

6.2
Semester : 4
Section : A
Course : KINEMATICS OF MACHINES

P e r i o d	Planned			Execution		
	Date	Topic	Source material to be referred	Date	Topic	Source material to be referred
1						
1	2022-05-23	Definitions: Link , types of links	Text 1, Ref 1,	2022-05-23	Definitions: Link, types of links	Text 1, Ref 1,
2	2022-05-24	joint, types of joints kinematic pairs	Text 1, Ref 1,	2022-05-24	joint, types of joints kinematic pairs	Text 1, Ref 1,
3	2022-05-25	Constrained motion, kinematic chain	Text 1, Ref 1,	2022-05-25	Constrained motion, kinematic chain	Text 1, Ref 1,
4	2022-05-26	mechanism and types , degrees of freedom of planar mechanisms	Text 1, Ref 1,	2022-05-26	mechanism and types, degrees of freedom of planar mechanisms	Text 1, Ref 1,
5	2022-05-27	Equivalent mechanisms, Groshoff's criteria and types of four bar mechanisms	Text 1, Ref 1,	2022-05-30	Equivalent mechanisms, Groshoff's criteria and types of four bar mechanisms	Text 1, Ref 1,
6	2022-05-30	, inversions of of four bar chain	Text 1, Ref 1,	2022-05-31	inversions of of four bar chain	Text 1, Ref 1,
7	2022-05-31	slider crank chain, Doubler slider crank chain and its inversions	Text 1, Ref 1,	2022-06-01	slider crank chain, Doubler slider crank chain and its inversions	Text 1, Ref 1,
8	2022-06-01	Grashoff's chain. Mechanisms: Quick return motion mechanisms Drag link mechanism, Whitworth mechanism and Crank and slotted lever Mechanism. Straight line motion mechanisms	Text 1, Ref 1,	2022-06-02	Grashoff's chain. Mechanisms: Quick return motion mechanisms Drag link mechanism, Whitworth mechanism and Crank and slotted lever Mechanism. Straight line motion mechanisms	Text 1, Ref 1,
9	2022-06-02	Peaucellier's mechanism and Robert's mechanism. Intermittent Motion mechanisms: Geneva wheel mechanism, Ratchet and Pawl mechanism	Text 1, Ref 1,	2022-06-06	Peaucellier's mechanism and Robert's mechanism. Intermittent Motion mechanisms: Geneva wheel mechanism, Ratchet and Pawl mechanism	Text 1, Ref 1,
10	2022-06-03	toggle mechanism, pantograph	Text 1, Ref 1,	2022-06-07	toggle mechanism, pantograph	Text 1, Ref 1,
11	2022-06-06	condition for correct steering	Text 1, Ref 1,	2022-06-08	condition for correct steering	Text 1, Ref 1,

12	2022-06-07	Ackerman steering gear mechanism	Text 1, Ref 1,	2022-06-09	Ackerman steering gear mechanism	Text 1, Ref 1,
2						
37	2022-08-22	Velocity and Acceleration Analysis of Mechanisms (Graphical Method): Velocity and acceleration analysis offour bar mechanism	Text 1, Ref 1,	2022-08-16	uniform velocity	Text 1, Ref 1,
38	2022-08-23	Velocity and Acceleration Analysis of Mechanisms (Graphical Method): Velocity and acceleration analysis offour bar mechanism	Text 1, Ref 1,	2022-08-17	cycloidal motion	Text 1, Ref 1,
39	2022-08-24	Velocity and Acceleration Analysis of Mechanisms (Graphical Method): Velocity and acceleration analysis offour bar mechanism	Text 1, Ref 1,	2022-08-22	Cam profilewith offset knife edge follower	Text 1, Ref 1,
40	2022-08-25	slider crank mechanism. Mechanism illustrating Corioli's component of acceleration.Angular velocity and angular acceleration of links	Text 1, Ref 1,	2022-08-23	roller follower	Text 1, Ref 1,
41	2022-08-27	slider crank mechanism. Mechanism illustrating Corioli's component of acceleration.Angular velocity and angular acceleration of links	Text 1, Ref 1,	2022-08-23	flat faced follower	Text 1, Ref 1,
42	2022-08-29	slider crank mechanism. Mechanism illustrating Corioli's component of acceleration.Angular velocity and angular acceleration of links	Text 1, Ref 1,	2022-08-23	Velocity and Acceleration Analysis of Mechanisms (Graphical Method): Velocity and acceleration analysis offour bar mechanism	Text 1, Ref 1,
43	2022-08-30	velocity of rubbing. Velocity Analysis by InstantaneousCenter Method: Definition	Text 1, Ref 1,	2022-08-23	Velocity and Acceleration Analysis of Mechanisms (Graphical Method): Velocity and acceleration analysis offour bar mechanism	Text 1, Ref 1,

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44	2022-08-31	velocity of rubbing. Velocity Analysis by Instantaneous Center Method: Definition	Text 1, Ref 1,	2022-08-24	Velocity and Acceleration Analysis of Mechanisms (Graphical Method): Velocity and acceleration analysis of four bar mechanism	Text 1, Ref 1,
45	2022-09-01	Kennedy's theorem	Text 1, Ref 1,	2022-08-24	slider crank mechanism. Mechanism illustrating Coriolis's component of acceleration. Angular velocity and angular acceleration of links	Text 1, Ref 1,
46	2022-09-03	Kennedy's theorem	Text 1, Ref 1,	2022-08-24	slider crank mechanism. Mechanism illustrating Coriolis's component of acceleration. Angular velocity and angular acceleration of links	Text 1, Ref 1,
47	2022-09-05	Determination of linear and angular velocity using instantaneous center method	Text 1, Ref 1,	2022-08-25	slider crank mechanism. Mechanism illustrating Coriolis's component of acceleration. Angular velocity and angular acceleration of links	Text 1, Ref 1,
48	2022-09-06	Determination of linear and angular velocity using instantaneous center method	Text 1, Ref 1,	2022-08-25	velocity of rubbing. Velocity Analysis by Instantaneous Center Method: Definition	Text 1, Ref 1,
3						
49	2022-09-12	Velocity and acceleration analysis of four bar mechanism	Text 1, Ref 1,	2022-08-25	velocity of rubbing. Velocity Analysis by Instantaneous Center Method: Definition	Text 1, Ref 1,
50	2022-09-13	Velocity and acceleration analysis of four bar mechanism	Text 1, Ref 1,	2022-08-26	Kennedy's theorem	Text 1, Ref 1,
51	2022-09-14	Velocity and acceleration analysis of four bar mechanism	Text 1, Ref 1,	2022-08-26	Kennedy's theorem	Text 1, Ref 1,
52	2022-09-15	Velocity and acceleration analysis of four bar mechanism	Text 1, Ref 1,	2022-08-26	Determination of linear and angular velocity using instantaneous center method	Text 1, Ref 1,
53	2022-09-17	Velocity and acceleration analysis of four bar mechanism	Text 1, Ref 1,	2022-08-26	Determination of linear and angular velocity using instantaneous center method	Text 1, Ref 1,
54	2022-09-19	Velocity and acceleration analysis of four bar mechanism	Text 1, Ref 1,	2022-08-30	Velocity and acceleration analysis of four bar mechanism	Text 1, Ref 1,

55	2022-09-20	slider crank mechanism using complex algebra method. Freudenstein's equation for four bar mechanism and slider crank mechanism. Function Generation for four bar mechanism	Text 1, Ref 1,	2022-08-30	Velocity and acceleration analysis of four bar mechanism	Text 1, Ref 1,
56	2022-09-20	slider crank mechanism using complex algebra method. Freudenstein's equation for four bar mechanism and slider crank mechanism. Function Generation for four bar mechanism	Text 1, Ref 1,	2022-09-01	Velocity and acceleration analysis of four bar mechanism	Text 1, Ref 1,
57	2022-09-20	slider crank mechanism using complex algebra method. Freudenstein's equation for four bar mechanism and slider crank mechanism. Function Generation for four bar mechanism	Text 1, Ref 1,	2022-09-01	Velocity and acceleration analysis of four bar mechanism	Text 1, Ref 1,
58	2022-09-20	slider crank mechanism using complex algebra method. Freudenstein's equation for four bar mechanism and slider crank mechanism. Function Generation for four bar mechanism	Text 1, Ref 1,	2022-09-01	Velocity and acceleration analysis of four bar mechanism	Text 1, Ref 1,
59	2022-09-20	slider crank mechanism using complex algebra method. Freudenstein's equation for four bar mechanism and slider crank mechanism. Function Generation for four bar mechanism	Text 1, Ref 1,	2022-09-01	Velocity and acceleration analysis of four bar mechanism	Text 1, Ref 1,
60	2022-09-20	slider crank mechanism using complex algebra method. Freudenstein's equation for four bar mechanism and slider crank mechanism. Function Generation for four bar mechanism	Text 1, Ref 1,	2022-09-01	slider crank mechanism using complex algebra method. Freudenstein's equation for four bar mechanism and slider crank mechanism. Function Generation for four bar mechanism	Text 1, Ref 1,

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25	2022-07-18	Classification of cams	Text 1, Ref 1,	2022-07-19	torque calculation in epicyclic gear trains	Text 1, Ref 1,
26	2022-07-19	Classification of cams	Text 1, Ref 1,	2022-07-20	torque calculation in epicyclic gear trains	Text 1, Ref 1,
27	2022-07-20	Types of followers	Text 1, Ref 1,	2022-07-23	torque calculation in epicyclic gear trains	Text 1, Ref 1,
28	2022-07-21	Cam nomenclature	Text 1, Ref 1,	2022-07-25	torque calculation in epicyclic gear trains	Text 1, Ref 1,
29	2022-07-23	Follower motions and motion analysis	Text 1, Ref 1,	2022-07-26	torque calculation in epicyclic gear trains	Text 1, Ref 1,
30	2022-07-25	of SHM	Text 1, Ref 1,	2022-07-27	Classification of cams	Text 1, Ref 1,
31	2022-07-26	Motion with uniform acceleration and deceleration	Text 1, Ref 1,	2022-08-03	Classification of cams	Text 1, Ref 1,
32	2022-07-27	uniform velocity	Text 1, Ref 1,	2022-08-08	Types of followers	Text 1, Ref 1,
33	2022-07-28	cycloidal motion	Text 1, Ref 1,	2022-08-10	Cam nomenclature	Text 1, Ref 1,
34	2022-07-30	Cam profilewith offset knife edge follower	Text 1, Ref 1,	2022-08-11	Follower motions and motion analysis	Text 1, Ref 1,
35	2022-08-01	roller follower	Text 1, Ref 1,	2022-08-11	of SHM	Text 1, Ref 1,
36	2022-08-02	flat faced follower	Text 1, Ref 1,	2022-08-13	Motion with uniform acceleration and deceleration	Text 1, Ref 1,
5						
13	2022-06-20	Gear terminology, law of gearing	Text 1, Ref 1,	2022-06-15	Gear terminology, law of gearing	Text 1, Ref 1,
14	2022-06-21	path of contact	Text 1, Ref 1,	2022-06-16	path of contact	Text 1, Ref 1,
15	2022-06-22	arc of contact	Text 1, Ref 1,	2022-06-18	arc of contact	Text 1, Ref 1,
16	2022-06-23	contact ratio of spur gear.Interference in involute gears	Text 1, Ref 1,	2022-06-20	contact ratio of spur gear.Interference in involute gears	Text 1, Ref 1,
17	2022-06-25	methods of avoiding interference	Text 1, Ref 1,	2022-06-21	contact ratio of spur gear.Interference in involute gears	Text 1, Ref 1,
18	2022-06-27	condition and expressions for minimumnumber of teeth to avoid interference	Text 1, Ref 1,	2022-06-23	methods of avoiding interference	Text 1, Ref 1,
19	2022-06-28	Simple gear trains	Text 1, Ref 1,	2022-06-25	methods of avoiding interference	Text 1, Ref 1,
20	2022-06-29	Simple gear trains	Text 1, Ref 1,	2022-06-30	condition and expressions for minimumnumber of teeth to avoid interference	Text 1, Ref 1,

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21	2022-06-30	compound gear trains. Epicyclic gear trains: Algebraic and tabular methodsof finding velocity ratio of epicyclic gear trains	Text 1, Ref 1,	2022-07-04	Simple gear trains	Text 1, Ref 1,
22	2022-07-02	compound gear trains. Epicyclic gear trains: Algebraic and tabular methodsof finding velocity ratio of epicyclic gear trains	Text 1, Ref 1,	2022-07-06	Simple gear trains	Text 1, Ref 1,
23	2022-07-04	torque calculation in epicyclic gear trains	Text 1, Ref 1,	2022-07-12	compound gear trains. Epicyclic gear trains: Algebraic and tabular methodsof finding velocity ratio of epicyclic gear trains	Text 1, Ref 1,
24	2022-07-05	torque calculation in epicyclic gear trains	Text 1, Ref 1,	2022-07-18	compound gear trains. Epicyclic gear trains: Algebraic and tabular methodsof finding velocity ratio of epicyclic gear trains	Text 1, Ref 1,
61	-	-		2022-09-02	slider crank mechanism using complex algebra method. Freudenstein's equation forfour bar mechanism and slider crank mechanism. Function Generation for four bar mechanism	Text 1, Ref 1,
62	-	-		2022-09-02	slider crank mechanism using complex algebra method. Freudenstein's equation forfour bar mechanism and slider crank mechanism. Function Generation for four bar mechanism	Text 1, Ref 1,
63	-	-		2022-09-03	slider crank mechanism using complex algebra method. Freudenstein's equation forfour bar mechanism and slider crank mechanism. Function Generation for four bar mechanism	Text 1, Ref 1,

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64	-	-		2022-09-03	slider crank mechanism using complex algebra method. Freudenstein's equation for four bar mechanism and slider crank mechanism. Function Generation for four bar mechanism	Text 1, Ref 1,
65	-	-		2022-09-03	slider crank mechanism using complex algebra method. Freudenstein's equation for four bar mechanism and slider crank mechanism. Function Generation for four bar mechanism	Text 1, Ref 1,

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6 . Course Information

6 . 2 . 1 Compliance Report

Semester : 4

Section : A

Course : KINEMATICS OF MACHINES

Module No.	# of Classes Planned(till date)	Planned Effort(till date)	# of Classes Executed(till date)	Actual Efforts(till date)	% Coverage
1	12	10hrs 0min	12	10hrs 0min	100.0
2	12	10hrs 0min	12	10hrs 0min	100.0
3	12	10hrs 0min	12	10hrs 0min	100.0
4	12	10hrs 0min	12	10hrs 0min	100.0
5	17	14hrs 10min	17	14hrs 10min	100.0

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6 . Course Information

6 . 2 . 2 CO PO Mapping

Slight (Low) = 1 ,

Moderate (Medium) = 2 ,

Substantial (High) = 3 .

CO/ PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3	2									
CO 2	3	3	2									
CO 3	3	3	2									
CO 4	3	3	2									
CO 5	3	3	2									
CO 6	3	3	2									

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6 . Course

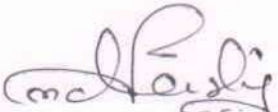
6 . 2 . 3 CO-PSO Mapping

Slight (Low) = 1 ,

Moderate (Medium) = 2 ,

Substantial (High) = 3 .

CO/PSO	PSO 1	PSO 2	PSO 3
CO 1	3	3	2
CO 2	3	3	2
CO 3	3	3	2
CO 4	3	3	2
CO 5	3	3	2
CO 6	3	3	2


(Imran Mokalvi)
Course Coordinator

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for


HOD
(Dept. of Mechanical Engineering)
Bearys Institute of Technology
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MANGALORE - 574 153

Lesson Plan and Execution

Semester : 6 **Section :** A **Course :** DESIGN OF STEEL STRUCTURAL ELEMENTS

Period	Plan/Execution	Date	Topic	Source material to be referred	Course Outcome	Bloom's Level	Execution Methods	Learning Validation Method
Module 1								
1	P	4 Apr 2022	Advantages and Disadvantages of Steel Structures, Limit state method Limit State of Strength				Lecture	
1	E	4 Apr 2022	Advantages and Disadvantages of Steel Structures, Limit state method Limit State of Strength	Text 1	CO 1	Remember	Lecture	
2	P	5 Apr 2022	Structural Stability, Serviceability Limit states				Lecture	
2	E	5 Apr 2022	Structural Stability, Serviceability Limit states, Limit state method Limit State of Strength, Advantages and Disadvantages of Steel Structures	Text 1	CO 1	Remember	Lecture	
3	P	7 Apr 2022	Failure Criteria of steel, Design Consideration				Lecture	
3	E	7 Apr 2022	Failure Criteria of steel, Design Consideration	Text 1	CO 1	Understand	Lecture	
4	P	8 Apr 2022	Loading and load combinations				Lecture	
4	E	8 Apr 2022	Loading and load combinations	Text 1	CO 1	Apply	Lecture	
5	P	9 Apr 2022	IS code provisions				Lecture	
5	E	11 Apr 2022	IS code provisions	Text 1	CO 1	Apply	Lecture	
6	P	11 Apr 2022	Specification and Section classification				Lecture	
6	E	11 Apr 2022	Specification and Section classification	Text 1	CO 1	Apply	Lecture	
7	P	12 Apr 2022	Introduction, Plastic theory				Lecture	
7	E	11 Apr 2022	Introduction, Plastic theory	Text 1	CO 1	Understand	Lecture	
8	P	14 Apr 2022	Plastic Hinge Concept, Plastic collapse load				Lecture	
8	E	12 Apr 2022	Plastic Hinge Concept, Plastic collapse load	Text 1	CO 1	Apply	Lecture	
9	P	15 Apr 2022	load factor, Shape factor				Lecture	
9	E	14 Apr 2022	load factor, Shape factor	Text 1	CO 1	Apply	Lecture	
10	P	16 Apr 2022	Theorem of plastic collapse				Lecture	
10	E	18 Apr 2022	Theorem of plastic collapse	Text 1	CO 1	Apply	Lecture	

Period	Plan/Execution	Date	Topic	Source material to be referred	Course Outcome	Bloom's Level	Execution Methods	Learning Validation Method
11	P	18 Apr 2022	Methods of Plastic analysis				Lecture	
11	E	19 Apr 2022	Methods of Plastic analysis	Text 1	CO 1	Apply	Lecture	
12	P	19 Apr 2022	Plastic analysis of Continuous Beams				Lecture	
12	E	19 Apr 2022	Plastic analysis of Continuous Beams	Text 1	CO 1	Apply	Lecture	
Module 2								
13	P	25 Apr 2022	Introduction				Lecture	
13	E	21 Apr 2022	Introduction	Text 1	CO 2	Understand	Lecture	
14	P	26 Apr 2022	Introduction				Lecture	
14	E	22 Apr 2022	Introduction, Types of Bolts, Behavior of bolted joints	Text 2	CO 2	Understand	Lecture	
15	P	28 Apr 2022	Types of Bolts				Lecture	
15	E	23 Apr 2022	Types of Bolts, Design of High Strength friction Grip (HSFG) bolts	Text 1	CO 2	Understand	Lecture	
16	P	29 Apr 2022	Types of Bolts				Lecture	
16	E	23 Apr 2022	Types of Bolts	Text 2	CO 2	Understand	Lecture	
17	P	30 Apr 2022	Behavior of bolted joints				Lecture	
17	E	27 Apr 2022	Behavior of bolted joints	Text 1	CO 1	Understand	Lecture	
18	P	2 May 2022	Design of High Strength friction Grip (HSFG) bolts				Lecture	
18	E	19 May 2022	Design of High Strength friction Grip (HSFG) bolts, Design of Simple bolted Connections (Lap and Butt joints) and bracket connections	Text 1	CO 2	Apply	Lecture	
19	P	3 May 2022	Design of Simple bolted Connections (Lap and Butt joints) and bracket connections				Lecture	
19	E	20 May 2022	Design of Simple bolted Connections (Lap and Butt joints) and bracket connections	Text 1	CO 2	Apply	Lecture	
20	P	5 May 2022	Introduction				Lecture	
20	E	23 May 2022	Introduction, Types and properties of welds, Effective areas of welds	Text 1	CO 2	Understand	Lecture	
21	P	6 May 2022	Types and properties of welds				Lecture	
21	E	24 May 2022	Types and properties of welds, Weld Defects	Text 1	CO 2	Apply	Lecture	
22	P	7 May 2022	Effective areas of welds				Lecture	
22	E	24 May 2022	Effective areas of welds, Simple welded joints for truss member and bracket connections	Text 2	CO 2	Apply	Lecture	
23	P	10 May 2022	Weld Defects				Lecture	

Period	Plan/Execution	Date	Topic	Source material to be referred	Course Outcome	Bloom's Level	Execution Methods	Learning Validation Method
23	E	26 May 2022	Weld Defects, Advantages and Disadvantages of Bolted and Welded Connections	Text 1	CO 2	Apply	Lecture	
24	P	12 May 2022	Simple welded joints for truss member and bracket connections				Lecture	
24	E	27 May 2022	Simple welded joints for truss member and bracket connections, Advantages and Disadvantages of Bolted and Welded Connections	Text 2	CO 2	Apply	Lecture	
25	P	13 May 2022	Advantages and Disadvantages of Bolted and Welded Connections				Lecture	
25	E	28 May 2022	Advantages and Disadvantages of Bolted and Welded Connections, Simple welded joints for truss member and bracket connections	Text 1	CO 2	Understand	Lecture	
Module 3								
26	P	20 May 2022	Introduction				Lecture	
26	E	30 May 2022	Introduction	Text 2, Text 1	CO 3	Understand	Lecture	
27	P	21 May 2022	Introduction				Lecture	
27	E	31 May 2022	Introduction, Failure modes, Behavior of compression members, Sections used for compression members, Effective length of compression members	Text 1	CO 3	Understand	Lecture	
28	P	23 May 2022	Failure modes				Lecture	
28	E	2 Jun 2022	Failure modes, Design of compression members and built up Compression members	Text 1	CO 3	Analyze	Lecture	
29	P	24 May 2022	Failure modes				Lecture	
29	E	3 Jun 2022	Failure modes, Design of Laced and Battened Systems	Text 1	CO 3	Apply	Lecture	
30	P	26 May 2022	Behavior of compression members				Lecture	
30	E	9 Jun 2022	Behavior of compression members	Text 2	CO 3	Apply	Lecture	
31	P	27 May 2022	Behavior of compression members				Lecture	

Period	Plan/Execution	Date	Topic	Source material to be referred	Course Outcome	Bloom's Level	Execution Methods	Learning Validation Method
31	E	10 Jun 2022	Behavior of compression members, Design of compression members and built up Compression members	Text 1	CO 3	Apply	Lecture	
32	P	28 May 2022	Sections used for compression members				Lecture	
32	E	11 Jun 2022	Sections used for compression members	Text 1	CO 3	Apply	Lecture	
33	P	30 May 2022	Sections used for compression members				Lecture	
33	E	13 Jun 2022	Sections used for compression members	Text 2	CO 3	Apply	Lecture	
34	P	31 May 2022	Effective length of compression members				Lecture	
34	E	15 Jun 2022	Effective length of compression members	Text 1	CO 3	Apply	Lecture	
35	P	2 Jun 2022	Effective length of compression members				Lecture	
35	E	16 Jun 2022	Effective length of compression members, Design of compression members and built up Compression members	Text 1	CO 3	Apply	Lecture	
36	P	3 Jun 2022	Design of compression members and built up Compression members				Lecture	
36	E	17 Jun 2022	Design of compression members and built up Compression members	Text 1	CO 3	Apply	Lecture	
37	P	4 Jun 2022	Design of Laced and Battered Systems				Lecture	
37	E	20 Jun 2022	Design of Laced and Battered Systems	Text 1	CO 3	Apply	Lecture	
Module 4								
38	P	7 Jun 2022	Introduction, Types of Tension members				Lecture	
38	E	21 Jun 2022	Introduction, Types of Tension members	Text 1	CO 4	Understand	Lecture	
39	P	9 Jun 2022	Slenderness ratio, Modes of Failure				Lecture	
39	E	24 Jun 2022	Slenderness ratio, Modes of Failure, Factors affecting the strength of tension members	Text 1	CO 4	Apply	Lecture	
40	P	10 Jun 2022	Factors affecting the strength of tension members				Lecture	
40	E	23 Jun 2022	Factors affecting the strength of tension members	Text 1	CO 4	Understand	Lecture	
41	P	13 Jun 2022	Design of Tension members and Lug angles				Lecture	
41	E	24 Jun 2022	Design of Tension members and Lug angles	Text 1	CO 4	Apply	Lecture	

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Period	Plan/Execution	Date	Topic	Source material to be referred	Course Outcome	Bloom's Level	Execution Methods	Learning Validation Method
42	P	14 Jun 2022	Splices				Lecture	
42	E	25 Jun 2022	Splices	Text 1	CO 4	Understand	Lecture	
43	P	16 Jun 2022	Gussets				Lecture	
43	E	25 Jun 2022	Gussets	Text 1	CO 4	Apply	Lecture	
44	P	17 Jun 2022	Design of Simple Slab Base and Gusseted Base				Lecture	
44	E	27 Jun 2022	Design of Simple Slab Base and Gusseted Base	Text 1	CO 4	Apply	Lecture	
45	P	18 Jun 2022	Design of Simple Slab Base and Gusseted Base				Lecture	
45	E	28 Jun 2022	Design of Simple Slab Base and Gusseted Base	Text 1	CO 4	Apply	Lecture	
46	P	20 Jun 2022	Design of Simple Slab Base and Gusseted Base				Lecture	
46	E	28 Jun 2022	Design of Simple Slab Base and Gusseted Base	Text 1	CO 4	Analyze	Lecture	
47	P	21 Jun 2022	Design of Simple Slab Base and Gusseted Base				Lecture	
47	E	1 Jul 2022	Design of Simple Slab Base and Gusseted Base	Text 1	CO 4	Analyze	Lecture	
48	P	23 Jun 2022	Design of Simple Slab Base and Gusseted Base				Lecture	
48	E	4 Jul 2022	Design of Simple Slab Base and Gusseted Base	Text 1	CO 4	Apply	Lecture	
49	P	24 Jun 2022	Design of Simple Slab Base and Gusseted Base				Lecture	
49	E	5 Jul 2022	Design of Simple Slab Base and Gusseted Base	Text 1	CO 4	Apply	Lecture	
Module 5								
50	P	28 Jun 2022	Introduction				Lecture	
50	E	12 Jul 2022	Introduction, Beam types, Lateral Stability of beams	Text 1	CO 5	Understand	Lecture	
51	P	30 Jun 2022	Introduction				Lecture	
51	E	12 Jul 2022	Behavior of Beams in Bending, factors affecting lateral stability	Text 1	CO 5	Understand	Lecture	
52	P	1 Jul 2022	Beam types				Lecture	
52	E	13 Jul 2022	Beam types	Text 2	CO 5	Understand	Lecture	
53	P	2 Jul 2022	Beam types				Lecture	
53	E	14 Jul 2022	Beam types, Design strength of laterally supported beams in Bending	Text 2	CO 5	Apply	Lecture	
54	P	4 Jul 2022	Lateral Stability of beams				Lecture	
54	E	15 Jul 2022	Lateral Stability of beams	Text 1	CO 5	Apply	Lecture	
55	P	5 Jul 2022	Lateral Stability of beams				Lecture	
55	E	18 Jul 2022	Lateral Stability of beams	Text 1	CO 5	Apply	Lecture	
56	P	7 Jul 2022	factors affecting lateral stability				Lecture	
56	E	18 Jul 2022	factors affecting lateral stability	Text 1	CO 5	Understand	Lecture	

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Period	Plan/Execution	Date	Topic	Source material to be referred	Course Outcome	Bloom's Level	Execution Methods	Learning Validation Method
57	P	8 Jul 2022	Behavior of Beams in Bending				Lecture	
57	E	19 Jul 2022	Behavior of Beams in Bending, Design of Laterally unsupported Beams [No Numerical Problems]	Text 1	CO 5	Apply	Lecture	
58	P	9 Jul 2022	Design strength of laterally supported beams in Bending				Lecture	
58	E	20 Jul 2022	Design strength of laterally supported beams in Bending	Text 1	CO 5	Analyze	Lecture	
59	P	11 Jul 2022	Design of Laterally unsupported Beams [No Numerical Problems]				Lecture	
59	E	21 Jul 2022	Design of Laterally unsupported Beams [No Numerical Problems]	Text 1	CO 5	Analyze	Lecture	
60	P	12 Jul 2022	Shear Strength of Steel Beams Beam to Beam Connections				Lecture	
60	E	22 Jul 2022	Shear Strength of Steel Beams Beam to Beam Connections, Beam to Column Connection and Column Splices	Text 1	CO 5	Apply	Lecture	
61	P	14 Jul 2022	Beam to Column Connection and Column Splices				Lecture	
61	E	23 Jul 2022	Beam to Column Connection and Column Splices	Text 2	CO 5	Analyze	Lecture	

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Compliance Report

Semester : 6

Section : A

Course : DESIGN OF STEEL STRUCTURAL
ELEMENTS

Module No.	# of Classes Planned(till date)	Planned Effort(till date)	# of Classes Executed(till date)	Actual Efforts(till date)	% Coverage
1	12	9hrs 0min	12	9hrs 0min	100.0
2	13	9hrs 45min	13	9hrs 45min	100.0
3	12	9hrs 0min	12	9hrs 0min	100.0
4	12	9hrs 0min	12	9hrs 0min	100.0
5	12	9hrs 0min	12	9hrs 0min	100.0

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6. Course Information

6.2.2 CO PO Mapping

Slight (Low) = 1 ,

Moderate (Medium) = 2 ,

Substantial (High) = 3 .

CO/ PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	2	1				1					
CO 2	3	3	2	1			1					
CO 3	3	3	2	1			1					
CO 4	3	3	2	1			1					
CO 5	3	3	2	1			1					



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HOD
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MANGALORE - 574 153

Semester : 3

Section : A

Course : SOFTWARE ENGINEERING

Period	Plan/Execution	Date	Topic	Source material to be referred	Course Outcome	Bloom's Level	Execution Methods	Remarks
Module 1								
1	P	18 Oct 2021	Software Crisis, Need for Software Engineering				Lecture	
1	E	18 Oct 2021	Software Crisis, Need for Software Engineering		CO 1	Remember	Lecture	
2	P	20 Oct 2021	Professional Software Development				Lecture	
2	E	20 Oct 2021	Professional Software Development		CO 1	Remember	Lecture	
3	P	23 Oct 2021	Software Engineering Ethics				Lecture	
3	E	23 Oct 2021	Software Engineering Ethics		CO 1	Remember	Lecture	
4	P	25 Oct 2021	Case Studies				Lecture	
4	E	25 Oct 2021	Case Studies		CO 1	Remember	Lecture	
5	P	26 Oct 2021	Models- Waterfall Model (Sec 2.1.1)				Lecture	
5	E	26 Oct 2021	Models- Waterfall Model (Sec 2.1.1)		CO 1	Remember	Lecture	
6	P	27 Oct 2021	Incremental Model (Sec 2.1.2)				Lecture	
6	E	27 Oct 2021	Incremental Model (Sec 2.1.2)		CO 1	Remember	Lecture	
7	P	30 Oct 2021	Spiral Model (Sec 2.1.3)				Lecture	
7	E	30 Oct 2021	Spiral Model (Sec 2.1.3)		CO 1	Remember	Lecture	
8	P	2 Nov 2021	Process activities				Lecture	
8	E	2 Nov 2021	Process activities		CO 1	Remember	Lecture	
9	P	6 Nov 2021	Requirements Engineering Processes (Chap 4), Requirements Elicitation and Analysis (Sec 4.5)				Lecture	
9	E	6 Nov 2021	Requirements Engineering Processes (Chap 4), Requirements Elicitation and Analysis (Sec 4.5)		CO 1	Remember	Lecture	
10	P	8 Nov 2021	Functional and non-functional requirements (Sec 4.1), The software Requirements Document (Sec 4.2)				Lecture	
10	E	8 Nov 2021	Functional and non-functional requirements (Sec 4.1), The software Requirements Document (Sec 4.2)		CO 1	Remember	Lecture	

Period	Plan/Execution	Date	Topic	Source material to be referred	Course Outcome	Bloom's Level	Execution Methods	Remarks
11	P	9 Nov 2021	Requirements Specification (Sec 4.3), Requirements validation (Sec 4.6)				Lecture	
11	E	9 Nov 2021	Requirements Specification (Sec 4.3), Requirements validation (Sec 4.6)		CO 1	Remember	Lecture	
12	P	10 Nov 2021	Requirements Management (Sec 4.7)				Lecture	
12	E	10 Nov 2021	Requirements Management (Sec 4.7)		CO 1	Remember	Lecture	
Module 2								
13	P	22 Nov 2021	What is Object orientation?, What is OO development?				Lecture	
13	E	22 Nov 2021	What is Object orientation?, What is OO development?		CO 2	Remember	Lecture	
14	P	23 Nov 2021	OO Themes, Evidence for usefulness of OO development				Lecture	
14	E	23 Nov 2021	OO Themes, Evidence for usefulness of OO development		CO 2	Remember	Lecture	
15	P	24 Nov 2021	OO modelling history, Modelling as Design technique- Modelling				Lecture	
15	E	24 Nov 2021	OO modelling history, Modelling as Design technique- Modelling		CO 2	Remember	Lecture	
16	P	27 Nov 2021	abstraction, The Three models				Lecture	
16	E	29 Nov 2021	abstraction, The Three models		CO 2	Remember	Lecture	
17	P	29 Nov 2021	Introduction, Modelling Concepts and Class Modelling- What is Object orientation?				Lecture	
17	E	29 Nov 2021	Introduction, Modelling Concepts and Class Modelling- What is Object orientation?		CO 2	Remember	Lecture	
18	P	30 Nov 2021	What is OO development?, OO Themes				Lecture	
18	E	30 Nov 2021	What is OO development?, OO Themes		CO 2	Remember	Lecture	
19	P	1 Dec 2021	Evidence for usefulness of OO development, OO modelling history				Lecture	
19	E	1 Dec 2021	Evidence for usefulness of OO development, OO modelling history		CO 2	Remember	Lecture	
20	P	4 Dec 2021	Modelling as Design technique- Modelling, abstraction				Lecture	

Period	Plan/Execution	Date	Topic	Source material to be referred	Course Outcome	Bloom's Level	Execution Methods	Remarks
20	E	4 Dec 2021	Modelling as Design technique- Modelling, abstraction		CO 2	Remember	Lecture	
21	P	6 Dec 2021	The Three models, Class Modelling- Object and Class Concept				Lecture	
21	E	6 Dec 2021	The Three models, Class Modelling- Object and Class Concept		CO 2	Remember	Lecture	
22	P	7 Dec 2021	Link and associations concepts, Generalization and Inheritance				Lecture	
22	E	7 Dec 2021	Link and associations concepts, Generalization and Inheritance		CO 2	Remember	Lecture	
23	P	8 Dec 2021	A sample class model				Lecture	
23	E	8 Dec 2021	A sample class model		CO 2	Remember	Lecture	
24	P	11 Dec 2021	Navigation of class models				Lecture	
24	E	11 Dec 2021	Navigation of class models		CO 2	Remember	Lecture	
Module 3								
25	P	13 Dec 2021	Context models (Sec 5.1)				Lecture	
25	E	13 Dec 2021	Context models (Sec 5.1)		CO 3	Remember	Lecture	
26	P	14 Dec 2021	Context models (Sec 5.1)				Lecture	
26	E	14 Dec 2021	Context models (Sec 5.1)		CO 3	Remember	Lecture	
27	P	15 Dec 2021	Interaction models (Sec 5.2)				Lecture	
27	E	15 Dec 2021	Interaction models (Sec 5.2)		CO 3	Remember	Lecture	
28	P	18 Dec 2021	Structural models (Sec 5.3)				Lecture	
28	E	18 Dec 2021	Structural models(Sec 5.3)		CO 3	Remember	Lecture	
29	P	20 Dec 2021	Behavioral models (Sec 5.4)				Lecture	
29	E	20 Dec 2021	Behavioral models (Sec 5.4)		CO 3	Remember	Lecture	
30	P	21 Dec 2021	Model-driven engineering (Sec 5.5)				Lecture	
30	E	21 Dec 2021	Model-driven engineering (Sec 5.5)		CO 3	Remember	Lecture	
31	P	22 Dec 2021	Design and Implementation- Introduction to RUP (Sec 2.4)				Lecture	
31	E	22 Dec 2021	Design and Implementation- Introduction to RUP (Sec 2.4)		CO 3	Understand	Lecture	
32	P	25 Dec 2021	Design Principles (Chap 7)				Lecture	

Period	Plan/Execution	Date	Topic	Source material to be referred	Course Outcome	Bloom's Level	Execution Methods	Remarks
32	E	27 Dec 2021	Design Principles (Chap 7)		CO 3	Understand	Lecture	
33	P	27 Dec 2021	Object-oriented design using the UML (Sec 7.1)				Lecture	
33	E	27 Dec 2021	Object-oriented design using the UML (Sec 7.1)		CO 3	Understand	Lecture	
34	P	28 Dec 2021	Design patterns (Sec 7.2)				Lecture	
34	E	28 Dec 2021	Design patterns (Sec 7.2)		CO 3	Understand	Lecture	
35	P	29 Dec 2021	Implementation issues (Sec 7.3)				Lecture	
35	E	29 Dec 2021	Implementation issues (Sec 7.3)		CO 3	Understand	Lecture	
36	P	29 Dec 2021	Open source development (Sec 7.4)				Lecture	
36	E	29 Dec 2021	Open source development (Sec 7.4)		CO 3	Understand	Lecture	
Module 4								
37	P	3 Jan 2022	Software Testing-Development testing (Sec 8.1)				Lecture	
37	E	3 Jan 2022	Software Testing-Development testing (Sec 8.1)		CO 3	Understand	Lecture	
38	P	4 Jan 2022	Software Testing-Development testing (Sec 8.1)				Lecture	
38	E	4 Jan 2022	Software Testing-Development testing (Sec 8.1)		CO 4	Understand	Lecture	
39	P	5 Jan 2022	Test-driven development (Sec 8.2)				Lecture	
39	E	5 Jan 2022	Test-driven development (Sec 8.2)		CO 4	Understand	Lecture	
40	P	8 Jan 2022	Release testing (Sec 8.3)				Lecture	
40	E	8 Jan 2022	Release testing (Sec 8.3)		CO 4	Understand	Lecture	
41	P	10 Jan 2022	User testing (Sec 8.4)				Lecture	
41	E	10 Jan 2022	User testing (Sec 8.4)		CO 4	Understand	Lecture	
42	P	11 Jan 2022	Test Automation (Page no 212).				Lecture	
42	E	11 Jan 2022	Test Automation (Page no 212).		CO 4	Understand	Lecture	
43	P	12 Jan 2022	Software Evolution-Evolution processes (Sec 9.1)				Lecture	
43	E	12 Jan 2022	Software Evolution-Evolution processes (Sec 9.1)		CO 4	Understand	Lecture	
44	P	15 Jan 2022	Software Evolution-Evolution processes (Sec 9.1)				Lecture	
44	E	15 Jan 2022	Software Evolution-Evolution processes (Sec 9.1)		CO 5	Understand	Lecture	

Period	Plan/Execution	Date	Topic	Source material to be referred	Course Outcome	Bloom's Level	Execution Methods	Remarks
45	P	17 Jan 2022	Program evolution dynamics (Sec 9.2)				Lecture	
45	E	17 Jan 2022	Program evolution dynamics (Sec 9.2)		CO 4	Understand	Lecture	
46	P	18 Jan 2022	Program evolution dynamics (Sec 9.2)				Lecture	
46	E	18 Jan 2022	Program evolution dynamics (Sec 9.2)		CO 4	Understand	Lecture	
47	P	19 Jan 2022	Software maintenance (Sec 9.3)				Lecture	
47	E	19 Jan 2022	Software maintenance (Sec 9.3)		CO 4	Understand	Lecture	
48	P	22 Jan 2022	Legacy system management (Sec 9.4).				Lecture	
48	E	22 Jan 2022	Legacy system management (Sec 9.4).		CO 4	Understand	Lecture	
Module 5								
49	P	24 Jan 2022	Project Planning- Software pricing (Sec 23.1)				Lecture	
49	E	24 Jan 2022	Project Planning- Software pricing (Sec 23.1)		CO 5	Understand	Lecture	
50	P	25 Jan 2022	Project Planning- Software pricing (Sec 23.1)				Lecture	
50	E	25 Jan 2022	Project Planning- Software pricing (Sec 23.1)		CO 5	Understand	Lecture	
51	P	26 Jan 2022	Plan-driven development (Sec 23.2)				Lecture	
51	E	29 Jan 2022	Plan-driven development (Sec 23.2)		CO 5	Understand	Lecture	
52	P	29 Jan 2022	Plan-driven development (Sec 23.2)				Lecture	
52	E	29 Jan 2022	Plan-driven development (Sec 23.2)		CO 5	Understand	Lecture	
53	P	31 Jan 2022	Project scheduling (Sec 23.3)- Estimation techniques (Sec 23.5)				Lecture	
53	E	31 Jan 2022	Project scheduling (Sec 23.3)- Estimation techniques (Sec 23.5)		CO 5	Apply	Lecture	
54	P	1 Feb 2022	Project scheduling (Sec 23.3)- Estimation techniques (Sec 23.5)				Lecture	
54	E	1 Feb 2022	Project scheduling (Sec 23.3)- Estimation techniques (Sec 23.5)		CO 5	Apply	Lecture	
55	P	2 Feb 2022	Quality management- Software quality (Sec 24.1)				Lecture	
55	E	2 Feb 2022	Quality management- Software quality (Sec 24.1)		CO 5	Apply	Lecture	
56	P	5 Feb 2022	Quality management- Software quality (Sec 24.1)				Lecture	

Period	Plan/Execution	Date	Topic	Source material to be referred	Course Outcome	Bloom's Level	Execution Methods	Remarks
56	E	5 Feb 2022	Quality management-Software quality (Sec 24.1)		CO 5	Apply	Lecture	
57	P	7 Feb 2022	Reviews and inspections (Sec 24.3)				Lecture	
57	E	7 Feb 2022	Reviews and inspections (Sec 24.3)		CO 5	Apply	Lecture	
58	P	8 Feb 2022	Reviews and inspections (Sec 24.3)				Lecture	
58	E	8 Feb 2022	Reviews and inspections (Sec 24.3)		CO 5	Apply	Lecture	
59	P	9 Feb 2022	Software measurement and metrics (Sec 24.4)				Lecture	
59	E	9 Feb 2022	Software measurement and metrics (Sec 24.4)		CO 5	Apply	Lecture	
60	P	12 Feb 2022	Software standards (Sec 24.2)				Lecture	
60	E	12 Feb 2022	Software standards (Sec 24.2)		CO 5	Apply	Lecture	

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Bearys
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MANGALORE

BEARYS INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi, Affiliated to Visvesvaraya Technological University, Belagavi)

Near Mangalore University, Lands End, Innoli
Mangaluru, Karnataka-574153

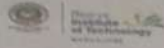
CO No.	Programme Outcomes (POs)												Programme Specific Outcome (PSOs)		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	1	1										1	1		
CO2	2	1	2									1	2		
CO3	1	1										1	1		
CO4	1	1									1	1	1		
CO5	1	1										1	1		

CO-PO-PSO MAPPING

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Head of the Department
Computer Science & Engineering
Bearys Institute of Technology
Lands End, Innoli, Mangalore - 574 153



Quantity Surveying & Contract Management

Staff Name: Prof Vijay H
Course Name: Quantity Surveying & Contract
NBA Code : C401

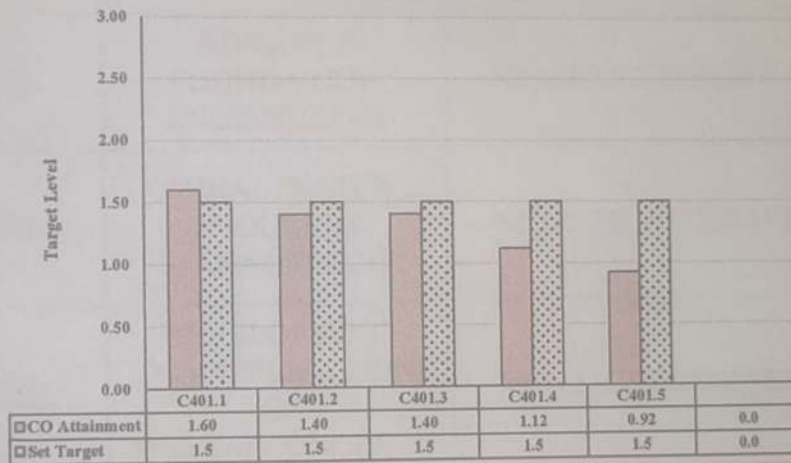
Class: VII

Class Strength: 33

Final CO Attainment

COs	Assigned Target Level	Internal Direct Attainment	SEE Direct Attainment	Overall Direct Attainment	Indirect Attainment	Final Attainment	Remarks
C401.1	1.5	0.6	3.0	1.5	2.0	1.60	
C401.2	1.5	0.6		1.5	1.0	1.40	
C401.3	1.5	0.6		1.5	1.0	1.40	
C401.4	1.5	0.0		0.9	2.0	1.12	
C401.5	1.5	0.0		0.9	1.0	0.92	

CO Attainment Chart



Remarks by Faculty Member

Vijay H

Prof Vijay H

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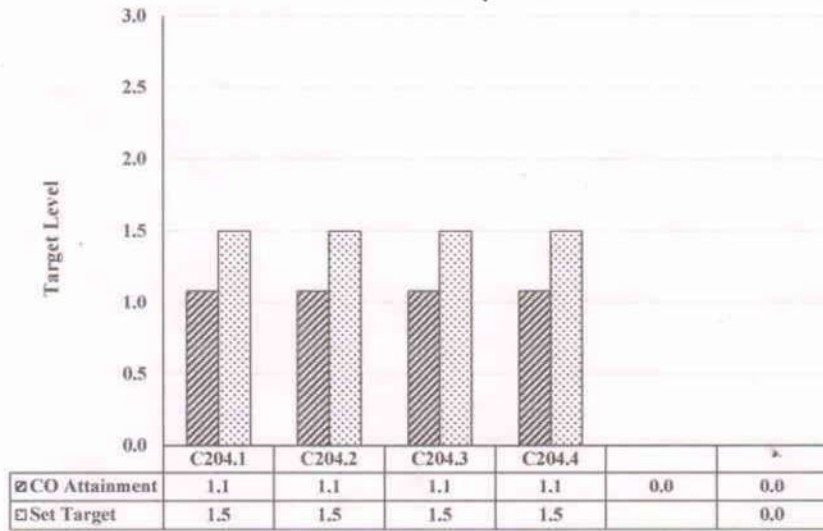


Department of Computer Science & Engineering

Staff Name: Akshatha S.A
Course Name: COMPUTER ORGANIZATION
NBA Code : C204 Class: III Class Strength: 45

Final CO Attainment							
COs	Assigned Target Level	Internal Direct Attainment	SEE Direct Attainment	Overall Direct Attainment	Indirect Attainment	Final Attainment	Remarks
C204.1	1.5	0.6	0.0	0.6	3.0	1.1	
C204.2	1.5	0.6		0.6	3.0	1.1	
C204.3	1.5	0.6		0.6	3.0	1.1	
C204.4	1.5	0.6		0.6	3.0	1.1	

CO Attainment Chart



Remarks by Faculty Member

Akshatha S.A

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Course Coordinator
HOD



BEARYS INSTITUTE OF TECHNOLOGY

Near Mangalore University, Lands End, Innoli
Mangaluru, Karnataka-574153

Department of Mechanical Engineering

Staff Name: Imran Mokashi

Course Name: Kinematics of Machines

NBA Code : C213

Class: IV

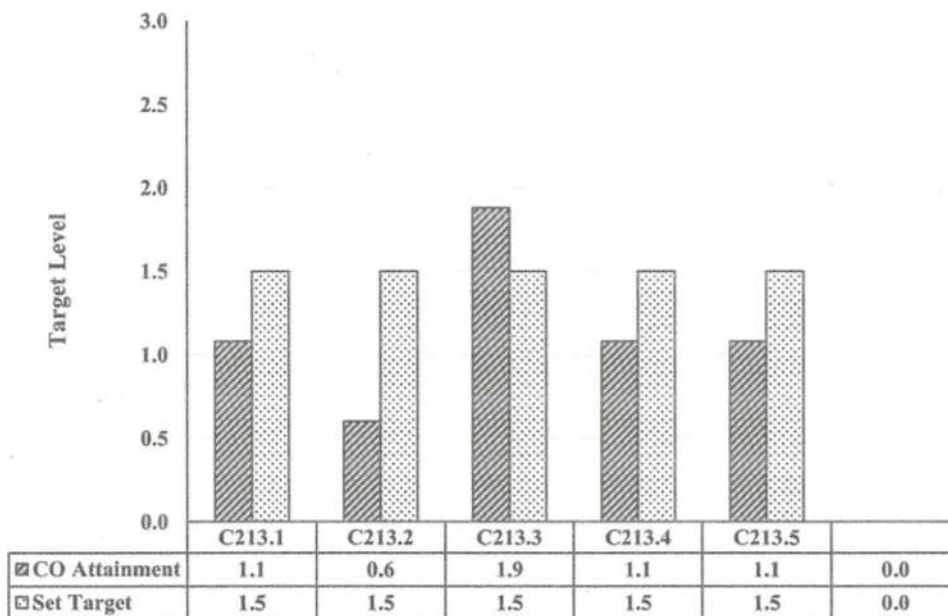
Class Strength: 23

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Final CO Attainment

COs	Assigned Target Level	Internal Direct Attainment	SEE Direct Attainment	Overall Direct Attainment	Indirect Attainment	Final Attainment	Remarks
C213.1	1.5	0.6	0.0	0.6	3.0	1.1	
C213.2	1.5	0.0		0.0	3.0	0.6	
C213.3	1.5	1.6		1.6	3.0	1.9	
C213.4	1.5	0.6		0.6	3.0	1.1	
C213.5	1.5	0.6		0.6	3.0	1.1	

CO Attainment Chart



Remarks by Faculty Member

Imran Mokashi

Course Coordinator

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