

COURSE OUTCOMES (COs) ASSESSMENT MATRIX

Alva's Institute of Engineering and Technology, Moodbidri

Department of Artificial Intelligence and Machine Learning

Academic Year: 2023-2024

Course Name & Course Code Computer Vision/18AI742

Faculty Name: SHRIKANTH N G

CO Attainment - Direct				CO Attainment Indirect	CO Attainment
Cos	Formative Assessment	Summative Assessment	Total Attainment Direct		
18AI742.1	3	1	2.00	3	2.1
18AI742.2	0	1	0.50	3	0.75
18AI742.3	0	1	0.50	3	0.75
18AI742.4	1	1	1.00	3	1.2
18AI742.5	3	1	2.00	3	2.1
18AI742.6					
Average			1.20	3	1.38

Attainment Level 1: 50% students rated more than or equal to 50% of maximum marks
Attainment Level 2: 60% students rated more than or equal to 50% of maximum marks
Attainment Level 3: 70% students rated more than or equal to 50% of maximum marks

Note:

Total Attainment Direct = (Weightage*Formative Assessment)+(Weightage*Summative Assessment) Weightage for Formative Assessment = 50%; Weightage for Summative Assessment = 50%

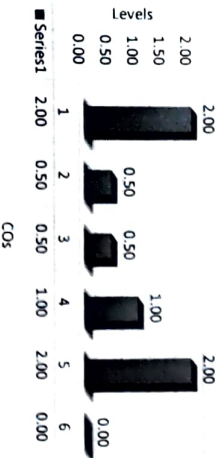
CO Attainment = (Weightage*Total Attainment Direct)+(Weightage*CO Attainment Indirect) Weightage for Total Attainment Direct = 90%; Weightage for CO Attainment Indirect = 10%

Faculty Name & Signature:

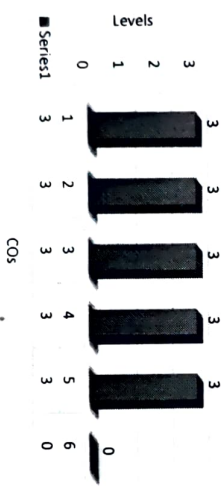
SHRIKANTH N.G.

HOD Signature:

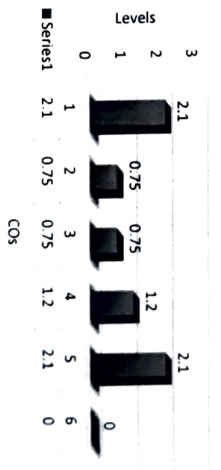
Total Attainment Direct



CO Attainment Indirect



CO Attainment Total



PROGRAMME OUTCOME & PROGRAMME SPECIFIC OUTCOME ASSESSMENT MATRIX
Alva's Institute of Engineering and Technology, Moodbidri
Department of Artificial Intelligence & Machine Learning

2023-2024

Computer vision
18AI742

SHRIKANTH N G

PO3

Faculty Name:		SHRINIVATH N.V.															
CO	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02	PS03	PS04	PS05
18A1742.1	2	2										2	2			2	2
18A1742.2	2	2	2									2	2			2	2
18A1742.3	2	2										2	2			2	2
18A1742.4	2	2	2									2	2			2	2
18A1742.5	2	2	2									2	2				
18A1742.6												2	2			2	2
AVG	2	2	2									2	2			2	2

Key Variable (Row)	Apply Knowledge	Solve Problems	Design/Develop Solutions	Consult Investigations	Use Modern Tools	Engage and Satisfy Society	Implement and Institutionalize	Predict and Monitor Risks	Individual Work	Communicate Effectively	Project Management and Planning	Life-long Learning	PRO 1	PRO 2	PRO 3	PRO 4	PRO 5
18A1743 Direct (%)	0.81	0.81	0.68									0.81	0.81			0.81	0.81
18A1743 Indirect (%)	2	2	2								2	2	2			2	2
Attachment Level	0.93	0.93	0.82									0.93	0.93			0.93	0.93

PO Attainment Calculation Direct

COs		CO Attainment Grade	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02	PS03	PS04	PS05
18AI742.1	2.00	1.34	1.34	0	0	0	0	0	0	0	0	0	0	1.34	1.34	0	1.34	1.34	
18AI742.2	0.5	0.34	0.34	0.34	0	0	0	0	0	0	0	0	0	0.34	0.34	0	0	0.34	0.34
18AI742.3	0.5	0.34	0.34	0.34	0	0	0	0	0	0	0	0	0	0.67	0.67	0	0	0.67	0.67
18AI742.4	1	0.67	0.67	0	0	0	0	0	0	0	0	0	0	1.34	1.34	0	1.34		
18AI742.5	2	1.34	1.34	1.34	0	0	0	0	0	0	0	0	0						
18AI742.6																			
	Weighted Sum-->	4.03	4.03	2.69	0	0	0	0	0	0	0	0	0	4.03	4.03	0	0	4.03	4.03
	Max Weight-->	10	10	8	0	0	0	0	0	0	0	0	0	10	10	0	0	10	10
	Max Weight-->	40.30	40.30	33.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.30	40.30	0.00	0.00	40.30	40.30
PO Attainment in percentage		P0	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02	PS03	PS04	PS05
	Attained Grade	0.81	0.81	0.68										0.81	0.81			0.81	0.81

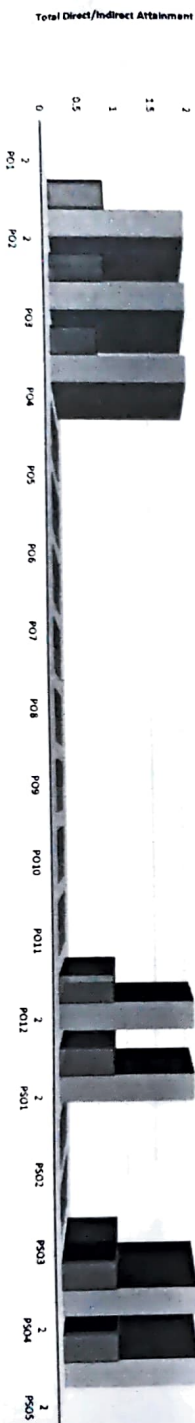
PO Attainment Calculation Indirect

PO Attainment Calculation Interface																			
COs	CO Attainment Grade	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02	PS03	PS04	PS05	
1BA1742.1	3	2	2	2	0	0	0	0	0	0	0	0	2	2	0	0	2	2	
1BA1742.2	3	2	2	2	0	0	0	0	0	0	0	0	2	2	0	0	2	2	
1BA1742.3	3	2	2	2	0	0	0	0	0	0	0	0	2	2	0	0	2	2	
1BA1742.4	3	2	2	2	0	0	0	0	0	0	0	0	2	2	0	0	2	2	
1BA1742.5	3	2	2	2	0	0	0	0	0	0	0	0	2	2	0	0	2	2	
1BA1742.6																			
	Weighted Sum ---->	10	10	8	0	0	0	0	0	0	0	0	10	10	0	0	10	10	
	Max Weight ----->	10	10	8	0	0	0	0	0	0	0	0	10	10	0	0	10	10	
PO Attainment in percentage	----->	100.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	100.00	100.00	
	PO Attained	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02	PS03	PS04	PS05	
	Grade	2	2	2									2	2			2	2	

Faculty Name & Signature: JHEIKHAN N.H.
Nico Rodriguez

HOD Signature:

PO Attainment Chart



Academic Year:		2023-2024	
Course Name:		Computer Vision	
Course Code:		18AI742	
Faculty Name:		SHRIKANTH N G	

Observations and Action Plan (Direct)			
Course	Target	Attainment	Gap
18AI742	2	1.20	-0.80

Observation		Action Proposed to bridge the Gap
Image Formation	Have to focus on more hands-on on all mentioned techniques	
Steropsis to understand the shape of picture		
Computer vision tools to Segmentation and image processing.		

Outcomes on Actions for CAYm1 Observations/Suggestions	
Sl. No.	Action Taken
1	NA

Faculty Name & Signature:	SHRIKANTH N.G. N.G. Shrikanth
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HOD Signature:	K.N.G.
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COURSE OUTCOMES (COs) ASSESSMENT MATRIX

Alva's Institute of Engineering and Technology, Moodbidri

Department of Computer Science & Design

Academic Year:

2023-24

Course Name & Course Code:

Analysis & Design of Algorithms /
Dr. Shreyasrased B J

Faculty Name:

CO Attainment - Direct

Cos	Formative Assessment	Summative Assessment	Total Attainment Direct	CO Attainment Indirect	CO Attainment
.1	3	2	2.50	3	2.55
.2	3	2	2.50	3	2.55
.3	3	2	2.50	3	2.55
Average			2.50	3	2.55

Attainment Level 1: 50% students rated more than or equal to 50% of maximum marks
Attainment Level 2: 50% students rated more than or equal to 50% of maximum marks
Attainment Level 3: 70% students rated more than or equal to 50% of maximum marks

Note:

Total Attainment Direct = (Weightage*Formative Assessment)+(Weightage*Summative Assessment) Weightage for Formative Assessment = 50%; Weightage for Summative Assessment = 50%

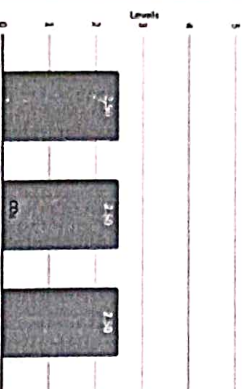
CO Attainment = (Weightage*Total Attainment

Direct)+(Weightage*CO Attainment Indirect) Weightage for Total

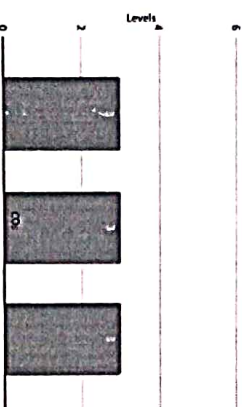
Faculty Name & Signature:

HOD Signature:

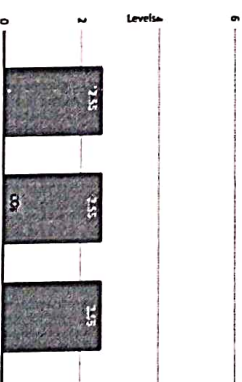
Total Attainment Direct



CO Attainment Indirect



CO Attainment Total



PROGRAMME OUTCOME & PROGRAMME SPECIFIC OUTCOME ASSESSMENT MATRIX
Alva's Institute of Engineering and Technology, Moodbidri
 Department of Computer Science & Design

Academic Year: 2022-23
 Course Name: **Computer Science & Design**
 Course Code: **CS001**
 Faculty Name: **Dr. S. S. S. S.**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	3	3	1	1	1							1	3	1	
2	2	3	1	1	1							1	3	1	
3	2	2	3	1	1							1	3	1	
4	2	2	3	1	1							1	3	1	
Avg	2.34	2.67	1.67	1	1							1	3	1	

For Every PO	Self Knowledge	Self-Expression	Interpersonal Skills	Communication	Team Building	Leadership and Team Work	Problem Solving	Professionalism	Self-Management	Life-long Learning	PSO 1	PSO 2	PSO 3
Direct Indirect	1.56 2.54	1.23 2.57	1.4 1.67	0.54 1	0 1	0 0	0 0	0 0	0 0	0.84 1	2.5 3	0.84 1	0 0
Attainment Level	2	2.23	1.43	0.86	0.86	0	0	0	0	0.86	2.55	0.86	0

PO Attainment Calculation Direct

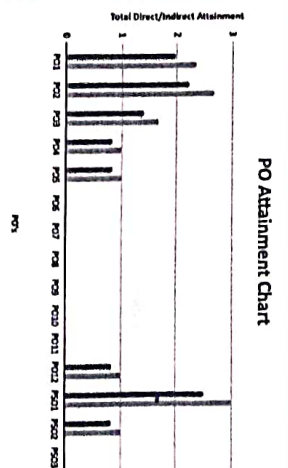
COs	CO Attainment Grade	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	2.5	2.5	2.5	0.84	0.84	0.84	0	0	0	0	0	0	0.84	2.5	0.84	0
2	2.5	1.67	2.5	0.84	0.84	0.84	0	0	0	0	0	0	0.84	2.5	0.84	0
3	2.5	1.67	1.67	2.5	0.84	0.84	0	0	0	0	0	0	0.84	2.5	0.84	0
4	2.5	1.67	1.67	2.5	0.84	0.84	0	0	0	0	0	0	0.84	2.5	0.84	0
Weighted Sum ->		6.24	6.67	4.16	2.52	2.52	0	0	0	0	0	0	2.52	7.5	2.52	0
Max Weight ->		7	7	7	3	3	0	0	0	0	0	0	3	9	3	0
PO Attainment as percentage		89.14	95.33	59.50	84.00	84.00	0.00	0.00	0.00	0.00	0.00	0.00	84.00	83.33	84.00	0.00
PO Attainment Grade		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Grade		1.96	2.23	1.4	0.84	0.84	0	0	0	0	0	0	0.84	2.5	0.84	0

PO Attainment Calculation Indirect

COs	CO Attainment Grade	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	3	3	3	1	1	1	0	0	0	0	0	0	1	3	1	0
2	3	3	3	1	1	1	0	0	0	0	0	0	1	3	1	0
3	3	3	3	1	1	1	0	0	0	0	0	0	1	3	1	0
4	3	3	3	1	1	1	0	0	0	0	0	0	1	3	1	0
Weighted Sum ->		7	8	5	3	3	0	0	0	0	0	0	3	9	3	0
Max Weight ->		7	8	5	3	3	0	0	0	0	0	0	3	9	3	0
PO Attainment as percentage		100.00	100.00	100.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	100.00	0.00
PO Attainment Grade		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Grade		2.34	2.67	1.67	1	1	0	0	0	0	0	0	1	3	1	0

Faculty Name & Signature: 

HOD Signature: 



2023-24

Analysis & Design of Algorithms

BCS401

Dr. Sharmada B J

Observations and Action Plan (Direct)

Course	Target	Attainment	Gap	Observation	Action Proposed to bridge the Gap
2	2.50	0.00			

Outcomes on Actions for CAYm1 Observations/Suggestions

Sl. No.	Action Taken	Change Observed
1		

Faculty Name & Signature: 

HOD Signature: 



PROGRAMME OUTCOME & PROGRAMME SPECIFIC OUTCOME ASSESSMENT MATRIX
Alva's Institute of Engineering and Technology, Moodbidri
Department of Computer Science and Engineering

2023-2024

Data Analytics with Excel Laboratory

Dr. Senthil Kumar R. N. M. ABHILASH L. KOTIAN A. M. GIRDHAR

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
BCS358A.1	2	2	2	2	3				1	1	2	3	2	2	2
BCS358A.2	2	2	2	3	3				2	1	2	3	2	2	2
BCS358A.3	1	1	1	1	3				1	1	2	3	2	1	2
BCS358A.4	1	2	2	2	3				1	1	2	3	3	3	3
BCS358A.5	1	1	1	3	3				2	2	2	3	3	3	3
BCS358A.6															
AVG	1.4	1.6	1.6	2	3				1.4	1.2	2	3	2.4	2.2	2.4

for each PO	Apply Knowledge	Solve Problems	Design/development of solution	Conduct investigations	Use Modern Tools	Engineer and build	Experiment and innovation	Published research papers	Technical and Team Work	Communication and team work	Project Management and Finance	Leadership	Professionalism	Public Speaking Skills	Successful Career & Entrepreneurship
BCS358A Direct Indirect	1.4	1.6	1.6	2	3				1.4	1.2	2	3	2.4	2.2	2.4
BCS358A Indirect	1.4	1.6	1.6	2	3				1.4	1.2	2	3	2.4	2.2	2.4
Attainment Level	1.4	1.6	1.6	2	3				1.4	1.2	2	3	2.4	2.2	2.4

PO Attainment Calculation Direct

COs	CO Attainment Grade	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
BCS358A.1	3.00	2	2	2	2	3	4	0	0	1	1	2	3	2	2	2
BCS358A.2	3.00	2	2	2	3	3	4	0	0	2	1	2	3	2	2	2
BCS358A.3	3.00	1	1	1	1	3	4	0	0	1	1	2	3	2	1	2
BCS358A.4	1.00	1	2	2	2	3	4	0	0	1	1	2	3	3	3	3
BCS358A.5	3.00	1	1	1	1	3	4	0	0	2	2	2	3	3	3	3
BCS358A.6																
Max Weight	7	8	8	10	15	3	4	0	0	7	6	10	15	12	11	12
Max Weight	7	8	8	10	15	3	4	0	0	7	6	10	15	12	11	12
PO Attainment in percentage	100.00	100.00	100.00	100.00	100.00	0.00	0.00	0.00	0.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO3
Attained Grade	1.4	1.6	1.6	2	3				1.4	1.2	2	3	2.4	2.2	2.4	2.4

PO Attainment Calculation Indirect

COs	CO Attainment Grade	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
BCS358A.1	3	2	2	2	2	3	0	0	0	1	1	2	3	2	2	2
BCS358A.2	3	2	2	2	3	3	0	0	0	2	1	2	3	2	2	2
BCS358A.3	3	1	1	1	1	3	0	0	0	1	1	2	3	2	1	2
BCS358A.4	3	2	2	2	2	3	0	0	0	1	1	2	3	3	3	3
BCS358A.5	3	1	1	1	2	3	0	0	0	2	2	2	3	3	3	3
BCS358A.6																
Weighted Sum	7	8	8	10	15	3	0	0	0	7	6	10	15	12	11	12
Max Weight	7	8	8	10	15	3	0	0	0	7	6	10	15	12	11	12
PO Attainment in percentage	100.00	100.00	100.00	100.00	100.00	0.00	0.00	0.00	0.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO3
Attained Grade	1.4	1.6	1.6	2	3				1.4	1.2	2	3	2.4	2.2	2.4	2.4

Faculty Name & Signature:

1. Dr. Senthil Kumar R. N. M.
2. Abhishek L. Kotian
3. Girish D. S.

HOD Signature:

Head of the Department
Dept. of Computer Science & Engineering
Alva's Institute of Engineering and Technology
Moodbidri, Karnataka 577225, India

COURSE OUTCOMES (COs) ASSESSMENT MATRIX

Alva's Institute of Engineering and Technology, Moodbidri
Department of Computer Science and Engineering

Academic Year:

2023-2024

Course Name & Course Code:

Data Analytics with Excel Laboratory/BCS358A

Faculty Name:

Dr. SENTHIL KUMAR R. & Mr. ABHILASH L KOTIAN & Mr. GIRIDHAR G

Cos	CO Attainment - Direct			CO Attainment Indirect	CO Attainment
	Formative Assessment	Summative Assessment	Total Attainment Direct		
BCS358A.1	3	3	3.00	3	3
BCS358A.2	3	3	3.00	3	3
BCS358A.3	3	3	3.00	3	3
BCS358A.4	3	3	3.00	3	3
BCS358A.5	3	3	3.00	3	3
BCS358A.6					
Average			3.00	3	3

Faculty Name & Signature:	1. Dr. Senthil Kumar R. R. 2. Mr. Abhilash L Kotian 3. Mr. Giridhar G	HOD Signature:	
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Dr. Senthil Kumar R. R.
Head of Department
Alva's Institute of Engineering and Technology
Moodbidri

Attainment Level 1: 50% students scored more than or equal to 50% of maximum marks
Attainment Level 2: 60% students scored more than or equal to 60% of maximum marks
Attainment Level 3: 70% students scored more than or equal to 70% of maximum marks

Note:
Total Attainment Direct = (Weightage*Formative Assessment)+(Weightage*Summative Assessment)
CO Attainment = (Weightage*Total Attainment Direct)+(Weightage*CO Attainment Indirect)

PROGRAMME OUTCOME & PROGRAMME SPECIFIC OUTCOME ASSESSMENT MATRIX

Alva's Institute of Engineering and Technology, Moodbidri
Department of Computer Science and Engineering

ALVA'S

35/34

Academic Year:
Course Name:
Course Code:
Faculty Name:

Data Structure and Applications
BCS304
Harshvardhan, Deepika Kumari

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
BCS304.1	2	2	2	1	1				1	1	1	2	2	2	2
BCS304.2	2	2	2	1	1				1	1	1	2	2	2	2
BCS304.3	2	2	2	1	1				1	1	1	2	2	2	2
BCS304.4	2	2	2	1	1				1	1	1	2	2	2	2
BCS304.5	2	2	2	1	1				1	1	1	2	2	2	2
BCS304.6	2	2	2	1	1				1	1	1	2	2	2	2
AVG	2	2	2	1	1				1	1	1	2	2	2	2

Key Words (PO)	Apply Knowledge	Solve Problems	Design or Analysis	Control	Use Software Tools	Engage and Society	Personal and Sustainability	Professional Ethics	Independent Work	Communicative Effectiveness	Project Management and Planning	Life-long Learning	PSO 1	PSO 2	PSO 3
BCS304 Direct (P)	2	2	2	1	1	0	0	0	1	1	1	2	2	2	2
BCS304 Indirect (I)	2	2	2	1	1	0	0	0	1	1	1	2	2	2	2
Attainment Level	2	2	2	1	1	0	0	0	1	1	1	2	2	2	2

PO Attainment Calculation Direct

COs	CO Attainment Grade	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
BCS304.1	3.00	2	2	2	1	1	0	0	0	1	1	1	2	2	2	2
BCS304.2	3	2	2	2	1	1	0	0	0	1	1	1	2	2	2	2
BCS304.3	3	2	2	2	1	1	0	0	0	1	1	1	2	2	2	2
BCS304.4	3	2	2	2	1	1	0	0	0	1	1	1	2	2	2	2
BCS304.5	3	2	2	2	1	1	0	0	0	1	1	1	2	2	2	2
BCS304.6																
Weighted Sum -->		10	10	10	5	5	0	0	0	5	5	5	10	10	10	10
Max Weight -->		10	10	10	5	5	0	0	0	5	5	5	10	10	10	10
PO Attainment in percentage -->		100.00	100.00	100.00	100.00	100.00	0.00	0.00	0.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
PO Attained Grade		2	2	2	1	1	0	0	0	1	1	1	2	2	2	2

PO Attainment Calculation Indirect

COs	CO Attainment Grade	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
BCS302.1	3	2	2	2	1	1	0	0	0	1	1	1	2	2	2	2
BCS302.2	3	2	2	2	1	1	0	0	0	1	1	1	2	2	2	2
BCS302.3	3	2	2	2	1	1	0	0	0	1	1	1	2	2	2	2
BCS302.4	3	2	2	2	1	1	0	0	0	1	1	1	2	2	2	2
BCS302.5	3	2	2	2	1	1	0	0	0	1	1	1	2	2	2	2
BCS302.6																
Weighted Sum -->		10	10	10	5	5	0	0	0	5	5	5	10	10	10	10
Max Weight -->		10	10	10	5	5	0	0	0	5	5	5	10	10	10	10
PO Attainment in percentage -->		100.00	100.00	100.00	100.00	100.00	0.00	0.00	0.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
PO Attained Grade		2	2	2	1	1	0	0	0	1	1	1	2	2	2	2

Faculty Name & Signature: *H. Harshvardhan*

HOD Signature: *[Signature]*

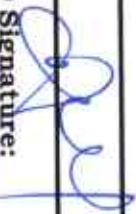
Head of the Department

Dept. of Computer Science & Engineering
Alva's Institute of Engineering and Technology
Mysuru, Moodbidri - 574 445, U.K. Karnataka, India

Academic Year:	23-24				
Course Name:	Data Structure and Applications				
Course Code:	BCS304				
Faculty Name:	Harshavardhan, Deepika Kamath				
Observations and Action Plan (Direct)					
Course	Target	Attainment	Gap	Observation	Action Proposed to bridge the Gap
BCS304	2.1	3.00	0.00	No gap	1. Code chef practice and assesement 2. Drill test for poor performers

Outcomes on Actions for CAYm1 Observations/Suggestions		
Sl. No.	Action Taken	Change Observed
1	Code chef practice and assesement	No Gap
2	Drill test for poor performers	

Faculty Name & Signature:  H. Harshavardhan

HOD Signature: 
 Head of the Department
 Dept. of Computer Science & Engineering
 Alva's Institute of Engineering and Technology
 Mugal, Moodubidra - 574 245, D.K. Kannur, India

COURSE OUTCOMES (COs) ASSESSMENT MATRIX					
 Alva's Institute of Engineering and Technology, Moodbidri					
Department of Computer Science and Engineering					
Academic Year:	23-24				
Course Name & Course Code	Data Structure and Applications/BCS304				
Faculty Name:	Hirekshardhan Deepika Kamath				
Coe	CO Attainment - Direct			CO Attainment Indirect	CO Attainment
	Formative Assessment	Summative Assessment	Total Attainment		
BCS304.1	3	3	3.00	3	3
BCS304.2	3	3	3.00	3	3
BCS304.3	3	3	3.00	3	1
BCS304.4	3	3	3.00	3	2
BCS304.5	3	3	3.00	3	2
BCS304.6					
Average			3.00	3	3

Faculty Name & Signature:		HOD Signature:	
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Head of the Department

Dept. of Computer Science & Engineering
Alva's Institute of Engineering and Technology
Mijar, Moodbidri 574 226, U.K. Karnataka, India

Attainment Level 1: 50% student/rated more than or equal to 50% of maximum marks
Attainment Level 2: 60% student/rated more than or equal to 60% of maximum marks
Attainment Level 3: 70% student/rated more than or equal to 70% of maximum marks

Note:
Total Attainment Direct = (Weightage*Formative Assessment)+(Weightage*Summative Assessment) Weightage for Formative Assessment = 50%, Weightage for Summative Assessment = 50%
CO Attainment = (Weightage*total Attainment Direct)+(Weightage*CO Attainment Indirect) Weightage for Total Attainment Direct = 90%, Weightage for CO Attainment Indirect = 10%

Academic Year:
Course Name:
Course Code:
Faculty Name:

2023-2024
Principles of Communication Systems
BEC402
DR. NARAYAN

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
BEC402.1	3	3											3		
BEC402.2	3	3	3		2								3	3	2
BEC402.3	3	3	3		2								3	3	2
BEC402.4	3	3	3		2								3	3	2
BEC402.5	3	3	3										3	3	2
BEC402.6													3	3	
AVG	3	3	3		2								3	3	2

Key Words (POs)	Apply Knowledge	Solve Problems	Design/Development of Solution	Conduct Investigations	Use Modern Tools	Engineer and Society	Environment and Sustainability	Professional Ethics	Individual and Team Work	Communicate Effectively	Project Management and Finance	Life-Long Learning	PSO 1	PSO 2	PSO 3
BEC402 Direct (X)	2	2	2	0	1.34	0	0	0	0	0	0	0	2	2	1.34
BEC402 Indirect (Y)	3	3	3	0	0	0	0	0	0	0	0	0	3	3	2
Attainment Level	2.1	2.1	2.1	0	1.41	0	0	0	0	0	0	0	2.1	2.1	1.41

PO Attainment Calculation Direct

COs	CO Attainment Grade	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
BEC402.1	2.00	2	2	0	0	0	0	0	0	0	0	0	0	2	0	0
BEC402.2	2.00	2	2	2	0	1.34	0	0	0	0	0	0	0	2	2	1.34
BEC402.3	2.00	2	2	2	0	1.34	0	0	0	0	0	0	0	2	2	1.34
BEC402.4	2.00	2	2	2	0	1.34	0	0	0	0	0	0	0	2	2	1.34
BEC402.5	2.00	2	2	2	0	0	0	0	0	0	0	0	0	2	2	0
BEC402.6	2.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Sum --->		10	10	8	0	4.02	0	0	0	0	0	0	0	10	8	4.02
Max Weight ----->		15	15	12	0	6	0	0	0	0	0	0	0	15	12	6
PO Attainment in percentage		66.67	66.67	66.67	0.00	67.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	66.67	66.67	67.00
PO Attainment Grade		2	2	2	0	1.34	0	0	0	0	0	0	0	2	2	1.34

PO Attainment Calculation Indirect

COs	CO Attainment Grade	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
BEC402.1	3	3	3	0	0	0	0	0	0	0	0	0	0	3	0	0
BEC402.2	3	3	3	3	0	2	0	0	0	0	0	0	0	3	3	2
BEC402.3	3	3	3	3	0	2	0	0	0	0	0	0	0	3	3	2
BEC402.4	3	3	3	3	0	2	0	0	0	0	0	0	0	3	3	0
BEC402.5	3	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0
BEC402.6	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weighted Sum --->		15	15	12	0	6	0	0	0	0	0	0	0	15	12	6
Max Weight ----->		15	15	12	0	6	0	0	0	0	0	0	0	15	12	6
PO Attainment in percentage		100.00	100.00	100.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	100.00
PO Attainment Grade		3	3	3	0	2	0	0	0	0	0	0	0	3	3	2

HOD Signature:

D.V.9

Faculty Name & Signature:

NARAYAN

H.O.D.

Dept Of Electronics & Communication
Alva's Institute of Engg. & Techno..
Mijar, MOODBIDRI - 574 225

COURSE OUTCOMES (COs) ASSESSMENT MATRIX

Alva's Institute of Engineering and Technology, Moodbidri

Department of Electronics and Communication Engineering

2023-2024

Academic Year: Principles of Communication Systems/BEC402

Course Name & Course Code: DR.NAPOLEAN

Faculty Name: CO Attainment - Direct

Cos	Formative Assessment	Summative Assessment	Total Attainment Direct	CO Attainment Indirect	CO Attainment
BEC402.1	3	1	2.00	3	2.1
BEC402.2	3	1	2.00	3	2.1
BEC402.3	3	1	2.00	3	2.1
BEC402.4	3	1	2.00	3	2.1
BEC402.5	3	1	2.00	3	2.1
BEC402.6			2.00	3	2.1
Average			2.00	3	2.1

Note:

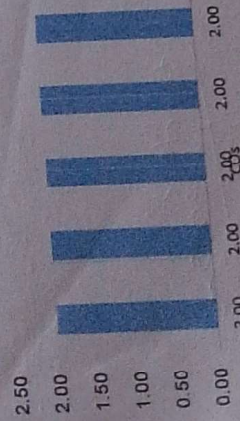
Total Attainment Direct = (Weightage*Formative Assessment)+(Weightage*Summative Assessment) Weightage for Formative Assessment = 50%; Weightage for Summative Assessment = 50%

CO Attainment = (Weightage*Total Attainment Direct)+(Weightage*CO Attainment Indirect) Weightage for Direct = 90%; Weightage for CO Attainment Indirect = 10%

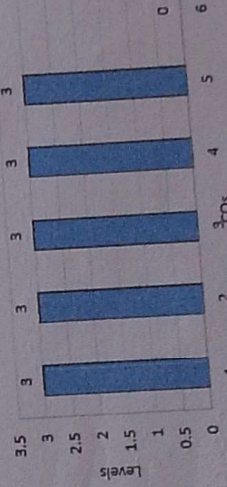
Faculty Name & Signature:

HOD Signature:

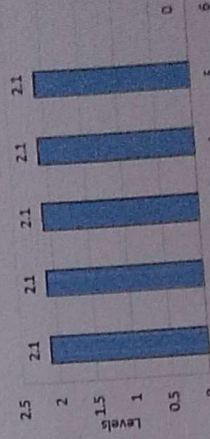
Total Attainment Direct



CO Attainment Indirect



CO Attainment Total



[Dr. NAPOLEAN]

P.V. J

H.O.D.
Dept. Of Electronics & Communication
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225

PO Attainment Chart

PROGRAMME OUTCOME & PROGRAMME SPECIFIC OUTCOME ASSESSMENT MAT

Alva's Institute of Engineering and Technology, Moodbidri

Department of Electronics and Communication Engineering

Department of Electronics and Communication Engineering															
Academic Year: Course Name: Course Code: Faculty Name:		2023-2024													
		Electronic Devices													
		BEC306A													
		DR. NAPOLEAN													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
BEC306A.1	3	3	3										3		
BEC306A.2	3	3	3										3	3	
BEC306A.3	3	3	3										3	3	
BEC306A.4	3	3	3										3	3	
BEC306A.5	3	3	3										3	3	2
BEC306A.6	3	3	3										3	3	2
AVG	3	3	3										PSO 1	PSO 2	PSO 3

Key Word (PO)	Apply Knowledge	Solve Problems	Design/Development of Solution	Conduct Investigations	Use Modern Tools	Engineer and Society	Environment and Sustainability	Professional Ethics	Individual and Team Work	Communicate Effectively	Project Management and Finance	Lifelong Learning	PSO 1	PSO 2	PSO 3
BEC306A Direct (X)	1.4	1.4	1.38	0	0	0	0	0	0	0	0	0	1.4	1.34	1
BEC306A Indirect (Y)	3	3	3	0	0	0	0	0	0	0	0	0	3	3	2
Attainment Level	1.56	1.56	1.55	0	0	0	0	0	0	0	0	0	1.56	1.51	1.1

PO Attainment Calculation Direct

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
BEC306A.1	1.5	1.5	1.5	0	0	0	0	0	0	0	0	0	1.5	0	0
BEC306A.2	1.5	1.5	1.5	0	0	0	0	0	0	0	0	0	1.5	1.5	0
BEC306A.3	1.5	1.5	1.5	0	0	0	0	0	0	0	0	0	1.5	1.5	0
BEC306A.4	1.0	1	1	0	0	0	0	0	0	0	0	0	1.5	0	1
BEC306A.5	1.5	1.5	1.5	0	0	0	0	0	0	0	0	0	1.5	0	0
BEC306A.6	0	0	0	0	0	0	0	0	0	0	0	0	7	4	1
Weighted Sum -->	7	7	5.5	0	0	0	0	0	0	0	0	0	15	9	2
Max Weight -->	15	15	12	0	0	0	0	0	0	0	0	0	46.67	44.44	50.00
PO Attainment in percentage	46.67	46.67	45.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.4	1.34	1
PO Attained Grade	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
	1.4	1.4	1.38	0	0	0	0	0	0	0	0	0	1.4	1.34	1

PO Attainment Calculation Indirect

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
BEC306A.1	3	3	3	0	0	0	0	0	0	0	0	0	3	0	0
BEC306A.2	3	3	3	0	0	0	0	0	0	0	0	0	3	3	0
BEC306A.3	3	3	3	0	0	0	0	0	0	0	0	0	3	3	0
BEC306A.4	3	3	3	0	0	0	0	0	0	0	0	0	3	0	2
BEC306A.5	3	3	3	0	0	0	0	0	0	0	0	0	3	0	0
BEC306A.6	0	0	0	0	0	0	0	0	0	0	0	0	15	9	2
Weighted Sum -->	15	15	12	0	0	0	0	0	0	0	0	0	15	9	2
Max Weight -->	15	15	12	0	0	0	0	0	0	0	0	0	100.00	100.00	100.00
PO Attainment in percentage	100.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	100.00
PO Attained Grade	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
	3	3	3	0	0	0	0	0	0	0	0	0	3	3	2

HOD Signature:

Siddesh

Faculty Name & Signature:

Dr. NAPOLEAN

COURSE OUTCOMES (COs) ASSESSMENT MATRIX						
Alva's Institute of Engineering and Technology, Moodbidri						
Department of Electronics and Communication Engineering						
Academic Year:		2023-2024				
Course Name & Course Code:		Electronic Devices/BEC306A				
Faculty Name:		DR.NAPOLEON				
CO Attainment - Direct						
Cos	Formative Assessment	Summative Assessment	Total Attainment Direct	CO Attainment Indirect	CO Attainment	
BEC306A.1	3	1	2.00	3	2.1	
BEC306A.2	3	1	2.00	3	2.1	
BEC306A.3	3	1	2.00	3	2.1	
BEC306A.4	2	1	1.50	3	1.65	
BEC306A.5	3	1	2.00	3	2.1	
BEC306A.6					0	
Average			1.90	3	1.68	

Attainment Level 1: 50% students rated more than or equal to 80% of maximum
 Attainment Level 2: 60% students rated more than or equal to 80% of maximum
 Attainment Level 3: 70% students rated more than or equal to 80% of maximum

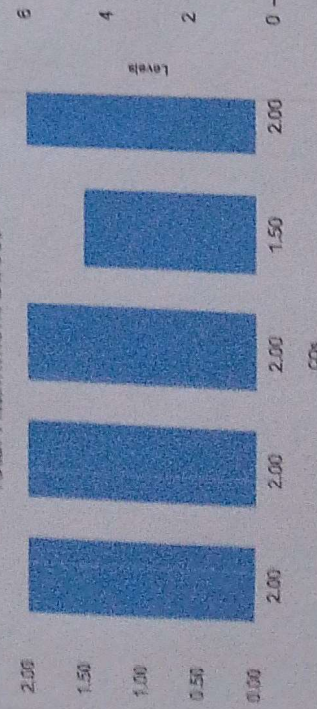
Note:

Total Attainment Direct = (Weightage * Formative Assessment) + (Weightage * Summative Assessment) Weightage for Formative Assessment = 50%; Weightage for Summative Assessment = 50%

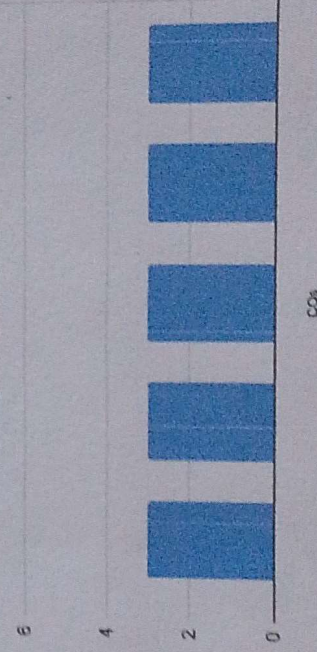
CO Attainment = (Weightage * Total Attainment Direct) + (Weightage * CO Attainment Indirect) Weightage for Total Attainment Direct = 90%; Weightage for CO Attainment Indirect = 10%

Faculty Name & Signature:	HOD Signature:
[Dr. Napoleon]	Siddesh

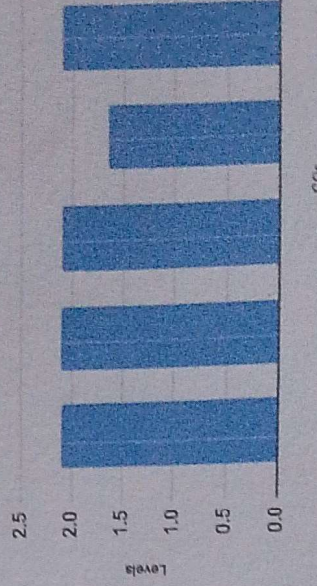
Total Attainment Direct



CO Attainment Indirect



CO Attainment Total



[Dr. Napoleon]

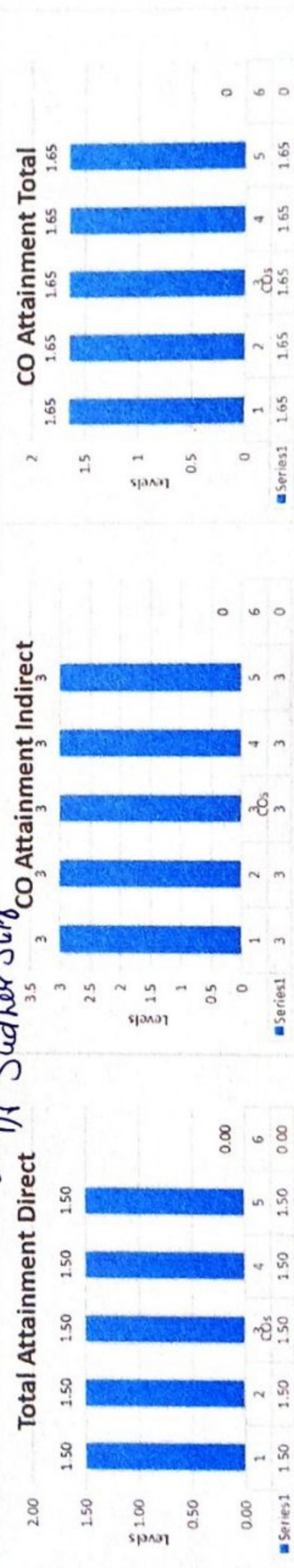
[Dr. Napoleon]

COURSE OUTCOMES (COs) ASSESSMENT MATRIX						
Alva's Institute of Engineering & Technology, Moodbidri						
Department of Information Science & Engineering						
Academic Year:		2023-2024				
Course Name & Course Code		Automata Theory & Compiler Design/21CS51				
Faculty Name:		Dr. Sudheer Shetty				
CO Attainment - Direct						
Cos	Formative Assessment	Summative Assessment	Total Attainment	CO Attainment Indirect	CO Attainment	
21CS51.1	3	0	1.50	3	1.65	
21CS51.2	3	0	1.50	3	1.65	
21CS51.3	3	0	1.50	3	1.65	
21CS51.4	3	0	1.50	3	1.65	
21CS51.5	3	0	1.50	3	1.65	
21CS51.6						
Average			1.50	3	1.65	

Attainment Level 1: 50% students rated more than or equal to 50% of maximum marks
 Attainment Level 2: 60% students rated more than or equal to 50% of maximum marks
 Attainment Level 3: 70% students rated more than or equal to 50% of maximum marks

Note:
Total Attainment Direct = (Weightage*Formative Assessment)+(Weightage*Summative Assessment) Weightage for Formative Assessment = 50%; Weightage for Summative Assessment = 50%
CO Attainment = (Weightage*Total Attainment Direct)+(Weightage*CO Attainment Indirect) Weightage for Total Attainment Direct = 90%; Weightage for CO Attainment Indirect = 10%

Faculty Name & Signature:	HOD Signature:
<i>Sudheer Shetty</i>	<i>Sudheer Shetty</i>



PROGRAMME OUTCOME & PROGRAMME SPECIFIC OUTCOME ASSESSMENT MATRIX

Alva's Institute of Engineering & Technology, Moodbidri

Department of Information Science & Engineering

Academic Year: Course Name: Course Code: Faculty Name:		2023-2024													
		Automata Theory & Compiler Design													
		21CS51													
		Dr. Sudheer Shetty													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
21CS51.1	2	1	1	1								1	1		
21CS51.2	2	2	2	2								1	1		
21CS51.3	2	2	2	1								1	2		
21CS51.4	2	2	2	2								1	1		
21CS51.5	2	2	1	1								1	1		
21CS51.6															
AVG	2	1.8	1.6	1.4								1	1.2		

Key Words (POs)	Apply Knowledge	Solve Problems	Design/Development of Solution	Conduct Investigations	Use Modern Tools	Engineer and Society	Environment and Sustainability	Professional Ethics	Individual and Team Work	Communicate Effectively	Project Management and Finance	Life-long Learning	PSO 1	PSO 2	PSO 3
21CS51 Direct (X)	1	0.9	0.8	0.7								0.5	0.6		
21CS51 Indirect (Y)	2	1.8	1.6	1.4								1	1.2		
Attainment Level	1.1	0.99	0.88	0.77								0.55	0.66		

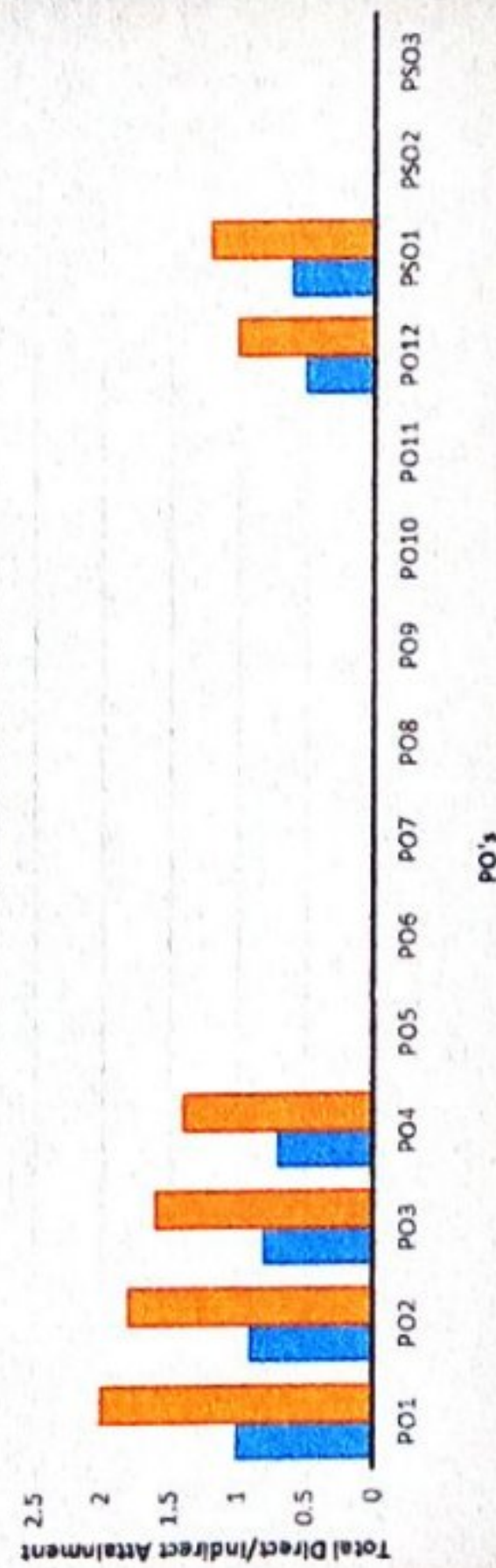
PO Attainment Calculation Direct

COs	CO Attainment Grade	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
21CS51.1	1.50	1	0.5	0.5	0.5	0	0	0	0	0	0	0	0.5	0.5	0	0
21CS51.2	1.5	1	1	1	1	0	0	0	0	0	0	0	0.5	0.5	0	0
21CS51.3	1.5	1	1	1	0.5	0	0	0	0	0	0	0	0.5	1	0	0
21CS51.4	1.5	1	1	1	1	0	0	0	0	0	0	0	0.5	0.5	0	0
21CS51.5	1.5	1	1	0.5	0.5	0	0	0	0	0	0	0	0.5	0.5	0	0
21CS51.6																
Weighted Sum --->		5	4.5	4	3.5	0	0	0	0	0	0	0	2.5	3	0	0
Max Weight ----->		10	9	8	7	0	0	0	0	0	0	0	5	6	0	0
PO Attainment in percentage :->		50.00	50.00	50.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.00	50.00	0.00	0.00
PO Attained Grade		1	0.9	0.8	0.7								0.5	0.6		

PO Attainment Calculation Indirect

COs	CO Attainment Grade	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
21CS51.1	3	2	1	1	1	0	0	0	0	0	0	0	1	1	0	0
21CS51.2	3	2	2	2	2	0	0	0	0	0	0	0	1	1	0	0
21CS51.3	3	2	2	2	1	0	0	0	0	0	0	0	1	2	0	0
21CS51.4	3	2	2	2	2	0	0	0	0	0	0	0	1	1	0	0
21CS51.5	3	2	2	1	1	0	0	0	0	0	0	0	1	1	0	0
21CS51.6																
Weighted Sum --->		10	9	8	7	0	0	0	0	0	0	0	5	6	0	0
Max Weight ----->		10	9	8	7	0	0	0	0	0	0	0	5	6	0	0
PO Attainment in percentage :->		100.00	100.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00
PO Attained Grade		2	1.8	1.6	1.4								1	1.2		

PO Attainment Chart



Faculty Name & Signature:

Dr. Sudhansu Saha

HOD Signature:

Saha

Academic Year:	2023-2024
Course Name:	Automata Theory & Compiler Design
Course Code:	21CS51
Faculty Name:	Dr. Sudheer Shetty

Observations and Action Plan (Direct)

Course	Target	Attainment	Gap	Observation	Action Proposed to bridge the Gap
21CS51	2	1.50	0.50	Due to the introduction of Compiler Design part, target could not be achieved.	Practical exposure is required in the field of Compiler Design. Proposed to put lab experiments to enhance the knowledge on compilers.

Outcomes on Actions for CAYm 1 Observations/Suggestions		
Sl. No.	Action Taken	Change Observed
1	Target achieved. Planned to continue the same teaching methodology.	

Faculty Name & Signature:

Dr. Sudheer Shetty

HOD Signature:

Dr. Sudheer Shetty

 ALVA'S Alva's Institute of Engineering and Technology, Moodbidri Department of Mechanical Engineering	
PROGRAMME OUTCOME & PROGRAMME SPECIFIC OUTCOME ASSESSMENT MATRIX	
Academic Year: 2023-24 Course Name: Energy Engineering Course Code: 18ME81 Faculty Name: NIRAN C.H.	

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
18ME81.1	3	2				2	3					1	2	1	
18ME81.2	3	2				2	3					1	2	1	
18ME81.3	3	2				2	3					1	2	1	
AVG	3	2				2	3					1	2	1	

Key Words POs	Apply Knowledge	Solve Problems	Design/Development of Solution	Conduct Investigations	Use Modern Tools	Engineer and Society	Environment and Sustainability	Professional Ethics	Individual and Team Work	Communicate Effectively	Project Management and Finance	Life-long Learning	PSO 1	PSO 2	PSO 3
18ME81 Direct (X)	3	2				2	3					1	2	1	
18ME81 Indirect (Y)	3	2				2	3					1	2	1	
Attainment Level	3	2				2	3					1	2	1	

PO Attainment Calculation Direct

COs	CO Attainment Grade	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
18ME81.1	3.00	3	2	0	0	0	2	3	0	0	0	0	1	2	1	0
18ME81.2	3	3	2	0	0	0	2	3	0	0	0	0	1	2	1	0
18ME81.3	3	3	2	0	0	0	2	3	0	0	0	0	1	2	1	0
Weighted Sum -->		9	6	0	0	0	6	9	0	0	0	0	3	6	3	0
Max Weight ----->		9	6	0	0	0	6	9	0	0	0	0	3	6	3	0
PO Attainment in Percentage :----->	100.00	100.00	100.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	0.00	100.00	100.00	100.00	0.00
PO Attained Grade	3	2					2	3					1	2	1	

PO Attainment Calculation Indirect

COs	CO Attainment Grade	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
18ME81.1	3	3	2	0	0	0	2	3	0	0	0	0	1	2	1	0
18ME81.2	3	3	2	0	0	0	2	3	0	0	0	0	1	2	1	0
18ME81.3	3	3	2	0	0	0	2	3	0	0	0	0	1	2	1	0
Weighted Sum -->		9	6	0	0	0	6	9	0	0	0	0	3	6	3	0
Max Weight ----->		9	6	0	0	0	6	9	0	0	0	0	3	6	3	0
PO Attainment in percentage :----->	100.00	100.00	100.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	0.00	100.00	100.00	100.00	0.00
PO Attained Grade	3	2					2	3					1	2	1	

Faculty Name & Signature: **KIRAN C.H.**

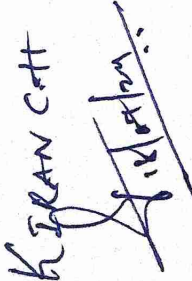
IQAC Chairman & HOD Signature: **H.O.D.**

Dept. Of Mechanical Engineering
Alva's Institute of Engineering and Technology
Moodbidri - 576102

Academic Year:		2023-24	
Course Name:		Energy Engineering	
Course Code:		18MES1	
Faculty Name:		KIRAN C H	

Observations and Action Plan (Direct)			
Course	Target	Attainment	Gap
18MES1	3	3	Nil
Observation		Action Proposed to bridge the Gap	
The target for attainment in the Energy Engineering subject has been achieved successfully. This indicates that the students have met or exceeded the learning outcomes set for this course.		Continue with the current teaching methodologies and resources that have proven effective. Ensure that interactive and practical learning opportunities are maintained or enhanced. Strengthen industry partnerships for practical exposure, and and project-based learning. Organize professional workshops, and support student research and mentorship programs to foster innovation and sustainability.	

Outcomes on Actions for CAYm1 Observations/ Suggestions	
Sl. No.	Action Taken
	Change Observed

Faculty Name & Signature: 

HOD Signature: 
 Dept. Of Mechanical Engineering
 Anna's Institute of Engineering and Technology
 Madurai, MOODUBIDUR - 625 004