

## Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 28836

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### Authentication Letter

#### 2.6.2 Attainment of POs and COs are evaluated

The following documents are submitted for authenticating attainment of POs and COs

- CO,PO and PSO Mapping
- Course outcomes for a sample courses
- Sample question paper
- Direct assessment sample
- Indirect assessment sample
- Overall Attainment of PO, PSO

The supporting documents for this metric are made available on HEI website.



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VIDYA ACADEMY OF SCIENCE & TECHNOLOGY

Thalakkottukara. P.O.

Thrissur - 680501



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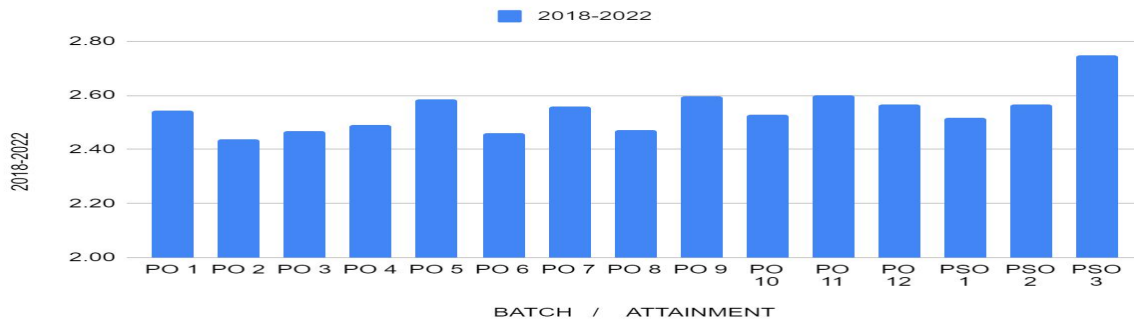
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### 2.6.2 a & b PO and PSO attainment program wise for 2018-2022 & 2019-2023 Batches

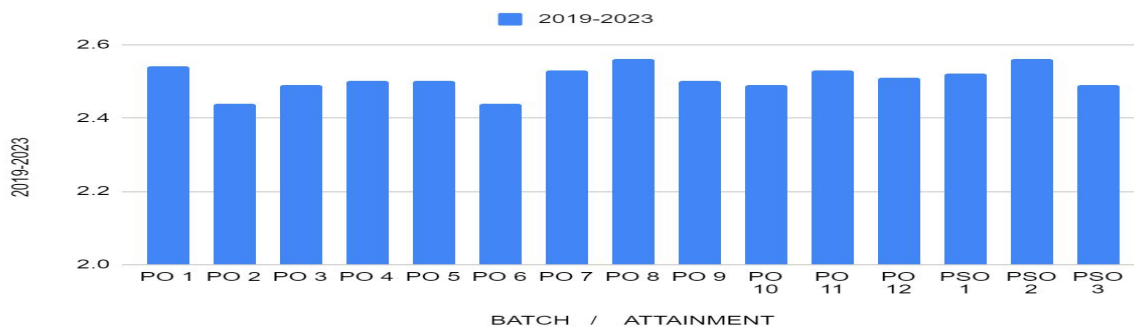
#### ● Department of Civil Engineering

BATCH / ATTAINMENT	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
2019-2023	2.54	2.44	2.50	2.51	2.51	2.45	2.54	2.57	2.50	2.50	2.54	2.51	2.51	2.55	2.49
2018-2022	2.54	2.44	2.47	2.49	2.59	2.46	2.56	2.47	2.60	2.53	2.60	2.57	2.52	2.57	2.75

2018-2022 vs. BATCH / ATTAINMENT



2019-2023 vs. BATCH / ATTAINMENT



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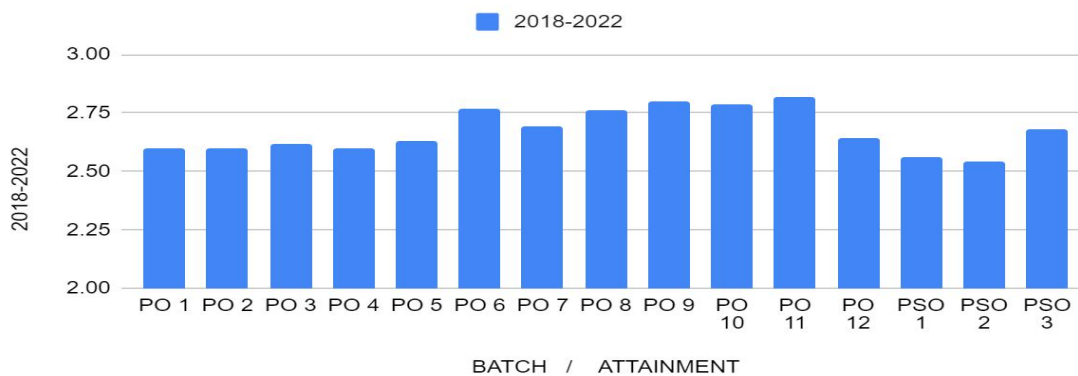
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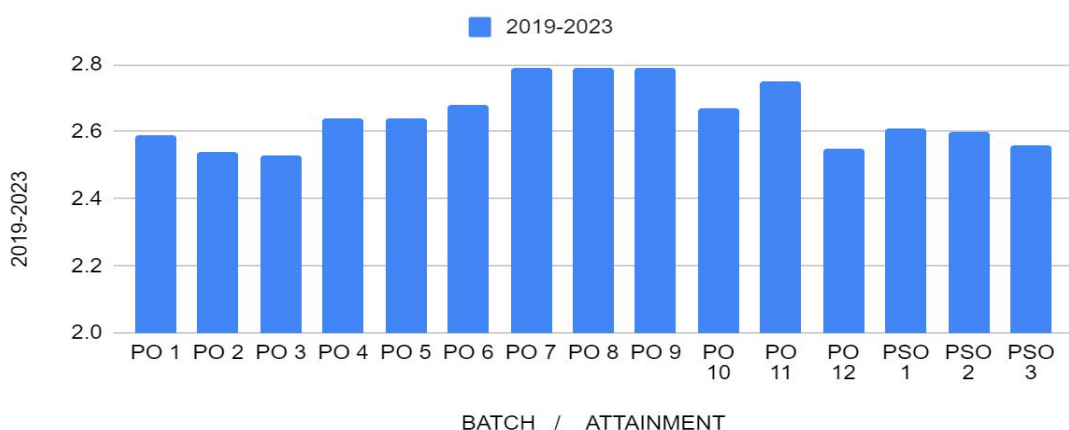
## Department of Electronics & Communication Engineering

BATCH / ATTAINMENT	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
2019-2023	2.59	2.54	2.53	2.64	2.64	2.68	2.79	2.79	2.79	2.67	2.75	2.55	2.61	2.6	2.56
2018-2022	2.60	2.60	2.62	2.60	2.63	2.77	2.69	2.76	2.80	2.79	2.82	2.64	2.56	2.54	2.68

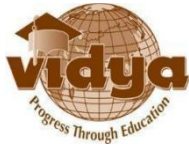
2018-2022 vs. BATCH / ATTAINMENT



2019-2023 vs. BATCH / ATTAINMENT



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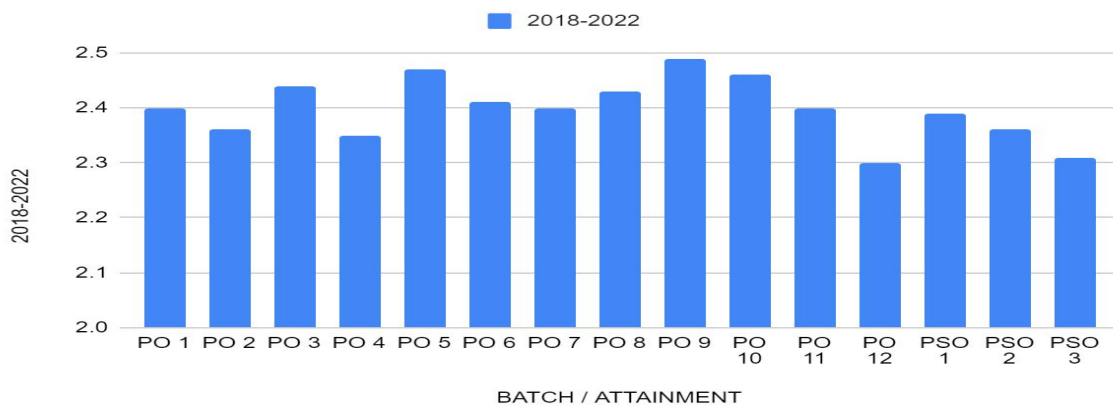
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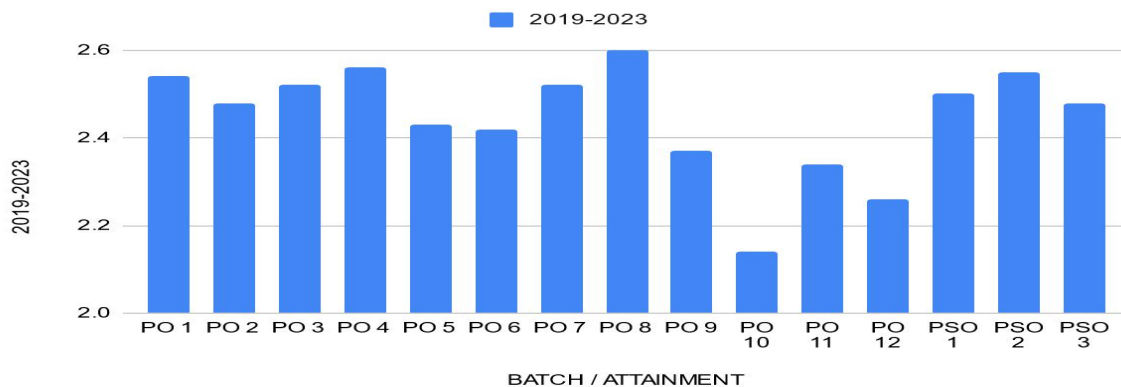
## Department of Electrical & Electronics Engineering

BATCH / ATTAINMENT	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
2019-2023	2.54	2.48	2.52	2.56	2.43	2.42	2.52	2.6	2.37	2.14	2.34	2.26	2.5	2.55	2.48
2018-2022	2.4	2.36	2.44	2.35	2.47	2.41	2.4	2.43	2.49	2.46	2.4	2.3	2.39	2.36	2.31

2018-2022 vs. BATCH / ATTAINMENT



2019-2023 vs. BATCH / ATTAINMENT



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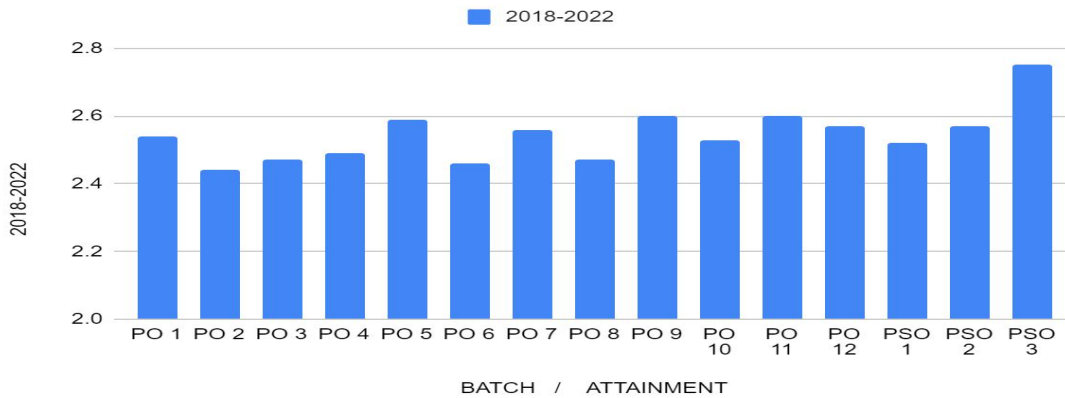
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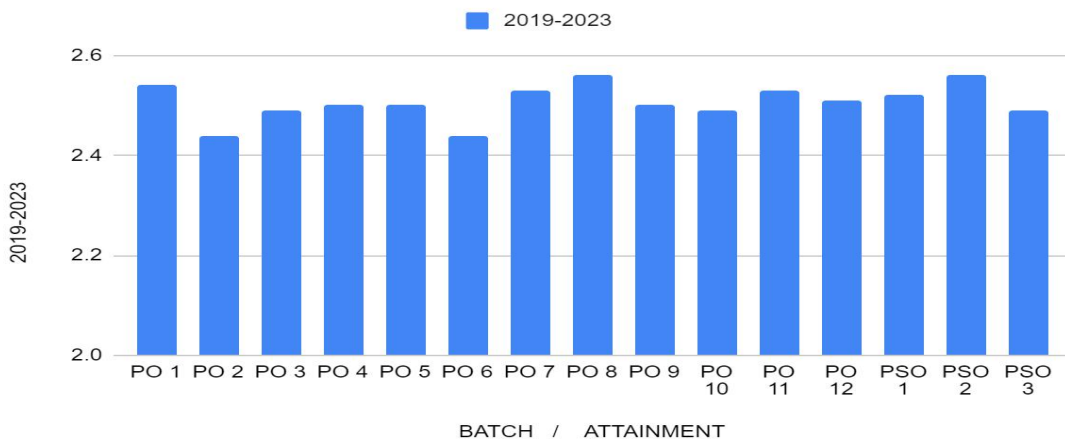
## Department of Mechanical Engineering

BATCH / ATTAINMENT	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
2019-2023	2.54	2.44	2.49	2.5	2.5	2.44	2.53	2.56	2.5	2.49	2.53	2.51	2.52	2.56	2.49
2018-2022	2.54	2.44	2.47	2.49	2.59	2.46	2.56	2.47	2.6	2.53	2.6	2.57	2.52	2.57	2.75

2018-2022 vs. BATCH / ATTAINMENT



2019-2023 vs. BATCH / ATTAINMENT



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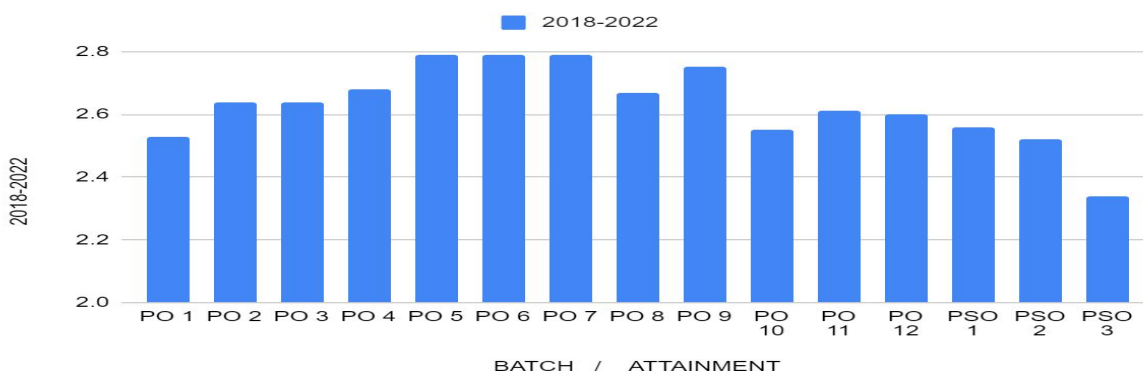
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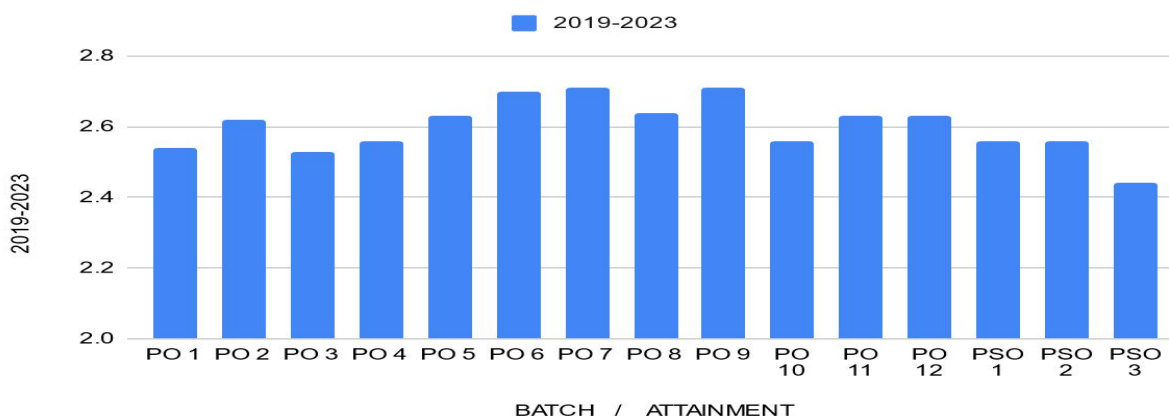
## Department of Computer Science & Engineering

BATCH / ATTAINMENT	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
2019-2023	2.54	2.62	2.53	2.56	2.63	2.7	2.71	2.64	2.71	2.56	2.63	2.63	2.56	2.56	2.44
2018-2022	2.53	2.64	2.64	2.68	2.65	2.79	2.79	2.67	2.75	2.55	2.61	2.6	2.56	2.52	2.34

2018-2022 vs. BATCH / ATTAINMENT



2019-2023 vs. BATCH / ATTAINMENT



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### 2.6.2 c & d Sample CO, PO & PSO mapping and attainment

#### ● CE 402 ENVIRONMENTAL ENGINEERING II

##### COURSE OUTCOMES:

Sl. No	DESCRIPTION
CO 1	After completion of this course, students will acquire an understanding of the fundamental scientific concepts and detailed technical understanding of the technologies required for domestic and industrial wastewater treatment.
CO2	After completion of this course, students can understand the characteristics of sewage water produced.
CO3	After completion of this course, students will be able to select and design appropriate wastewater treatment unit processes and to calculate design specifications for unit processes to treat wastewater of a particular quality to a particular standard.
CO4	After completion of this course, students are aware of the disposal methods of sewage water effectively
CO5	After completion of this course, students can understand the basic processes of Anaerobic treatment methods used.

##### CO - PO/PSO MAPPING:

CO Number	PO STRENGTH												PSO STRENGTH		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
1	2	1		2					1			2	1		
2		1		1		1						2	1		
3	2	2	1									1	1		
4	1			1	1		1					1	1		
5	3					1			1			2	1	1	
Average	2	1.33	1	1.33	1	1	1		1			1.6	1	1	

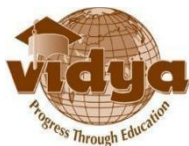


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### CO/PO/PSO ATTAINMENT VALUES

CO/ Attainment	CO1	CO2	CO3	CO4	CO5
CE 402	2.7	2.03	2.28	2.76	2.27

PO/PSO Attainment	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
CE 402	2.33	2.21	2.28	2.33	2.76	2.15	2.76		2.27			2.27	2.36	2.27	

### ● MET305 INDUSTRIAL & SYSTEMS ENGINEERING

#### COURSE OUTCOMES:

Sl. No	DESCRIPTION
CO 1	After completion of this course, students will acquire an understanding to Implement various tools and techniques in industrial engineering.
CO2	After completion of this course, students can understand how to calculate the inventory system for a given requirement.
CO3	After completion of this course, students will be able to explain the importance of industrial relations.
CO4	After completion of this course, students are able to select the lean manufacturing tools to find and eliminate wastes and Identify the framework of agile manufacturing
CO5	After completion of this course, students can identify core and extended modules of enterprise resource planning.

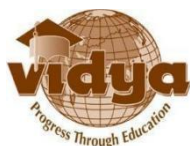


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### CO - PO/PSO MAPPING:

CO Number	PO STRENGTH												PSO STRENGTH		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O 1	PS O 2	PS O 3
1		1			1				3	3		3			
2			2	2	2	3		3	2			3			
3	2	3	2	1	2	2		1	2			3	2	3	3
4	3	3	3	3	3	2		2	1			3		3	3
5	3	3	3	3	3	2		2	1			3		3	3
<b>Average</b>	2.67	2.5	2.5	2.2	2.2	2.2		2	1.8	3		3	2	3	3

### CO/PO/PSO ATTAINMENT VALUES

CO/ Attainment	CO1	CO2	CO3	CO4	CO5
MET305	3	3	3	2.52	3

PO/PSO Attainment	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
MET305	2.82	2.86	2.86	2.84	2.87	2.89		2.88	2.95	3.00		2.90	3.00	2.84	2.84



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### ● EE309 MICROPROCESSOR AND EMBEDDED SYSTEMS

#### COURSE OUTCOMES:

Sl. No	DESCRIPTION
CO 1	After completion of this course, students will be able to justify and explain the use of microprocessors in different applications.
CO2	After completion of this course, students will be able to choose and use a microprocessor for an application.
CO3	After completion of this course, students will be able to combine different technologies for the betterment of society Synthesis.
CO4	After completion of this course, students will be able to develop an idea about the basics of embedded systems and of microcontrollers.
CO5	After completion of this course, students will be able to design and interface microcontroller-based embedded systems.

#### CO - PO/PSO MAPPING:

CO Number	PO STRENGTH												PSO STRENGTH		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
1	1	1	1		2	1	1			2	2	1	1		
2	1	1	1		2	2	1		1	1	1			1	
3	1	1				1				2	2	1	1		2
4	2	2	1		1	1	1		1		1	2		1	
5	1	1				1			2	2	2	1	1	1	
<b>Average</b>	1.2	1.2	1		1.67	1.2	1		1.33	1.75	1.6	1.25	1	1	2



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### CO/PO/PSO ATTAINMENT VALUES

CO/ Attainment	CO1	CO2	CO3	CO4	CO5
EE309	2.68	2.68	2.68	2.68	2.68

PO/PSO Attainment	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
EE309	2.68	2.68	2.68		2.68	2.68	2.68		2.68	2.68	2.68	2.68	2.68	2.68	2.68

### ● EE333 ELECTRICAL MACHINES LAB II

#### COURSE OUTCOMES:

Sl. No	DESCRIPTION
CO 1	After completion of this course, students will be able to predict the performance of Induction machines using standard equivalent circuit models
CO2	After completion of this course, students will be able to select the appropriate machines based on the application requirements
CO3	After completion of this course, students will be able to illustrate laboratory data and experimental results using professional quality graphical representations
CO4	After completion of this course, students will work in teams to conduct experiments, analyze results, and develop technically sound reports of outcomes
CO5	After completion of this course, students will be able to identify faults occurring in machines and take necessary corrective measures



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CO Number	PO STRENGTH												PSO STRENGTH		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
1	3		3												
2	3			2	2								2		
3			3												
4				2	2				2						
5			3	2									2		
<b>Average</b>	3		3	2	2				2				2		

### CO/PO/PSO ATTAINMENT VALUES

CO/ Attainment	CO1	CO2	CO3	CO4	CO5
EE333	3	3	3	3	3

PO/PSO Attainment	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
EE333	3		3	3	3				3				3		



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### ● EC 302 DIGITAL COMMUNICATION

#### COURSE OUTCOMES:

Sl. No	DESCRIPTION
CO 1	After completion of this course, students will be able to apply probability and random process concepts for designing the various digital pulse modulation and line coding schemes.
CO2	After completion of this course, students Students will be able to recognize the effects of inter-symbol interference and the channel noise in the transmission of digital data through a base-band channel
CO3	After completion of this course, students will be able to analyse the geometric representation of signals of finite energy for the study of data transmission and the maximum likelihood procedure for the detection of signal in AWGN channel.
CO4	After completion of this course, students will be able to categorize the digital modulation schemes and their detection in the presence of noise.
CO5	After completion of this course, students Students will be able to compare the basic principle of spread spectrum modulation and the concepts of FHSS and DSSS, various multiple access and diversity techniques used in multi-user communication systems

#### CO - PO/PSO MAPPING:

CO Number	PO STRENGTH												PSO STRENGTH		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
1	3	3	1										2		
2	2	1	2										1	2	1
3	2	2	3										1		
4	3	2	3										2	1	2
5	3	2	2			2							2	2	
Average	2.2	2	2.2			2							1.6	1.67	1.5



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### CO/PO/PSO ATTAINMENT VALUES

CO/ Attainment	CO1	CO2	CO3	CO4	CO5
EC 302	2.68	2.68	2.68	2.68	2.68

PO/PSO Attainment	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
EC 302	2.68	2.68	2.68			2.68							2.68	2.68	2.68

### ● CST 201 DATA STRUCTURES

#### COURSE OUTCOMES:

Sl. No	DESCRIPTION
CO 1	After completion of this course, Design an algorithm for a computational task and calculate the time/space complexities of that algorithm.
CO2	After completion of this course, Identify the suitable data structure (array or linked list) to represent a data item required to be processed to solve a given computational problem and write an algorithm to find the solution of the computational problem.
CO3	After completion of this course, Write an algorithm to find the solution of a computational problem by selecting an appropriate data structure (binary tree/graph) to represent a data item to be processed.
CO4	After completion of this course, Store a given dataset using an appropriate Hash Function to enable efficient access of data in the given set and select appropriate sorting algorithms to be used in specific circumstances.
CO5	After completion of this course, Design and implement Data Structures for solving real world problems efficiently.



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1	3	3	3	3		3						3	3	3	
2	3	3	3	3		3						3	3	3	
3	3	3	3	3		3						3	3	3	
4	3	3	3	3		3						3	3	3	
5	3	3	3	3		3						3	3	3	
Average	3	3	3	3		3						3	3	3	

### CO/PO/PSO ATTAINMENT VALUES

CO/ Attainment	CO1	CO2	CO3	CO4	CO5
CST 201	2.68	2.68	2.68	2.68	2.68

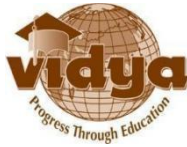
PO/PSO Attainment	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
CST 201	2.68	2.68	2.68	2.68		2.68						2.68	2.68	2.68	



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## III. SAMPLE ATTAINMENT CALCULATION FOR 2018-22 CE BATCH

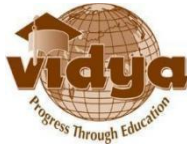
Subject	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
MA 101 CALCULUS	2.23	2.23		2.23											2.23
CY 100 ENGINEERING CHEMISTRY	2.40				2.40									2.40	3.40
BE110 ENGINEERING GRAPHICS	2.28				2.90					2.20			3.00	2.42	3.28
BE 101 10 INTRODUCTION TO CIVIL ENGINEERING	2.80	3.00		2.80	3.00	2.80	3.00	2.90	2.80					2.90	3.20
BE 103 INTRODUCTION TO SUSTAINABLE ENGINEERING	3.00	3.00	3.00	3.00	3.00		3.00				3.00				3.00
ME 100 BASICS OF MECHANICAL ENGINEERING	2.20	2.10							1.95				1.95	2.20	2.00
CY110 ENGINEERING CHEMISTRY LAB	3.00	3.00	3.00	3.00						3.00			3.00	3.00	3.00
CE 110 CIVIL ENGINEERING WORKSHOP	3.00				3.00	3.00		3.00	3.00	3.00	3.00	3.00	3.00	3.00	4.00
ME 110 MECHANICAL ENGINEERING WORKSHOP	3.00		3.00		3.00					3.00		3.00	3.00		4.00
MA102 DIFFERENTIAL EQUATIONS	2.33	2.33		2.33											2.33
PH100 ENGINEERING PHYSICS	2.60	2.60						2.60	2.60				2.60	2.60	2.60
BE100 ENGINEERING MECHANICS	2.68			2.68	2.68	2.68			2.68	2.68	2.68	2.68	2.68	2.68	3.68
BE102 DESIGN & ENGINEERING		3.00	3.00				3.00	3.00			3.00				3.00
EE 100 Basics of Electrical Engineering	2.45	2.45	2.45				2.45						2.45	2.45	2.45
EC 100 Basics of Electronics Engineering	2.60	2.60											2.60	2.60	2.60
PH110 ENGINEERING PHYSICS LAB	2.92				2.92			2.92	2.92				2.92	2.92	3.92
EE 110 Basic Electrical Engineering Workshop	3.00	3.00	3.00		3.00	3.00			3.00			3.00	3.00	3.00	3.00
EC 110 Basic Electronics Engineering Workshop	3.00			3.00					3.00	3.00			3.00	3.00	4.00
MA201 LINEAR ALGEBRA AND COMPLEX ANALYSIS	2.18	2.18		2.18											2.18
HS 210 LIFE SKILLS	1.32	1.22												1.32	1.12
CE201 MECHANICS OF SOLIDS	2.68	2.68				2.68			2.68					2.68	2.68
CE203 FLUID MECHANICS I	2.62	2.57	2.54	2.62	2.57	2.62	2.62		2.42				2.62	2.54	2.43
CE205 ENGINEERING GEOLOGY	2.68			2.68	2.68	2.68			2.68	2.68	2.68	2.68	2.68	2.68	3.68
CE207 SURVEYING		2.40	2.40	2.00		2.10		2.00	2.30	2.40	2.00	2.30		2.40	



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MA202 Probability Distributions, Transforms and Numerical Methods	2.16	2.18	2.08															2.16	2.06				
CE202 Structural Analysis- I	2.10	2.10		2.10														2.10	2.10	2.10			
CE204 Construction Technology				2.68					2.68	2.68	2.68							2.68	2.68	2.68			
CE206 Fluid Mechanics- II	2.58		2.58	2.58					2.58	2.58								2.58	2.58	3.58			
CE208 Geotechnical Engineering- I	2.80	2.78	1.20	2.42	2.42	1.20	1.20	1.32										2.45	2.87	0.94			
HS200 Business Economics	2.48	1.91	1.14	2.58	2.48	1.91	1.14					1.24	2.54					2.58	2.58	1.56			
CE232 Materials Testing Lab I	2.20			2.20								2.60	2.00						2.54	3.20			
CE234 Fluid Mechanics Lab	3.00	2.28	3.00	2.14			3.00	3.00											1.56	2.42	2.14		
CE 301 DESIGN OF CONCRETE STRUCTURES I	2.24	2.24	2.24						2.24	2.24									2.24	2.24			
CE 303 STRUCTURAL ANALYSIS II	2.52	2.55							2.52	2.52									2.52	2.52	2.58		
CE 305 GEOTECHNICAL ENGINEERING II	1.88	1.78	1.70	1.75	1.58	1.90	1.67	1.90	1.90	1.67									1.67	1.72	2.14	1.77	
CE 307 GEOMATICS	2.71	3.00	3.00	3.00	3.00							3.00	3.00							2.71	3.00	3.12	
CE 309 WATER RESOURCES ENGINEERING	2.66	2.51	2.58	2.56	2.68	2.44	2.68					2.68								2.55	2.49	2.68	2.59
CE 371 ENVIRONMENT AND POLLUTION	2.20		2.70	2.40	2.70		2.70	2.00	2.00											2.00	2.00	3.20	
CE 361 ADVANCED CONCRETE TECHNOLOGY	2.71	2.64	2.71	2.71	3.00	2.64	3.00	2.64	2.71	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.71	2.67		
CE 365 FUNCTIONAL DESIGN OF BUILDINGS	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00		
CE341 DESIGN PROJECT	3.00	3.00	3.00	3.00	3.00		3.00		3.00	3.00									3.00	3.00	3.00	3.00	
CE 331 MATERIALS TESTING LAB II	2.30			2.30								2.70	2.00							2.70	2.30	3.30	
CE 333 GEOTECHNICAL ENGINEERING LAB	2.38	2.58	2.18	1.56	2.28	2.36	3.00													2.28	2.55		
CE302 Design of Hydraulic Structures	2.62	2.52	2.49				2.59	3.00				2.90								2.90	2.58	2.90	2.41
CE304 Design of Concrete Structures: II	2.50	2.52						2.60	2.40											2.62	2.54	2.54	
CE306 Computer Programming and Computational Technique	2.68	2.68	2.68	2.68	2.68															2.68	2.68	2.68	
CE308 Transportation Engineering- I	3.00		3.00		3.00	3.00						3.00								3.00	3.00	4.00	
HS300 Principles of Management								3.00	3.00			3.00	3.00								3.00		
CE 362 Ground Improvement Technique	2.75	2.50	3.00																	2.00	3.00	2.00	3.00
CE366 Traffic Engineering & Management	2.10		2.70		2.50	2.70						2.30								2.30	2.30	3.10	



*[Signature]*

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CE374 Air Quality Management	3.00	3.00		3.00		3.00	3.00			3.00				3.00	3.00
CE332 Transportation Engineering Lab	3.00		3.00		3.00									3.00	4.00
CE334 Computer Aided Civil Engineering Lab					2.56					2.56		2.56	2.56	2.56	
CE352 Comprehensive Exam	3.00					3.00		3.00						3.00	4.00
CE401 Design of Steel Structures	2.50		2.50											2.50	3.50
CE403 Structural Analysis III	1.89	1.60	1.38		2.68	1.24		1.38	2.68			1.53	1.53	2.68	1.12
CE405 Environmental Engineering I	2.85	2.80	2.85	3.00	2.83	2.96	3.00					2.80	2.77		3.01
CE407 Transportation Engineering II	2.82		2.90		2.89	3.00			3.00			2.71	2.81		3.82
CE409 Quantity Surveying and Valuation	2.30	2.30	2.30	2.31	2.23	2.36	2.36	2.36	2.36	2.36					2.37
CE473 Environmental Impact Assessment	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
CE467 Highway Pavement Design	2.44	2.56	2.36	2.54	2.68	2.44		2.68			2.68	2.68	2.20	2.44	2.56
CE431 Environmental Engineering Lab		1.56	2.05		1.56	1.56	1.56		1.56	1.56	1.56			1.56	
CE451 Seminar and Project Preliminary	2.98			2.98					2.98	2.98				2.98	3.98
CE402 Environmental Engineering II	2.33	2.21	2.28	2.33	2.76	2.15	2.76		2.27			2.27	2.36	2.27	2.64
CE404 Civil Engineering Project Management	2.52	2.40	2.52	2.28	3.00	3.00	3.00		2.28			2.58	2.84	3.00	3.12
CE474 Municipal Solid Waste Management	3.00		3.00	3.00	3.00	3.00	3.00			3.00	3.00	3.00	3.00		4.00
CE472 Transportation Planning			2.13			2.08	2.07			2.27			2.39	2.03	
CE492 PROJECT	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00			3.00	3.00
Count	52	38	38	34	33	31	26	20	34	27	13	36	50	34	52
Direct Attainment	2.59	2.47	2.52	2.56	2.70	2.53	2.61	2.50	2.63	2.56	2.68	2.59	2.57	2.60	2.86
Direct Attainment	2.59	2.47	2.52	2.56	2.70	2.53	2.61	2.50	2.63	2.56	2.68	2.59	2.57	2.60	2.86
Indirect attainment	2.35	2.31	2.26	2.21	2.15	2.21	2.37	2.35	2.47	2.38	2.30	2.46	2.29	2.43	2.30
PO/PSO attainment	2.54	2.44	2.47	2.49	2.59	2.46	2.56	2.47	2.60	2.53	2.60	2.57	2.52	2.57	2.75



*(Handwritten Signature)*

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