

Harek Bamey

35 ME-B

34.



Q. What is planning? Explain the nature and importance of planning.

Ans: Planning involves defining the organisation's goals, establishing strategies for achieving these goals and developing plans to integrate and coordinate work activities.

### Nature of Planning.

1. Planning is goal oriented: Every plan must contribute in some positive way towards accomplishment of group objectives.
2. Beginning of the process of management: Planning sets all other functions into actions.
3. Intellectual process: It requires a manager to think before acting. It is about thinking in advance.
4. Continuous process: A manager should watch the progress of his plans, monitor the conditions both within & outside the organisation.
5. Plan must be flexible: Planning should be adaptable to changing environmental conditions.
6. All pervasive function: Planning is important to all managers regardless of their level in the organisation.





# VISWAJYOTHI

COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE New Delhi & Affiliated to APJ Abdul Kalam Technological University

Vazhakulam P.O., Muvattupuzha-686 670, Kerala

Tel: 0485 2262211, 2262255, 9496335522

Email: vjcet@vjcet.org, www.vjcet.ac.in

Established in 2001

Managed by Catholic Diocese Kothamangalam



## VISWAJYOTHI COLLEGE OF ENGINEERING & TECHNOLOGY

VAZHAKULAM, MUVATTUPUZHA - 686 670

TEL- 0485 2262211, 2262255, 2262977



MECHANICAL ENGINEERING LAB

### OBSERVATION RECORD

YEAR 2019

Name ANAND P JOY

Branch SF MECHANICAL

Semester 7<sup>th</sup> Roll No. 17

Reg. No. VJC LME032 of Batch

Certified that this is the Bonafide Record of work done

by Anand. P. Joy

Staff Member-in-charge

Head of the Department

Head of the Department

Internal Examiner

External Examiner

Vazhakulam

Date 20.11.19





# VISWAJYOTHI

COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE New Delhi & Affiliated to APJ Abdul Kalam Technological University

Vazhakulam P.O., Muvattupuzha-686 670, Kerala

Tel: 0485 2262211, 2262255, 9496335522

Email: vjcet@vjcet.org, www.vjcet.ac.in

Established in 2001

Managed by Catholic Diocese Kothamangalam



## INDEX

SL.NO.	DATE	NAME OF EXPERIMENTS	PAGE NO.	REMARKS
1	05.05.19	STUDY OF GYROSCOPE	2	<del>19/8</del> 10
2	05.05.19	EXPERIMENT ON MOTORIZED GYROSCOPE	7	<del>19/8</del> 10
3	19.08.19	VERIFICATION OF DONKERLYS RULE	10	<del>19/8</del> 10
4	30.8.19	CALIBRATION OF PRESSURE GAUGE	13	<del>19/8</del> 10
5	4.10.19	WIND TUNNEL PRESSURE MEASUREMENT AND DETERMINATION OF THE LIFT COEFFICIENT OF AN AIR FOIL	18	<del>19/8</del> 10
6	14.10.19	EXPERIMENT ON WATT GOVERNOR	22	<del>19/8</del> 9
6b	14.10.19	STUDY OF WATT GOVERNOR	25	<del>19/8</del> 9
7	14.10.19	HARTNELL GOVERNOR	28	<del>19/8</del> 9
8	14.10.19	Calibration of thermocouple, RTD, thermistor and Bimetallic strip	30	<del>19/8</del> 9





# VISWAJYOTHI

COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE New Delhi & Affiliated to APJ Abdul Kalam Technological University

Vazhakulam P.O., Muvattupuzha-686 670, Kerala

Tel: 0485 2262211, 2262255, 9496335522

Email: vjcet@vjcet.org, www.vjcet.ac.in

Established in 2001

Managed by Catholic Diocese Kothamangalam



## INDEX

SL.NO.	DATE	NAME OF EXPERIMENTS	PAGE NO.	REMARKS
9.	24.10.19	Determination of heat transfer coefficient of free convection	34	
10	28.10.19	Determination of heat transfer coefficient of solids	44	
11.	28.10.19	Study and performance of air conditioning equipment	44	
12.	11.11.19	Determination of LMTD and efficiency of counter-flow and cross flow heat exchanger	50	
13.	18.11.19	Determination of LMTD and efficiency of parallel flow heat exchangers.	53:	
14	11.11.19	Determination of emissivity of a specimen.	58	
15.	18.11.19.	Study of and performance test of refrigeration	60	



# VISWAJYOTHI

## COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE New Delhi & Affiliated to APJ Abdul Kalam Technological University

Vazhakulam P.O., Muvattupuzha-686 670, Kerala  
Tel: 0485 2262211, 2262255, 9496335522  
Email: vjcet@vjcet.org, www.vjcet.ac.in

Established in 2001  
Managed by Catholic Diocese Kothamangalam



### VISWAJYOTHI COLLEGE OF ENGINEERING & TECHNOLOGY

#### ELECTRONICS AND COMMUNICATION ENGINEERING

#### S7 ECA SEMINAR EVALUATION

Roll No	Name	Relevance (5)	Presentation (15)	Viva(15)	Report (15)	Total (50)
1	AISWARYA M NAIR	3	10	10	10	33
2	AKHIL K UNNIKRISHNAN	2	8	8	15	33
3	AKHIL ROY	5	12	15	15	47
4	ALEENA SANTO	4	13	15	14	46
5	ALEESHA SARA MATHEWS	5	12	12	15	44
6	ALEN A BABY	5	11	12	15	43
7	ANANDHU MURALY	4	11	11	15	41
8	ANANTHAKRISHNAN M S	5	12	14	15	46
9	ANJANA S	3	10	11	15	39
10	ANJU JOLY	3	11	10	10	34
11	ANJU SAJEEV	4	12	11	14	41
12	ANUSREE C S	5	14	14	15	48
13	BASIL MARTIN TOM	4	13	13	15	45
14	BHUVANENDRAN B	3	13	13	15	44
15	BINIL DEV	3	11	10	8	32
16	BINITTA THOMAS	4	13	13	15	45
17	CERIL JOSEPH	4	14	13	15	46
18	CHANDINI BINU	2	14	14	15	45
19	CHITHIRA MAHESH	4	15	14	15	48
20	CHRISTO JOJO	4	13	14	10	41
21	DEVAPRASAD V J	3	8	10	14	35
22	DHANYA JOBY	4	14	13	15	46
23	ELAINE LIZ JOSEPH	4	13	12	14	43
24	FIDHA VASIL	3	13	5	14	35
25	HARSHA JOSE	5	13	13	15	46
26	JEBINS JAICE	4	12	13	10	39
27	JEWEL JIMMY	4	13	15	14	46
28	JOANN P BERNARD	4	15	15	15	49
29	KARTHIKA GOPI	4	13	13	15	45
30	LAKSHMIPRIYA	4	13	14	14	45
31	LEENU S CHENGALATHU	5	14	14	15	48
32	LINER REJI	4	12	13	15	44





# VISWAJYOTHI

COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE New Delhi & Affiliated to APJ Abdul Kalam Technological University

Vazhakulam P.O., Muvattupuzha-686 670, Kerala  
Tel: 0485 2262211, 2262255, 9496335522  
Email: vjcet@vjcet.org, www.vjcet.ac.in

Established in 2001  
Managed by Catholic Diocese Kothamangalam



33	MATHEWS BINOY	3	10	12	10	35
34	MEGHA SUKUMAR	5	15	13	14	47
35	MERIN THOMAS	4	14	13	15	46
36	MERLIN JOHN	3	12	10	15	40
37	MITHUN MURALI KRISHNA	3	12	11	10	36
38	NEETHA VINCENT	3	12	12	15	42
39	NITHIN BOSE THARAKAN	4	11	11	15	41
40	PARVATHI SURESH	4	14	9	14	41
41	PAUL KURIAKOSE	4	12	12	10	38
42	PRISTEEN JOSE	3	8	8	8	27
43	RADHIKA SABU	3	10	11	14	38
44	RAHANA SULTHANA M SIDHIK	3	11	9	14	37
45	RAINA ROY	3	8	7	14	32
46	ROYCE PAUL T	←				
47	RUBLE SARA BABY	4	13	11	10	38
48	SARATHCHANDRAN S	3	12	9	15	39
49	SHEETAL DAVID	4	14	13	10	41
50	SHILPA LALU	4	11	13	14	42
51	SNEHA SUNNY	3	12	11	14	40
52	SRUTHY JAYACHANDRAN	4	15	14	15	48
53	TONY GEORGE	4	12	13	15	44

Staff-in-charge

*Anu. C. Kunjichan*  
*Presthomas*  
*Merlin Thomas*



**Viswajyothi College of Engineering and Technology, Vazhakulam P.O**  
**S7 ECE A (2015-19 BATCH)**  
**PROJECT NAME LIST**

GROUP NO	ROLL NO	NAME	GUIDE	TOPIC
1	6	Arathy B Kurisinkal	Ranjini Surendran	Robotic ARM using Flex Sensor
	36	Sajitha Saju		
2	33	Rhithu Shysu		
	3	Amrutha Mohan		
3	8	Asna Sherin M A	Edgar Ruskin Frank	Data transmission using LI-FI
	20	Jithina Sunny		
	43	Sreelekshmi Raju		
4	21	Krishnakripa K	Lekshmi M S	Solar Refrigerator
	29	Nimi Elizabeth Johnson		
	38	Shruti Mathew		
5	30	Parvathy S	Somy P Mathew	Waste management System
	32	Reshmi Nath		
	25	Lisha Tomy		
6	1	Alisha Mariam Chacko	Anilkumar R	Automatic Notification of Humps on Roads To Aid Drivers
	5	Ann Tesna S Thottupuram		
	40	Sneha Tresa Joyson		
7	4	Ann Maria Cherian	Smitha Cyriac	Design and Implementation of Wireless Security System for Railway Tracks
	24	Arsha Edison		
	17	Jeena Kuriakose		
	15	Feby mathew		
8	34	Rinsila Salim	Anitta Thomas	Raspberry Pi Based Reader for Blind
	15	Riya Baby		
	26	Liya George		
9	31	Reshma Babu	Niji Mathews	Intelligent Bus Monitoring System
	39	Sijina Varghese		
	44	Unnimaya		
10	27	Melbin K Mathai	Femy John	Smart Wheelchair
	38	Melby Seby		
	23	Joshua Shaju		
11	22	Johnny joshy	Anish M Jose	SO-Clean
	37	Shejin Joy		
	14	Emel Johns		
	12	Delwyn Joseph		
12	9	Basil Abraham	Krishnendu K	Intelligent MP & E ROBOT
	16	Govind k Mohan		
13	42	Sreehari S		
	41	Sourav S	Jibby Peter Dcruz	Next Generation Head Wear
14	19	Jipson Simon		
	18	Jeesmon Peter		
	10	Benit Jose	Cuckoo Anitha Joseph	Arduino Based Gestures to Speech Conversion System
15	21	Jobin Sunny		
	13	Diju A Thomas		
	11	Cyril Shabu		



VISWAJYOTHI COLLEGE OF ENGINEERING AND TECHNOLOGY  
ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT  
Main Project Evaluation ~~Review-1~~ (2015-2019 B Batch )

Batch	Roll No.	Name	Guide	Topic	Review 1 (10)	Review 2 (10)	Sessional(20)
1	6	ALIAZ BIJU	Ani Rani Philip	AI Emergency First Respondant Drone	7	9	16
	26	FRANCIS ROHAN JOHN			8	9	17
2	2	ABRAHAM GEORGE M	Merlin Thomas	Telerebotic Humanoid	7	9	16
	19	CINO BABU			6	7	13
	28	JISHNU SURESH			6	7	13
3	3	AGNA ANTONY	Rose Maria Jose	Detection of Retinopathy in Diabetic Patients	8	9	17
	44	THARA THOMAS			8	9	17
	34	MITHA WAIBEN			8	9	17
4	7	ALIN MATHEW	Vinija Kurian	Robotic Arm using BCI	6	9	15
	21	DELLA PAUL			6	9	15
	23	DONA MARIA GEORGE			6	9	15
5	15	ASWATHY RAJU	Priya G L	Smart wheel chair	7	8	15
	31	JUBIL ANN TOM			7	8	15
	38	SANDRAMOL SHAJI			7	8	15
6	27	JEENA MARIYA KURIAKOSE	Sani John	Alzheimers Detection using Image Processing	8	9	17
	8	ALINA NIBU MATHEW			8	9	17
	40	SETHULAKSHMI HARIDAS			8	9	17
7	17	BICHU SAJEEV	Anu C Kunjachan	Image Transmission using LiFi	7	9	16
	14	ARIL GEORGE			7	9	16
	11	AMAL VIJAYAN			7	9	16
8	4	AKHISHMA STEPHEN	Manju Thomas T	Waiter Robot	6	9	15
	9	ALITTA LIYA MANUEL			6	9	15
	13	ANN MARY SEBASTIAN			6	9	15

**VISWAJYOTHI COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT**  
 Main Project Evaluation Review-4 (2015-2019 B Batch)

Batch	Roll No.	Name	Guide	Topic	Review 1 (10)	Review 2 (10)	Sessional(20)
9	5	ALEENA BIJU	Vanitha Rugmoni	Mapped Defence Droid	6	7	13
	16	ATHILA M SHANAVAS			6	7	13
	24	DONIYA MICHAEL			6	7	13
10	18	CATHERINE ANTO	Minu George	Smart Drug Store	6	9	15
	41	SHONIMA T S			6	8	14
	29	JISMY T GEORGE			6	8	14
11	20	DEENA ANNA ALIAS	Rose Mary Kuruvithadam	Animatronic Arm	6	8	14
	22	DEVA MERLIN MATHEW			6	8	14
	36	NEHA ANIL			6	8	14
12	42	SRADHA THOMAS	Mary Nirmala George	Driver fatigue detectionbased on Eye Tracking	6	8	14
	43	TEENA SHAJI			6	8	14
	33	MERIN JOSEPH			6	8	14
13	10	ALWIN REBELLOW	Manu Jose	Spy Surveillance Robot	6	8	14
	37	PRINCE PETER			5	8	13
	39	SARATH S KUMAR			5	8	13
14	25	FRAJO M METHIPPARA	Jibby Peter D'cruz	Autonomous Delivery Drone	7	9	16
	30	JOSE MARTIN SAJI			6	8	14
	32	MATHEW AVARACHAN			7	9	16
	1	ABIL M JOY			6	9	15

**VISWAJYOTHI COLLEGE OF ENGINEERING AND TECHNOLOGY,  
VAZHAKULAM**

**Department of Electronics and Communication Engineering**



**BONAFIDE CERTIFICATE**

This is to certify that the project report entitled **"AI EMERGENCY FIRST RESPONSE DRONE"** is a bonafide record of the work done by **ALIAZ BIJU (Reg. No.VJC15EC008)** and **FRANCIS ROHAN JOHN (Reg. No.VJC15EC045)** in partial fulfillment of the requirements for the award of the **Degree of Bachelor of Technology in Electronics and Communication Engineering** of **APJ Abdul Kalam Technological University, Thiruvananthapuram**.

INTERNAL EXAMINER

EXTERNAL EXAMINER

Mrs. ANU RANI PHILIP  
Project guide  
Assistant Professor  
ECE Dept., VJCET

Mrs. Smitha Cyriac  
HOD  
ECE Dept., VJCET

HEAD, ELECTRONICS & COMM. ENGG. DEPT.  
VISWAJYOTHI COLLEGE OF ENGG. & TECHNOLOGY  
VAZHAKULAM P.O.





GENERATE

Branch	Electronics & Communication	Subject	OPTICAL COMMUNICATION
Semester	VII	Course code	C403
Batch	B	No. of COs	6
No. of students	47	Faculty Name	RANJINI SURENDRAN

CO ATTAINMENT						
	C403.1	C403.2	C403.3	C403.4	C403.5	C403.6
Asst 1	-	3	-	-	-	-
Series 1	3	-	-	-	-	-
Asst 2	-	-	-	-	-	3
Series 2	-	-	3	1	3	-
University	3	3	3	3	3	3

### User Input

Assessment Tool	Asst 1	Series 1	Asst 2	Series 2					University
Date of Assessment	18-09-2019	20-09-2019	30-10-2019	6/11/19					
No. of Questions	1	4	3	4					
Max Marks	10	60	10	60					

Roll No	Name	Asst 1	Series 1	Series 1	Series 1	Series 1	Asst 2	Asst 2	Asst 2	Series 2	Series 2	Series 2	Series 2	University	
		Q1	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q1	Q2	Q3	Q4	Q1	
		C403.2	C403.1	C403.1	C403.1	C403.2	C403.6	C403.6	C403.6	C403.3	C403.3	C403.4	C403.5		
		Knowledge	Application	Application		Comprehension	Knowledge	Knowledge	Knowledge	Knowledge	Comprehension	Comprehension	Application	Comprehension	
		10	15	15		10	20	4	4	2	15	15	15	15	
1	ADARSH TOMY	10.0	9.0	10		10	4	4	2	11	10	6	13	C	
2	ADORN P SEBASTIAN	10.0	8.0	10		9	4	4	2	14	11	6	11	C	
3	ALAN SHAJU	10.0	11.0	15		8	4	4	2	2	9	7	13	C	
4	ALEENA JOSHY	10.0	13.0	7		8	0	4	4	2	14	11	7	11	B
5	AMAL JOSEPH	10.0	14.0	8		7	16	4	4	2	10	6	9	15	B+
6	ANIT E J	10.0	12.0	9		6	6	4	4	2	13	10	12	8	C
7	ANOOP A BABY	7.0	7.0	13		8	4	4	2	12	8	7	7	C	
8	ANU GEORGE	10.0	12.0	12		4	14	4	4	2	13	10	9	13	B
9	ANU MARIA SUNNY	10.0	14.0	13		10	5	4	4	2	11	15	5	15	B+
10	ANU ROY	10.0	12.0	14		10	5	4	4	2	14	15	11	13	B+
11	ARUN R NATH	10.0	13.0	10		2	6	4	4	2	12	9	11	14	B
12	ARYA K S	10.0	13.0	11		3	16	4	4	2	14	10	9	11	B+
13	BASIL THANKACHAN	10.0	11.0	6		7	4	4	2	8	8	4	8	P	
14	BENJAMIN BABY JACOB	10.0	13.0	15		8	14	4	4	2	15	14	14	8	B+
15	BINCY VARKEY	10.0	14.0	9		9	4	4	2	8	7	7	15	C	
16	DANY JOJI	10.0	15.0	10		7	8	4	4	2	14	11	8	9	B
17	DELNA T DAVIS	10.0	13.0	15		10	10	4	4	2	15	14	4	11	B
18	DON THOMAS	10.0	10.0	9			4	4	2	9	6	7	8	F	
19	EBIN ELDHO	10.0	8.0	8		10	16	4	4	2	12	6	8	9	B

Roll No	Name	Asst 1	Series 1	Series 1	Series 1	Series 1	Asst 2	Asst 2	Asst 2	Series 2	Series 2	Series 2	Series 2	University
		Q1	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q1	Q2	Q3	Q4	Q1
		C403.2	C403.1	C403.1	C403.1	C403.2	C403.6	C403.6	C403.6	C403.3	C403.3	C403.4	C403.5	
		Knowledge	Application	Application	Comprehension	Knowledge	Knowledge	Knowledge	Knowledge	Comprehension	Comprehension	Application	Comprehension	
		10	15	15	10	20	4	4	2	15	15	15	15	
20	EIVEND JOSE	10.0	11.0	10	7	13	4	4	2	14	5	4	12	B+
21	GEETHU SONY	10.0	13.0	15	10	12	4	4	2	15	14	14	15	B+
22	GLOYA XAVIER	10.0	12.0	7	10	4	4	4	2	10	8	13	9	B
23	GREESHMA RAJ	10.0	14.0	12	10	4	4	4	2	13	13	14	11	B
24	JEFFIN JOSE	10.0	12.0	15	3		4	4	2	10	9	6	8	C
25	JEPHIN BABY	10.0	15.0	14	10	16	4	4	2	15	15	14	9	A
26	JINCE JOLLY	10.0	10.0	12	1	1	4	4	2	7	10	0	10	F
27	JINU JAIMON	10.0	12.0	10	2		4	4	2	9	8	4	10	P
28	JOMCY JOSE	10.0	15.0	13	10	16	4	4	2	9	11	8	12	B+
29	JOSEPH V APPILLIL	10.0	13.0	13	7		4	4	2	6	2	9	10	F
30	K B SREEHARI	10.0	12.0	8	10		4	4	2	7	3	9	8	C
31	MALAVIKA BAIJU	10.0	15.0	15	10	2	4	4	2	10	14	15	14	B+
32	MANU MATHEW VAL LAVANTHARA	10.0	15.0	14	8	3	4	4	2	12	4	0	11	F
33	MERLIN JOHNSON	10.0	13.0	11	10	16	4	4	2	11	13	11	8	C
34	MINNU C T	10.0	10.0	8	5	7	4	4	2	7	6	10	4	F
35	MOHID ANTONY JIMMY	10.0	8.0	8	6	9	4	4	2	9	10	5	8	C
36	RITZEN RAPHEL	10.0	13.0	5	8	6	4	4	2	14	7	8	3	F
37	ROSHAN ROY	10.0	11.0	8	10	16	4	4	2	11	12	12	8	B+
38	SEYCHELL DAVID	10.0	11.0	8	10	13	4	4	2	10	8	7	8	C
39	SHARON ALICEAD	10.0	10.0	10	7	13	4	4	2	10	13	9	8	C
40	SHARON SABU	10.0	12.0	11	4	8	4	4	2	13	7	6	9	C
41	SONU BABU JOSEPH	10.0	11.0	11	4	3	4	4	2	15	15	11	12	B
42	SREEHARI BAJI	10.0	11.0	12	10	15	4	4	2	10	14	10	11	B
43	TOLEMY AUGUSTIAN	10.0	10.0	14	7	12	4	4	2	3	6	6	12	C
44	VANI VAVACHAN	10.0	13.0	14	9	9	4	4	2	12	11	5	7	C
45	VISHNU M	10.0	13.0	10	6		4	4	2	11	5	6	14	C
46	VISMAYA LIZA PHILIP	10.0	9.0	14		4	4	4	2	10	7	3	10	F
47	AMAL CHANDRAN	10.0	.0	0	0		4	4	2	11	11	9	9	P

*Handwritten signature*



**VISWAJYOTHI COLLEGE OF ENGINEERING AND TECHNOLOGY,  
VAZHAKULAM**

**Department of Electronics & Communication Engineering**

**Course- PO Attainment Calculations**

Semester	VII
Batch	B

Subject	OPTICAL COMMUNICATION
Course code	C403
Faculty Name	RANJINI SURENDRAN

**CO-PO MAPPING MATRIX**

SLNO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C403.1	2	1	3	-	2	3	-	-	1	-	-	1
C403.2	1	2	2	-	1	2	-	-	1	-	-	1
C403.3	3	2	2	-	1	1	-	-	1	-	-	1
C403.4	2	2	2	1	1	-	-	-	1	-	-	1
C403.5	3	3	3	-	2	-	-	-	1	-	-	1
C403.6	2	2	3	-	2	-	-	-	1	-	-	1

**CO-PSO MAPPING MATRIX**

SLNO	PSO1	PSO2	PSO3
C403.1	1	1	1
C403.2	1	1	1
C403.3	1	1	1
C403.4	1	1	1
C403.5	1	1	1
C403.6	1	1	1

**CO ATTAINMENT MATRIX**

Assessment Tools	C403.1	C403.2	C403.3	C403.4	C403.5	C403.6
Asst 1	-	3	-	-	-	-
Series 1	3	-	-	-	-	-
Asst 2	-	-	-	-	-	3
Series 2	-	-	3	1	3	-
University	3	3	3	3	3	3

CO Attainment      3      3      3      2.4      3      3  
CO Attainment Avg      2.9

**COURSE - PO MATRIX**

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C403(Mapped)	2.17	2	2.5	1	1.5	2	-	-	1	-	-	1
C403(Attained)	2.1	1.93	2.43	0.8	1.47	2	-	-	0.97	-	-	0.97
C403(Feedback)	3	3	3	3	3	3	-	-	3	-	-	3

**COURSE - PSO MATRIX**

Course Code	PSO1	PSO2	PSO3
C403(Mapped)	1	1	1
C403(Attained)	0.97	0.97	0.97
C403(Feedback)	3	3	3

Total PO & PSO Assessment using Direct Assessment Tools (considering internal assessment and university exam)





# VISWAJYOTHI COLLEGE OF ENGINEERING AND TECHNOLOGY, VAZHAKULAM


Department of Electronics & Communication


**Total**

Semester	VII
Batch	B

Subject	OPTICAL COMMUNICATION
Course code	C403
Faculty Name	RANJINI SURENDRAN

Roll No	Name	Series 1	Series 2
		60	60
1	ADARSH TOMY	29	40
2	ADORN P SEBASTIAN	27	42
3	ALAN SHAJU	34	31
4	ALEENA JOSH Y	28	43
5	AMAL JOSEPH	45	40
6	ANIT E J	33	43
7	ANOOP A BABY	28	34
8	ANU GEORGE	42	45
9	ANU MARIA SUNNY	42	46
10	ANU ROY	41	53
11	ARUN R NATH	31	46
12	ARYA K S	43	44
13	BASIL THANKACHAN	28	28
14	BENJAMIN BABY JACOB	50	51
15	BINCY VARKEY	32	37
16	DANY JOJI	40	42
17	DELNA T DAVIS	48	44
18	DON THOMAS	19	30
19	EBIN ELDHO	42	35
20	EIVEIN JOSE	41	35
21	GEETHU SONY	50	58
22	GLOYA XAVIER	33	40
23	GREESHMA RAJ	40	51
24	JEFFIN JOSE	30	33
25	JEPHIN BABY	55	53
26	JINCE JOLLY	24	27
27	JINU JAIMON	24	31
28	JOMCY JOSE	54	40
29	JOSEPH V APPILLIL	33	27
30	K B SREEHARI	30	27
31	MALAVIKA BAIJU	42	53

 Brighter Students

 Weaker Students

Roll No	Name	Series 1	Series 2
		60	60
32	MANU MATHEW VALLAVANTHA RA	40	27
33	MERLIN JOHNSON	50	43
34	MINNU C T	30	27
35	MOHID ANTONY JIMMY	31	32
36	RITZEN RAPHEL	32	32
37	ROSHAN ROY	45	43
38	SEYCHELL DAVID	42	33
39	SHARON ALICEA D	40	40
40	SHARON SABU	35	35
41	SONU BABU JOSEPH	29	53
42	SREEHARI BAJI	48	45
43	TOLEMY AUGUSTIAN	43	27
44	VANI VAVACHAN	45	35
45	VISHNU M	29	36
46	VISMAYA LIZA PHILIP	27	30
47	AMAL CHANDRAN	0	40



# VISWAJYOTHI COLLEGE OF ENGINEERING AND TECHNOLOGY, VAZHAKULAM

## Department of Electronics & Communication Details of Assistance Given to Weak Students

Semester	VII	Subject	OPTICAL COMMUNICATION
Batch	B	Course code	C403
		Faculty Name	RANJINI SURENDRAN

Roll No	Name	Mark	Remedial Test Mark	Improvement (Yes/No)	No of Hours taken for remedial	Date (s) taken	Additional measures taken	Remarks/Specify Details
---------	------	------	--------------------	----------------------	--------------------------------	----------------	---------------------------	-------------------------

Assessment Tool: Series 1

1	ADARSH TOMY	29	40	YES	2	12-10-19 & 14-10-19	Previous Year University Questions Solution, Course Handout given	
2	ADORN P SEBASTIAN	27	45	YES	2			
4	ALEENA JOSHY	28	42	YES	2			
7	ANOOP A BABY	28	33	YES	2			
13	BASIL THANKACHAN	28	35	YES	2			
18	DON THOMAS	19	36	YES	2			
26	JINCE JOLLY	24	32	YES	2			
27	JINU JAISON	24	31	YES	2			
41	SONU BABU JOSE	29	40	YES	2			
45	VISHNU M	29	45	YES	2			
46	VISMAYA LIZA P	27	33	YES	2			
47	AMAL CHANDRA	0	Absent					

Assessment Tool: Series 2

13	BASIL THANKACHAN	28	34	Yes	2	14-11-2019 & 15-11-2019	Previous Year University Questions Solution, Course Handout given	
26	JINCE JOLLY	27	30	Yes	2			
29	JOSEPH V APPILLAI	27	32	Yes	2			
30	K B SREEHARI	27	46	Yes	2			
32	MANU MATHEW	27	40	Yes	2			
34	MINNU C T	27	37	Yes	2			
43	TOLEMY AUGUST	27	35	Yes	2			



# **VISWAJYOTHI COLLEGE OF ENGINEERING AND TECHNOLOGY, VAZHAKULAM**

**Department of Electronics & Communication Engineering**

## **Details of Assistance Given to Bright Students**

Semester	VII	Subject	OPTICAL COMMUNICATION
Batch	B	Course code	C403
		Faculty Name	RANJINI SURENDRAN

Roll No	Name	Marks	Measures taken to Encourage bright Students	Specify details	Remarks/Outcome
---------	------	-------	---	-----------------	-----------------

Assessment Tool:		Series 1			
14	BENJAMIN BABY J	50	Tutorial Sessions & NPTEL Video Lectures	1. Tutorial work is done for each module to strengthen the fundamentals of each module. 2. Video Lectures(NPTEL video) handed over to students.	
17	DELNA T DAVIS	48			
21	GEETHU SONY	50			
25	JEPHIN BABY	55			
28	JOMCY JOSE	54			
33	MERLIN JOHNSON	50			
42	SREEHARI BAJI	48			

Assessment Tool:		Series 2			
10	ANU ROY	53	Tutorial Sessions & NPTEL Video Lectures	1. Tutorial work is done for each module to strengthen the fundamentals of each module. 2. Video Lectures(NPTEL video) handed over to students.	
14	BENJAMIN BABY J	51			
21	GEETHU SONY	58			
23	GREESHMA RAJ	51			
25	JEPHIN BABY	53			
31	MALAVIKA BAIJU	53			
41	SONU BABU JOSE	53			

*Ranjini*

# VISWAJYOTHI COLLEGE OF ENGINEERING AND TECHNOLOGY, VAZHAKULAM



## Department of Electronics & Communication Engineering

### CO MARK DISTRIBUTION

	Questions	C403.1	C403.2	C403.3	C403.4	C403.5	C403.6
Asst 1	1	-	10	-	-	-	-
Series 1	4	40	20	-	-	-	-
Asst 2	3	-	-	-	-	-	10
Series 2	4	-	-	30	15	15	-

### TAXONOMY MAPPING

	Questions	Knowledge	Comprehensi	Application	Analysis	Evaluation	Synthesis
Asst 1	1	Q1					
Series 1	4	Q4	Q3	Q1 Q2			
Asst 2	3	Q1 Q2 Q3					
Series 2	4		Q1 Q2 Q4	Q3			

### STUDENT CATEGORIES

	$\geq 80\%$	$\geq 60\%$ and $< 80\%$	$\geq 50\%$ and $< 60\%$	$< 50\%$
Asst 1	46	1	0	0
Series 1	7	16	12	12
Asst 2	47	0	0	0
Series 2	7	20	13	7

*Signature*





## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

### INSTITUTE VISION

**"Moulding Professionals par Excellence with Integrity, Fairness and Human Values".**

### INSTITUTE MISSION

1. We commit to develop the institution as a Center of Excellence of International Standards
2. We guide our students in the attainment of intellectual and professional competence for successfully coping with the rapid advancements in technologies and the ever changing world of business, industry and services
3. We help each and every student in their personal growth into mature and responsible individuals
4. We strive to cultivate a sense of social and civic responsibility in our students, thus empowering them to serve humanity.
5. We promise to ensure a free environment where quest for the truth is encouraged

### DEPARTMENT VISION

**"Moulding Electronics Engineers with Professional Competence and Global Outlook."**

### DEPARTMENT MISSION

- To create a vibrant academic ambience conducive for progressive learning.

- Build up excellent infrastructure and lab facilities to train the students in the current & emerging technology.
- Maintain well qualified faculty who are willing to upgrade their knowledge continuously.
- Groom students towards successful careers by facilitating industry-institute relationships and value addition through regular skill-development programmes.

### PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

Our Graduates shall be

- Suitably employed in allied industries/services with professional competency and knowledge of modern tools.
- Capable of developing economically viable, technically feasible eco friendly electronic systems.
- Capable to pursue higher studies/research in the field of engineering and management

### PROGRAM SPECIFIC OUTCOMES (PSO)

Students will be able to

1. Design and modify embedded system based products which will find applications in the fields of communication and automation.
2. Develop algorithms for real life applications in signal & image processing.
3. Design efficient low power electronic circuits.



## PRINCIPAL'S MESSAGE:

I feel honored and privileged to be part of an educational institution where every stakeholder is a learner. Every day is an opportunity to learn and grow. We look at ourselves as a community of learners, where everyone learns including our teachers and students. I believe that in upholding high standards with an absolute commitment, we strive to understand and to improve the educational process, using team strategies while wholly centering on student achievements. I extend my appreciation to the faculty members who train and equip the students in their field of study thereby making them industry-ready.

**Dr. Josephkunju Paul C.**

## PAPER PUBLICATIONS

- **Ms. Ranjini Surendran, Ms. Rhithu Shysu, Ms. Amrutha Mohan, Ms. Sajitha Saju, Ms. Arathy B Kurisinkal** published a paper "Flex Controlled Robotic Arm" in "Journal of Control System and Control Instrumentation" in Volume 5, Issue 3(2019) on November 6, 2019.
- **Mr. Somy P Mathew** published a paper, "Smart Waste Management System" in International Journal of Trend in Scientific Research and Development, Vol. 3, Issue 3, March- April 2019.
- **Femy John , Joshua Shaju , Melbin K Mathai , Melby Seby** published a paper, "Gesture Controlled Wheelchair" in Journal of Embedded Systems and Processing, Volume 4, Issue 3, November 2019.
- **Sani John, Alina Nibu Mathew, Jeena Mariya Kuriakose, Sethulakshmi Haridas** published a paper "Study on Alzheimer's Disease using Image Processing", in Journal of Embedded Systems and Processing, Volume 4, Issue 3, November 2019.
- **Alin Mathew, Della Paul, Dona Maria George, Vinija Kurian** published a paper "Robotic Arm Using Brain Computer Interface" in Journal of Optical Communication Electronics, Vol 5, Issue 3, November 2019.
- **Smitha Cyriac, Ann Maria Cherian, Arsha Edison, Feby Mathew, Jeena Kuriakose**, published a paper "Wireless Security System For Railway Tracks" in Technology & Future, June 2019.
- **Reshma Babu, Sijina Varghese, Unnimaya, Mrs. Niji Mathews** published a paper "Intelligent Bus Monitoring System", in Technology & Future, June 2019.

## HOD'S MESSAGE

It is the time for consolidation and evaluation of our performance. Let me congratulate the students for their good performance in the last semester university examinations. Placements for the final year students started and I wish all final year students will achieve a good placement at the end of their course. ECE department has organized workshops, seminars and alumni interaction programs in last semester for the professional development of students. Let me express my sincere appreciation for all the good activities organized by ECE department. Now it's a great responsibility on all of us to keep up the higher standards expected from us by way of results & placements. Wishing you all the very best.

**Mrs. Smitha Cyriac**



## FDPS / WORKSHOPS ATTENDED BY FACULTY

- **Ms. Manju Thomas** attended a 1 day Workshop on Switching and Transmission Equipments at BSNL Bhavan, Kochi on 8th July 2019.
- **Cyriac M Odackal, Jibby Peter D'cruz, Anish M Jose, Femy John, Mary Nirmala George** attended 2 day International Seminar on Materials: Engineering for Sustainability organized by Department of Mechanical Engineering in association with Centre for Research & Development Cell at VJCET on 29th and 30th July 2019.
- **Ms. Ranjini Surendran** attended a One day FDP on Automation in the world of AI, ML and Data Science on November 8, 2019 at TCS, Cochin

## CONGRATULATIONS



**Mr. Anilkumar R** joined Ph. D programme at CUSAT in the field of development of Microwave materials.

## ZEALOUS '19

The association of ECE Department, Zealous '19 was inaugurated on 13th November 2019 by Mr. Dominic Mathew, Former DGM, Electrical and Electronics Design, Hindustan Machine Tools Ltd. A Talk on "IoT" also was given.





Ajay Raj memorial ever rolling trophy was awarded to S3 ECA students. Ajay Raj of 2009 batch passed away due to illness in March 2009. His batch mates had instituted this trophy for the best class every academic year.



## WORKSHOPS CONDUCTED

- **One day workshop** on "ROBOTICS" for higher secondary students was conducted on 13/07/2019. One faculty and 19 students from different plus two schools attended the workshop. Workshop on 'Robotics' was handled by Varghese Benny, 2014 -2018 batch student of ECE Department.



- **One day workshop** on "ARDUINO for Absolute Beginners" for plus two students of Technical Higher Secondary School, Muttom was conducted on 3/08/2019. A total of 28 students attended the workshop and were greatly benefited. Workshop was handled by

Rahul Sathyan, Alan Jose, Harisankar S and Anjith P N, students of S5 ECE.



- **Workshop** on "Design and Development" was conducted for S5 ECE students from 1/8/2019 to 3/8/2019 by Mr. Varghese Benny, Rabbitsquare.
- **2 day Workshop** on "PCB Fabrication" for S3 ECE students was conducted by Mr. Varghese Benny, Rabbitsquare on 20th and 21st August 2019.
- **Workshop** on "Embedded Systems and IOT" was conducted for S7 ECE students by Mr. Varghese Benny, Rabbitsquare from 28/8/2019 to 30/8/2019.
- **Workshop** on "Electronic Product Building" was conducted for S5 ECE students on 30th and 31st August 2019 by Mr. Varghese Benny, Rabbitsquare.

## EXPERT TALKS CONDUCTED

- **An expert talk** on "Ethical Hacking "was given by Mr. Varghese Benny, Rabbitsquare for S1 ECE students on 22nd August 2019.
- **Dr. Riboy Cheriyan**, Prof. & HOD, Department of ECE, SAINTGITS College of Engineering, Pathamuttom delivered a technical talk on CPLDs Vs FPGA on September 24th 2019 as a subject enrichment seminar for the subject, Digital System Design.



- **An expert talk** on "Reconfigurable Antenna" was given by Mr. Naveen Jacob PhD scholar and Associate Professor, ECE Dept., VJCET for S5 ECE students on 24th September 2019.

## IETE

**One day workshop** was given for S1 ECE & EEE students by Mr. Krishnendu K, Assistant Professor ECE, VJCET on 28th September 2019.





- A technical talk on "Cloud Computing" was given by Mr. Prince Kurian, Assistant Professor, IT Dept., VJCET on 7th November 2019.



## Quiz & Debate Club

An Intra Departmental Technical Quiz was organized by the Quiz & Debate Club of ECE Dept. on November 13th 2019. Students of S1 ECE, Ajith George Louis, Maria Sabu & Sandra Santy were the Quiz Masters. Winners of the Competition are:

- 1st: Jephin Baby & Alan Shaju, S7 ECE B
- 2nd: Hrishi Venkitesh M & Sebin Jaison, S1 ECA
- 3rd: Roshan Roy & Eivein Jose, S7 ECE B

## STUDENT ACHIEVEMENTS

- Mr. Francis Rohan John(2015-19 batch), Mr. Aliaz Biju(2015-19 batch), Ceril Joseph (S7 ECA), Mr. Nelson Joseph (S5 ECA), Mr. Anand Renjith Kannan (S3ECB) participated in the final round of Dr. Pradeep P. Thevanloor Innovation Awards (PPTIA) 2019, a global event held annually with an aim to recognize innovative ideas and applications to tackle challenges faced by the society. They got an honourable mention for their project, Artificially Intelligent Emergency Response Drone, guided by Ms. Anurani Philip, AP, ECE.



- Mr. Harisankar S, Mr. Anjith PN, Mr. Alan Jose, Mr. Rahul Sathyan of S5 ECE conducted a one day workshop on "Arduino for Absolute Beginners", for plus two students on 3rd August 2019.
- The project, "Stroke Rehab and Exercising Glove" of Mr. Amal Chandran, Mr. Jephin Baby and Mr. Vishnu M of S7 ECE B was selected as the Best Project Idea of ECE Department during the Ideafest conducted by IEDC of VJCET.
- Miss Maria Sabu of S1 ECA got 1st prize for Ozone Day Exhibition conducted by NSS, VJCET
- Miss Maria Sabu of S1 ECA got 1st prize for Essay Writing competition conducted by NSS, VJCET
- Miss Maria Sabu of S1 ECA got 2nd prize for Poster Designing competition conducted by NSS, VJCET
- Pranav Pradeep, Akshay Sankar P, Rohan Bijoy, Basil Benny of S1 EC B participated in Artificial Intelligence and Machine Learning, a workshop conducted by Robosarang in association with Sarang 2019, IIT Madras on 12th and 13rd October 2019.
- Jephin Baby & Alan Shaju of S7 ECE B secured First prize for the Intra Department Technical Quiz organized by the Quiz & Debate Club of ECE Dept
- Hrishi Venkitesh M & Sebin Jaison, S1 EC A secured Second prize for the Intra Department Technical Quiz organized by the Quiz & Debate Club of ECE Dept
- Roshan Roy & Eivein Jose, S7 ECE B secured Third prize for the Intra Department Technical Quiz organized by the Quiz & Debate Club of ECE Dept
- Gathri Suresh of S5 ECE( CCO, TeqnocartInnovations (Opc) Pvt. Ltd.) conducted "IEDC orientation programme" for first years of ECE Branch on 1st August 2019.
- Gathri Suresh of S5 ECE conducted a Workshop on Exploring the Potential of Entrepreneurship and Introduction to TEQNOCART, organized by IEDC, VJCET, on 15th November 2019.

## ACADEMIC EXCELLENCE



Anuja Shaji  
S1 & S2 ECA



Alphy Augustine  
S1 & S2 ECB



**Sneha George**  
S3 & S4 ECA



**Maria Celas Thomas**  
S3 & S4 ECB



**Merin Thomas**  
S5 & S6 ECA



**Anu Maria Sunny**  
S5 & S6 ECB



**Graciela Elizabeth**  
S1 & S2 PG

## RESULT

Semester	Pass Percentage
S8 (2015-19 Batch)	84 %
S6 (2016-20 Batch)	46.53 %
S4 (2017-21 Batch)	62.7 %
S2 (2018-22 Batch)	69.5 %

## PLACEMENTS

SLNo	Name of the Company	Number of Placements (2016-20 Batch)
1	Infosys	4
2	TCS	6
3	Experion	2
4	Sutherland Global Pvt Ltd	10
5	Amazon	3
6	Partian Technologies	10
7	UST	5
8	Quest	3
9	Wipro	1
10	6d Technologies	2
<b>Total offers</b>		<b>46</b>

## MINI PLACEMENT CELL

- Miniplacement cell of ECE department in association with IEDC, VJCET has conducted an Orientation Program for S1 students on 01/08/2019. Mr. Jacs Job Pottas, CEO, Pot Devices and Systems (2012-16 ECE Batch) shared his experience of starting a company.



- A motivational talk was given by Mr. Delwin Joseph, Digitalcore Technologies and Mr. Basil Abraham, VVDN Technologies (2015-19 ECE Batch) for S7 students on 26/8/2019.





- Miniplacement cell of ECE department has conducted an Alumni Interaction Program on 23/11/2019 for S7 ECE students on ' Tips for getting placement in Core Companies ' by Delin Paul Augustine and Renju Kuriakose ( Senior Project Managers, Robert Bosch, Coimbatore) of 2004-08 ECE Batch.



## PLACEMENTS

### EXPERION TECHNOLOGIES



Anu Maria Sunny



Sruthy Jayachandran

### INFOSYS



Megha Sukumar



Anju Sajeev



Jephin Baby



Merin Thomas

### TCS



Benjamin Baby Jacob



Merin Thomas



Chithira Mahesh



Roshan Raju



Ceril Joseph



Bhuvanendran B

**SUTHERLAND GLOBAL PVT LTD**



Vani Vavachan



Sonu Babu Joseph



Sneha Sunny



Sharon Alicea D



Seychell David



Ritzen Raphel



Lakshmi Priya



K B Sreehari



Joann P Bernard



Chandini Binu

**AMAZON**



Paul Kuriakose



Chandini Binu



Anu Roy

**QUEST**



Aleesha Sara Mathews



Tony George



QUEST



Karthika Gopi

WIPRO



Vani Vavachan

PARTION TECHNOLOGY



Manu Mathew



Nithin Bose Tharakan



Rahana Sulthana M Sidhik



Ritzen Raphel



Anandhu Murali



Anu George



Malavika Baiju



Gloya Xavier



Greeshma Raj



Bincy Varkey

UST



Jomcy Jose



K B Sreehari



Sonu Babu Joseph



Vani Vavachan



Geethu Sony

6D TECHNOLOGIES



Geethu Sony



Anusree C S