



**Rayat Shikshan Sanstha's**  
**Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College**  
Manchar, Tal. Ambegaon, Dist. Pune  
(Reaccredited with 'A' Grade by NAAC)  
Affiliated by Savitribai Phule Pune University, Pune

## **CRITERION II - TEACHING-LEARNING AND EVALUATION**

**AQAR 2022-23**

### **2.6 - STUDENT PERFORMANCE AND LEARNING OUTCOMES**

**2.6.2 - Attainment of Programme outcomes and course outcomes are evaluated by the institution.**

#### **List of Documents:**

- 1. Attainment Manual.**
- 2. Mapping CO, PSO and PO (Sample).**
- 3. CO, PSO, PO Assessment and Attainment (Sample).**
- 4. Patent by Student.**
- 5. List of Rankers.**



**Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce and  
Hutatma Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist Pune**

**Manual  
of  
Attainment of Course Outcomes (CO),  
Program Specific Outcomes (PSO) and  
Program Outcomes (PO)**

  
College Examination Officer  
Annasaheb Awate College, Manchar (Pune)



  
Principal  
Annasaheb Awate Art's, Commerce &  
Hutatma Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist. Pune.

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## PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES AND COURSE OUTCOMES DEFINITION

**Program Outcomes (POs):** PO are narrow statements that describe what the students are expected to know and would be able to do upon the graduation. These relate to the skills, knowledge, and behaviour that students acquire through the programme.

**Program Specific Outcomes (PSOs):** Program Specific Outcomes are statements that describe what the graduates of a specific subject specialization should be able to do.

**Course Outcomes (COs):** Course outcomes are the statements that describe what students are expected to know, and be able to do at the end of each course/subject. While the POs define the departmental outcomes, the COs are more oriented towards the subjects



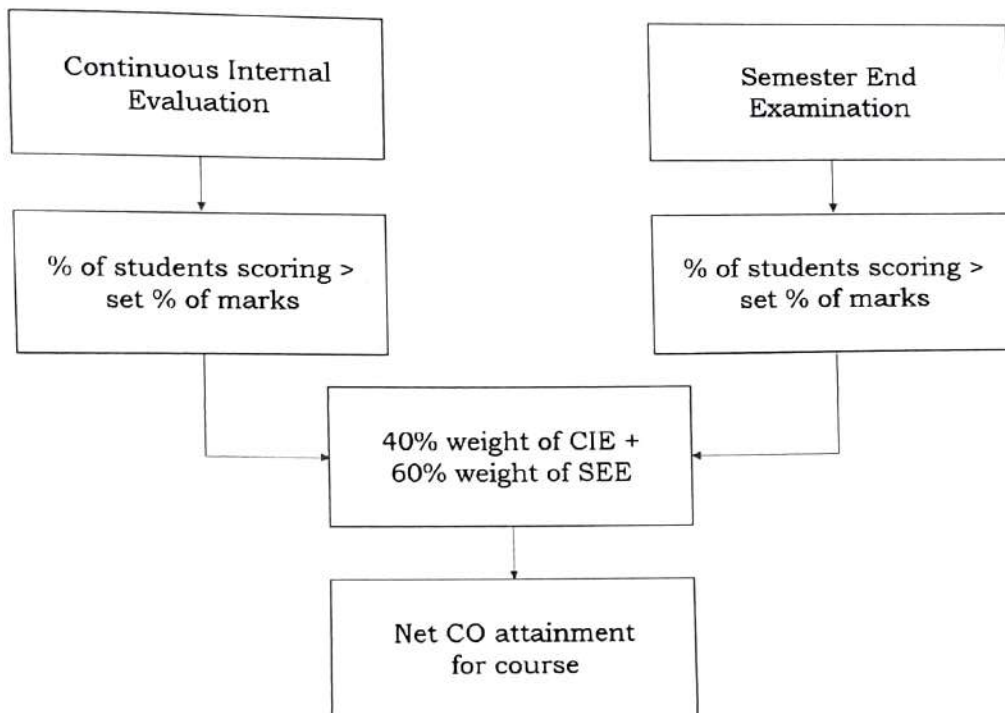
## ATTAINMENT OF CO, PO and PSO

Sr. No.	Type of Assessment	Criteria of Attainment	Attainment Levels
1.	Direct	a) Continuous Internal Evaluation <ul style="list-style-type: none"> <li>• Unit Test</li> <li>• Home Assignments</li> </ul>	60% to 69% = Level 1 70% to 79% = Level 2 ≥80% = Level 3
		b) Performance in End Semester Examination	
2.	Indirect	a) Student Feedback	-
		b) Alumni Feedback	
		c) Non-graded Assessments	



## SCHEME OF ATTAINMENT OF COURSE OUTCOMES

### PROCESS:



### CO Assessment Process for Direct Method

Assessment Tools	Attainment Level	Score	Target Score for CO Assessment
Direct Assessment Tools	60% to 69% = Level 1	1	<b>2.0</b>
	70% to 79% = Level 2	2	
	≥80% = Level 3	3	



## MAPPING OF CO WITH ASSESSMENT METHODS OF CIE

Course Name	:		Course Code	:	
Class	:		Semester	:	
Faculty Name	:		Year	:	

CO/Method	Method 1	Method 2	Method 3	Method 4
	(Name of Method)	(Name of Method)	(Name of Method)	(Name of Method)
CO1				
CO2				
CO3				
CO4				
CO5				

Subject In-charge

Head



## MAPPING OF CO WITH PSO and PO

Course Name	:		Course Code	:	
Class	:		Semester	:	
Faculty Name	:		Year	:	

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1															
CO2															
CO3															
CO4															
CO5															





## Sample Attainment Sheet

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### DEPARTMENT OF ATTAINMENT OF COURSE OUTCOME

Course Name	:		Course Code	:	
Class	:		Semester	:	
Faculty Name	:		Year	:	

#### CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE

	Semester End Exam	CIE	
		Method 1	Method 2
CO mapped			
Target			
Maximum Score			
Minimum Score Set as Basis			
No. of Students Attended			
No. of Students Attained			
Percentage of Students Attained			
Attainment Level			
Final Score			

Subject In-charge

Head



AACM

Manual of Attainment of CO, PSO and PO

*Rayat Shikshan Sanstha's*

Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist Pune

**DEPARTMENT OF ZOOLOGY**  
**ATTAINMENT OF COURSE OUTCOME A. Y.**

**Class:**

**Semester:**

Sr. no.	Courses Name	Course Code	Target Score	Attainment Score
1.				
2.				
3.				
4.				
5.				
6.				
<b>Final Score for TY</b>				




## MAPPING OF CO WITH ASSESSMENT METHODS OF CIE

<b>Course Name</b>	: Algebra	<b>Course Code</b>	: MT 111
<b>Class</b>	: F.Y.B.Sc	<b>Semester</b>	: 1
<b>Faculty Name</b>	: Mr.Fasale V.B.	<b>Year</b>	: 2022-23

CO/Method	Method 1	Method 2
	(Internal exam)	(Assignment)
CO1	✓	
CO2	✓	
CO3		✓
CO4		✓
CO5		
CO6	✓	
CO7		✓


  
**Subject In-charge**

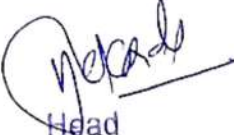
  
**Head Head**  
**Department of Mathematics**

## MAPPING OF CO WITH ASSESSMENT METHODS OF CIE

<b>Course Name</b>	: Calculus I	<b>Course Code</b>	: MT 112
<b>Class</b>	: F.Y.B.Sc	<b>Semester</b>	: 1
<b>Faculty Name</b>	: Mr.Rokade M.D.	<b>Year</b>	: 2022-23

CO/Method	Method 1	Method 2
	(Internal exam)	(Assignment)
CO1	✓	
CO2	✓	
CO3		✓
CO4		✓
CO5		
CO6	✓	
CO7		✓
CO8	✓	


  
**Subject In-charge**


  
**Head**  
 Department of Mathematics

### MAPPING OF CO WITH ASSESSMENT METHODS OF CIE

<b>Course Name</b>	: Analytical Geometry	<b>Course Code</b>	: MT 121
<b>Class</b>	: F.Y.B.Sc	<b>Semester</b>	: 2
<b>Faculty Name</b>	: Mr. Shete R. K.	<b>Year</b>	: 2022-23

CO/Method	Method 1	Method 2
	(Internal exam)	(Assignment)
CO1	✓	
CO2	✓	
CO3		✓
CO4		✓
CO5		
CO6	✓	
CO7		✓

  
**Subject In-charge**

  
**Head**  
 Department of Mathematics

## MAPPING OF CO WITH ASSESSMENT METHODS OF CIE

<b>Course Name</b>	: Calculus II	<b>Course Code</b>	: MT 122
<b>Class</b>	: F.Y.B.Sc	<b>Semester</b>	: 2
<b>Faculty Name</b>	: Mr. Bhalke S.B.	<b>Year</b>	: 2022-23

CO/Method	Method 1	Method 2
	(Internal exam)	(Assignment)
CO1	✓	
CO2	✓	
CO3		✓
CO4		✓
CO5		
CO6	✓	
CO7		✓
CO8	✓	

*S.B. Bhalke*

**Subject In-charge**

*S. B. Bhalke*

**Head**  
Department of Mathematics

### MAPPING OF CO WITH ASSESSMENT METHODS OF CIE

<b>Course Name</b>	: Calculus of several variables	<b>Course Code</b>	: MT 231
<b>Class</b>	: S.Y.B.Sc	<b>Semester</b>	: 3
<b>Faculty Name</b>	: Mr.Fasale V.B.	<b>Year</b>	: 2022-23

CO/Method	Method 1	Method 2
	(Internal exam)	(Assignment)
CO1	✓	
CO2	✓	
CO3		✓
CO4		✓
CO5	✓	
CO6		✓
CO7		
CO8	✓	✓
CO9	✓	
CO10		✓
CO11		
CO12	✓	
CO13		✓



**Subject In-charge**



**Head**  
Department of Mathematics

## MAPPING OF CO WITH ASSESSMENT METHODS OF CIE

<b>Course Name</b>	: Graph Theory	<b>Course Code</b>	: MT 232A
<b>Class</b>	: S.Y.B.Sc	<b>Semester</b>	: 3
<b>Faculty Name</b>	: Mr.Bhalke S.B.	<b>Year</b>	: 2022-23

CO/Method	Method 1	Method 2
	(Internal exam)	(Assignment)
CO1	✓	
CO2	✓	
CO3		✓
CO4		✓
CO5	✓	
CO6		✓
CO7	✓	

*S.Bhalke*

**Subject In-charge**

*[Signature]*

Head  
Department of Mathematics



## MAPPING OF CO WITH ASSESSMENT METHODS OF CIE

<b>Course Name</b>	: Linear Algebra	<b>Course Code</b>	: MT 241
<b>Class</b>	: S.Y.B.Sc	<b>Semester</b>	: 4
<b>Faculty Name</b>	: Mr. Bhalke S.B.	<b>Year</b>	: 2022-23

CO/Method	Method 1	Method 2
	(Internal exam)	(Assignment)
CO1	✓	
CO2	✓	
CO3		✓
CO4		✓
CO5		

*S. Bhalke*  
**Subject In-charge**


*S. Bhalke*  
 Head  
 Dept. **Head** of Mathematics

## MAPPING OF CO WITH ASSESSMENT METHODS OF CIE

<b>Course Name</b>	: Vector Calculus	<b>Course Code</b>	: MT 242A
<b>Class</b>	: S.Y.B.Sc	<b>Semester</b>	: 4
<b>Faculty Name</b>	: Mr. Rokade M.D.	<b>Year</b>	: 2022-23

CO/Method	Method 1	Method 2
	(Internal exam)	(Assignment)
CO1	✓	
CO2		✓
CO3	✓	
CO4		✓
CO5		
CO6	✓	✓
CO7	✓	
CO8		✓
CO9		

  
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## MAPPING OF CO WITH ASSESSMENT METHODS OF CIE

<b>Course Name</b>	: Metric spaces	<b>Course Code</b>	: MT 351
<b>Class</b>	: T.Y.B.Sc	<b>Semester</b>	: 5
<b>Faculty Name</b>	: Mr. Bhalke S.B.	<b>Year</b>	: 2022-23

CO/Method	Method 1	Method 2
	(Internal exam)	(Assignment)
CO1	✓	✓
CO2		
CO3		✓
CO4	✓	✓
CO5	✓	

  
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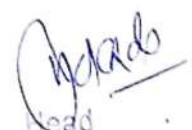
  
**Head of Mathematics**

## MAPPING OF CO WITH ASSESSMENT METHODS OF CIE

<b>Course Name</b>	: Real analysis I	<b>Course Code</b>	: MT 352
<b>Class</b>	: T.Y.B.Sc	<b>Semester</b>	: 5
<b>Faculty Name</b>	: Mr.Rokade M.D.	<b>Year</b>	: 2022-23

CO/Method	Method 1	Method 2
	(Internal exam)	(Assignment)
CO1	✓	
CO2	✓	
CO3		✓
CO4		✓

  
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## MAPPING OF CO WITH ASSESSMENT METHODS OF CIE

<b>Course Name</b>	: Group Theory	<b>Course Code</b>	: MT 353
<b>Class</b>	: T.Y.B.Sc	<b>Semester</b>	: 5
<b>Faculty Name</b>	: Mr.Shete R.K.	<b>Year</b>	: 2022-23

CO/Method	Method 1	Method 2
	(Internal exam)	(Assignment)
CO1	✓	
CO2		✓
CO3		✓
CO4	✓	

  
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 Depa**Head** of Mathematics

### MAPPING OF CO WITH ASSESSMENT METHODS OF CIE

<b>Course Name</b>	: Ordinary Differential Equations	<b>Course Code</b>	: MT 354
<b>Class</b>	: T.Y.B.Sc	<b>Semester</b>	: 5
<b>Faculty Name</b>	: Mr.Fasale V.B.	<b>Year</b>	: 2022-23

CO/Method	Method 1	Method 2
	(Internal exam)	(Assignment)
CO1	✓	
CO2	✓	
CO3		✓

  
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## MAPPING OF CO WITH ASSESSMENT METHODS OF CIE

<b>Course Name</b>	: Operation Research	<b>Course Code</b>	: MT 355(A)
<b>Class</b>	: T.Y.B.Sc	<b>Semester</b>	: 5
<b>Faculty Name</b>	: Mr.Rokade M.D.	<b>Year</b>	: 2022-23

CO/Method	Method 1	Method 2
	(Internal exam)	(Assignment)
CO1	✓	
CO2		✓
CO3		✓

  
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## MAPPING OF CO WITH ASSESSMENT METHODS OF CIE

<b>Course Name</b>	: Number Theory	<b>Course Code</b>	: MT 355B
<b>Class</b>	: T.Y.B.Sc	<b>Semester</b>	: 5
<b>Faculty Name</b>	: Mr.Bhalke S.B.	<b>Year</b>	: 2022-23

CO/Method	Method 1	Method 2
	(Internal exam)	(Assignment)
CO1	✓	✓
CO2	✓	
CO3		✓

*S.Bhalke*  
**Subject In-charge**

*S.Bhalke*  
 Head  
 DepaHead of Mathematics



### MAPPING OF CO WITH ASSESSMENT METHODS OF CIE

<b>Course Name</b>	: Complex Analysis	<b>Course Code</b>	: MT 361
<b>Class</b>	: T.Y.B.Sc	<b>Semester</b>	: 6
<b>Faculty Name</b>	: Mr.Fasale V.B.	<b>Year</b>	: 2022-23

CO/Method	Method 1	Method 2
	(Internal exam)	(Assignment)
CO1	✓	
CO2	✓	
CO3		✓
CO4		✓



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## MAPPING OF CO WITH ASSESSMENT METHODS OF CIE

<b>Course Name</b>	: Real Analysis II	<b>Course Code</b>	: MT 362
<b>Class</b>	: T.Y.B.Sc	<b>Semester</b>	: 6
<b>Faculty Name</b>	: Mr.Rokade M.D.	<b>Year</b>	: 2022-23

CO/Method	Method 1	Method 2
	(Internal exam)	(Assignment)
CO1	✓	
CO2		✓
CO3		✓
CO4	✓	

  
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 Depa**Head** of Mathematics

## MAPPING OF CO WITH ASSESSMENT METHODS OF CIE

<b>Course Name</b>	: Ring Theory	<b>Course Code</b>	: MT 363
<b>Class</b>	: T.Y.B.Sc	<b>Semester</b>	: 6
<b>Faculty Name</b>	: Mr. Shete R.K.	<b>Year</b>	: 2022-23

CO/Method	Method 1	Method 2
	(Internal exam)	(Assignment)
CO1	✓	
CO2	✓	
CO3		✓

  
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## MAPPING OF CO WITH ASSESSMENT METHODS OF CIE

<b>Course Name</b>	: Partial Differential Equation	<b>Course Code</b>	: MT 364
<b>Class</b>	: T.Y.B.Sc	<b>Semester</b>	: 6
<b>Faculty Name</b>	: Mr.Bhalke S.B.	<b>Year</b>	: 2022-23

CO/Method	Method 1	Method 2
	(Internal exam)	(Assignment)
CO1	✓	
CO2	✓	
CO3		✓

*S.Bhalke*  
**Subject In-charge**

*Shirade*  
 Head  
 DepaHead of Mathematics

**MAPPING OF CO WITH ASSESSMENT METHODS OF CIE.**

<b>Course Name</b>	<b>: Optimization Techniques</b>	<b>Course Code</b>	<b>: MT 365A</b>
<b>Class</b>	<b>: T.Y.B.Sc</b>	<b>Semester</b>	<b>: 6</b>
<b>Faculty Name</b>	<b>: Mr.Bhalke S.B.</b>	<b>Year</b>	<b>: 2022-23</b>

CO/Method	Method 1	Method 2
	(Internal exam)	(Assignment)
CO1	✓	
CO2	✓	✓

*S.Bhalke*

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*W. K. Kulkarni*

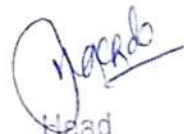
Depar**Head** of Mathematics

## MAPPING OF CO WITH ASSESSMENT METHODS OF CIE

<b>Course Name</b>	: Computational Geometry	<b>Course Code</b>	: MT 366B
<b>Class</b>	: T.Y.B.Sc	<b>Semester</b>	: 6
<b>Faculty Name</b>	: Mr.Rokade M.D.	<b>Year</b>	: 2022-23

CO/Method	Method 1	Method 2
	(Internal exam)	(Assignment)
CO1	✓	✓
CO2	✓	
CO3		✓

  
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 Head  
 Depart**Head** of Mathematics

MAPPING OF CO WITH PSO and PO

Course Name	: Algebra	Course Code	: MT 111
Class	: F.Y.B.Sc	Semester	: 1
Faculty Name	: Mr.Fasale V.B.	Year	: 2022-23

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1			✓							✓					
CO2					✓							✓			
CO3		✓								✓				✓	
CO4		✓									✓				
CO5			✓												✓
CO6	✓						✓					✓			
CO7		✓				✓							✓		

*Fasale*  
Subject In-charge


*Fasale*  
Head  
Department of Mathematics

### MAPPING OF CO WITH PSO AND PO

<b>Course Name</b>	: Calculus I	<b>Course Code</b>	: MT 112
<b>Class</b>	: F.Y.B.Sc	<b>Semester</b>	: 1
<b>Faculty Name</b>	: Mr.Rokade M.D.	<b>Year</b>	: 2022-23

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1					✓					✓					
CO2			✓							✓					
CO3			✓							✓					
CO4	✓														✓
CO5					✓						✓			✓	
CO6		✓										✓			
CO7	✓												✓		
CO8	✓		✓			✓							✓		

  
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 Department of Mathematics




### MAPPING OF CO WITH PSO AND PO

<b>Course Name</b>	: Analytical Geometry	<b>Course Code</b>	: MT 121
<b>Class</b>	: F.Y.B.Sc	<b>Semester</b>	: 2
<b>Faculty Name</b>	: Mr. Shete R.K.	<b>Year</b>	: 2022-23

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1			✓							✓					
CO2					✓							✓			
CO3		✓								✓				✓	
CO4		✓									✓				
CO5			✓												✓
CO6		✓										✓			
CO7	✓												✓		
CO8	✓		✓			✓							✓		

  
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Department of Mathematics

### MAPPING OF CO WITH PSO AND PO

<b>Course Name</b>	: Calculus II	<b>Course Code</b>	: MT 122
<b>Class</b>	: F.Y.B.Sc	<b>Semester</b>	: 2
<b>Faculty Name</b>	: Mr.Bhalke S.B.	<b>Year</b>	: 2022-23

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1					✓					✓					
CO2			✓							✓					
CO3			✓							✓					
CO4	✓														✓
CO5					✓						✓			✓	
CO6		✓										✓			
CO7	✓												✓		
CO8	✓		✓			✓							✓		

*S.Bhalke*  
**Subject In-charge**

*S.Bhalke*  
**Head**  
Department of Mathematics

### MAPPING OF CO WITH PSO AND PO

Course Name	: Calculus of several variables	Course Code	: MT 231
Class	: S.Y.B.Sc	Semester	: 3
Faculty Name	: Mr.Fasale V.B.	Year	: 2022-23

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1			✓							✓					
CO2					✓					✓					
CO3		✓								✓					
CO4		✓									✓				
CO5		✓											✓		
CO6			✓											✓	
CO7		✓											✓		
CO8			✓							✓					
CO9	✓					✓						✓			✓
CO10				✓				✓						✓	
CO11		✓				✓						✓			
CO12	✓				✓						✓				
CO13			✓				✓							✓	

*[Signature]*  
Subject In-charge

*[Signature]*  
Head  
Department of Mathematics

**MAPPING OF CO WITH PSO AND PO**

Course Name	: Graph Theory	Course Code	: MT 232B
Class	: S.Y.B.Sc	Semester	: 3
Faculty Name	: Mr.Bhalke S.B.	Year	: 2022-23

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1						✓				✓					
CO2						✓						✓			
CO3	✓									✓					✓
CO4			✓								✓				
CO5	✓												✓		
CO6			✓										✓		
CO7		✓												✓	

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*S.Bhalke*  
Head  
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MAPPING OF CO WITH PSO AND PO

Course Name	: Linear Algebra	Course Code	: MT 241
Class	: S.Y.B.Sc	Semester	: 4
Faculty Name	: Mr. Bhalke S.B.	Year	: 2022-23

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓							✓		✓					
CO2			✓		✓							✓			
CO3	✓						✓						✓		
CO4		✓							✓					✓	✓

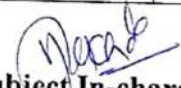
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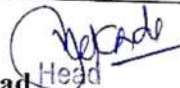
*S.Bhalke*  
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Department of Mathematics

### MAPPING OF CO WITH PSO AND PO

Course Name	: Vector Calculus	Course Code	: MT 242A
Class	: S.Y.B.Sc	Semester	: 4
Faculty Name	: Mr. Rokade M.D.	Year	: 2022-23

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓		✓				✓				✓		✓		
CO2		✓		✓		✓				✓		✓		✓	
CO3		✓		✓			✓						✓		
CO4	✓		✓					✓		✓		✓			
CO5				✓		✓					✓			✓	
CO6	✓		✓		✓								✓		
CO7					✓					✓		✓			✓
CO8	✓		✓				✓				✓			✓	
CO9								✓					✓		

  
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MAPPING OF CO WITH PSO AND PO

Course Name	: Metric spaces	Course Code	: MT 351
Class	: T.Y.B.Sc	Semester	: 5
Faculty Name	: Mr. Bhalke S.B.	Year	: 2022-23

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1		✓								✓					
CO2			✓				✓				✓		✓		
CO3						✓				✓				✓	
CO4					✓		✓				✓		✓		
CO5			✓					✓					✓		✓

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### MAPPING OF CO WITH PSO AND PO

Course Name	: Real analysis I	Course Code	: MT 352
Class	: T.Y.B.Sc	Semester	: 5
Faculty Name	: Mr.Rokade M.D.	Year	: 2022-23

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓									✓					
CO2			✓			✓						✓		✓	
CO3	✓			✓				✓					✓		
CO4		✓									✓				✓

  
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**MAPPING OF CO WITH PSO AND PO**

Course Name	: Group Theory	Course Code	: MT 353
Class	: T.Y.B.Sc	Semester	: 5
Faculty Name	: Mr. Shete R.K.	Year	: 2022-23

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓			✓	✓	✓				✓					
CO2			✓			✓		✓				✓			✓
CO3		✓			✓		✓				✓		✓		
CO4		✓												✓	

*R.K.*

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*Head*


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### MAPPING OF CO WITH PSO AND PO

Course Name	: Ordinary Differential Equations	Course Code	: MT 354
Class	: T.Y.B.Sc	Semester	: 5
Faculty Name	: Mr.Fasale V.B.	Year	: 2022-23

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓			✓						✓			✓		
CO2		✓		✓	✓						✓				✓
CO3			✓			✓				✓		✓		✓	

  
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MAPPING OF CO WITH PSO AND PO

Course Name	: Operation Research	Course Code	: MT 355(A)
Class	: T.Y.B.Sc	Semester	: 5
Faculty Name	: Mr.Rokade M.D.	Year	: 2022-23

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	✓	✓			✓		✓			✓	✓			
CO2				✓	✓					✓		✓		✓	
CO3	✓		✓		✓			✓					✓		

  
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### MAPPING OF CO WITH PSO AND PO

Course Name	: Number Theory	Course Code	: MT 355B
Class	: T.Y.B.Sc	Semester	: 5
Faculty Name	: Mr.Bhalke S.B.	Year	: 2022-23

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓		✓			✓		✓				✓			
CO2					✓					✓		✓		✓	
CO3	✓				✓			✓			✓		✓		

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### MAPPING OF CO WITH PSO AND PO

<b>Course Name</b>	: Complex Analysis	<b>Course Code</b>	: MT 361
<b>Class</b>	: T.Y.B.Sc	<b>Semester</b>	: 6
<b>Faculty Name</b>	: Mr.Fasale V.B.	<b>Year</b>	: 2022-23

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
<b>CO1</b>	✓		✓		✓						✓	✓			
<b>CO2</b>						✓				✓				✓	✓
<b>CO3</b>				✓			✓	✓							
<b>CO4</b>		✓	✓					✓					✓		

*Fasale*  
**Subject In-charge**


*Morads*  
**Head**  
Department of Mathematics

### MAPPING OF CO WITH PSO AND PO

Course Name	: Real Analysis II	Course Code	: MT 362
Class	: T.Y.B.Sc	Semester	: 6
Faculty Name	: Mr. Rokade M.D.	Year	: 2022-23

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓									✓					
CO2			✓			✓						✓		✓	
CO3	✓			✓				✓					✓		
CO4		✓									✓				✓


  
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### MAPPING OF CO WITH PSO AND PO

<b>Course Name</b>	: Ring Theory	<b>Course Code</b>	: MT 363
<b>Class</b>	: T.Y.B.Sc	<b>Semester</b>	: 6
<b>Faculty Name</b>	: Mr. Shete R.K.	<b>Year</b>	: 2022-23

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓			✓		✓				✓					
CO2			✓			✓		✓				✓			✓
CO3		✓			✓		✓				✓		✓		

  
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**MAPPING OF CO WITH PSO AND PO**

<b>Course Name</b>	<b>: Partial Differential Equation</b>	<b>Course Code</b>	<b>: MT 364</b>
<b>Class</b>	<b>: T.Y.B.Sc</b>	<b>Semester</b>	<b>: 6</b>
<b>Faculty Name</b>	<b>: Mr.Bhalke S.B.</b>	<b>Year</b>	<b>: 2022-23</b>

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓			✓						✓			✓		
CO2					✓						✓				✓
CO3	✓		✓			✓				✓		✓		✓	

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MAPPING OF CO WITH PSO AND PO

Course Name	: Optimization Techniques	Course Code	: MT 365(A)
Class	: T.Y.B.Sc	Semester	: 6
Faculty Name	: Mr.Bhalke S.B.	Year	: 2022-23

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	✓	✓			✓		✓		✓				✓	
CO2		✓		✓			✓				✓		✓		✓

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*[Signature]*  
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MAPPING OF CO WITH PSO AND PO

Course Name	: Computational Geometry	Course Code	: MT 366(B)
Class	: I. Y. B.Sc	Semester	: 6
Faculty Name	: Mr. Kulkarni M.D.	Year	: 2022-23

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓		✓			✓				✓		✓		✓	
CO2		✓			✓		✓						✓		
CO3	✓		✓					✓			✓				✓

  
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**DEPARTMENT OF MATHEMATICS**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Algebra	Course Code	: MT 111
Class	: F.Y.B.Sc	Semester	: 1
Faculty Name	: Mr. Fasale V.B.	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Semester End Exam	CIE	
		Method 1	Method 2
CO mapped	All	CO1, CO2	CO3, CO4
Target	50%	50%	50%
Maximum Score	35	10	5
Minimum Score Set as Basis	17.5	5	2.5
No. of Students Attended	21	21	21
No. of Students Attained	12	17	19
Percentage of Students Attained	57.14	80.95	90.47
Attainment Level	1	3	3
Final Score	1	$(3+3/2) = 3$	
	0.5(50% of 1)	1.5 (50% of 3)	
	<b>2.0</b>		

  
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**DEPARTMENT OF MATHEMATICS**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Calculus I	Course Code	: MT 112
Class	: F.Y.B.Sc	Semester	: 1
Faculty Name	: Mr. Rokade M.D.	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Semester End Exam	CIE	
		Method 1	Method 2
CO mapped	All	CO1, CO2	CO3, CO4
Target	50%	50%	50%
Maximum Score	35	10	5
Minimum Score Set as Basis	17.5	5	2.5
No. of Students Attended	21	21	21
No. of Students Attained	09	18	19
Percentage of Students Attained	42.85	85.71	90.47
Attainment Level	1	3	3
Final Score	0	$(3+3/2) = 3$	
	0(50% of 0)	1.5 (50% of 3)	
	1.5		

  
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**DEPARTMENT OF MATHEMATICS**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Analytical Geometry	Course Code	: MT 121
Class	: F.Y.B.Sc	Semester	: 2
Faculty Name	: Mr. Shete R.K.	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Semester End Exam	CIE	
		Method 1	Method 2
CO mapped	All	CO1, CO2	CO3, CO4
Target	50%	50%	50%
Maximum Score	35	10	5
Minimum Score Set as Basis	17.5	5	2.5
No. of Students Attended	21	21	21
No. of Students Attained	18	19	18
Percentage of Students Attained	85.71	80.95	85.71
Attainment Level	3	3	3
Final Score	3	$(3+3/2) = 3$	
	1.5(50% of 3)	1.5 (50% of 3)	
	<b>3.0</b>		

  
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**DEPARTMENT OF MATHEMATICS**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Calculus II	Course Code	: MT 122
Class	: F.Y.B.Sc	Semester	: 2
Faculty Name	: Mr. Bhalke S.B.	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Semester End Exam	CIE	
		Method 1	Method 2
CO mapped	All	CO1, CO2	CO3, CO4
Target	50%	50%	50%
Maximum Score	35	10	5
Minimum Score Set as Basis	17.5	5	2.5
No. of Students Attended	21	21	21
No. of Students Attained	15	18	19
Percentage of Students Attained	71.42	85.71	90.47
Attainment Level	3	3	3
Final Score	3	$(3+3/2) = 3$	
	1.5(50% of 3)	1.5 (50% of 3)	
	<b>3.0</b>		

*S.B. Bhalke*  
**Subject In-charge**

*S.B. Bhalke*  
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**DEPARTMENT OF MATHEMATICS**  
**ATTAINMENT OF COURSE OUTCOME 2022-23**

**Class: FYBSc**

**Semester: I**

<b>Sr. no.</b>	<b>Courses Name</b>	<b>Course Code</b>	<b>Target Score</b>	<b>Attainment Score</b>
1.	Algebra	MT 111	2.0	2.0
2.	Calculus I	MT 112	2.0	1.5
<b>Final Score for FYBSc</b>				1.75

  
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**DEPARTMENT OF MATHEMATICS**  
**ATTAINMENT OF COURSE OUTCOME 2022-23**

**Class: FYBSc**

**Semester: II**

<b>Sr. no.</b>	<b>Courses Name</b>	<b>Course Code</b>	<b>Target Score</b>	<b>Attainment Score</b>
1.	Analytical geometry	MT 121	2.0	3.0
2.	Calculus II	MT 122	2.0	3.0
<b>Final Score for FYBSc</b>				3.0

  
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**DEPARTMENT OF MATHEMATICS**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Calculus of several variables	Course Code	: MT 231
Class	: S.Y.B.Sc	Semester	: 3
Faculty Name	: Mr. Fasale V.B.	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Semester End Exam	CIE	
		Method 1	Method 2
CO mapped	All	CO1, CO2	CO3, CO4
Target	50%	50%	50%
Maximum Score	35	10	5
Minimum Score Set as Basis	17.5	5	2.5
No. of Students Attended	15	15	15
No. of Students Attained	15	13	13
Percentage of Students Attained	100	86.66	86.66
Attainment Level	3	3	3
Final Score	3	$(3+3/2) = 3$	
	1.5(50% of 3)	1.5 (50% of 3)	
	<b>3.0</b>		



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**DEPARTMENT OF MATHEMATICS**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Graph Theory	Course Code	: MT 232B
Class	: S.Y.B.Sc	Semester	: 3
Faculty Name	: Mr. Bhalke S.B.	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Semester End Exam	CIE	
		Method 1	Method 2
CO mapped	All	CO1, CO2	CO3, CO4
Target	50%	50%	50%
Maximum Score	35	10	5
Minimum Score Set as Basis	17.5	5	2.5
No. of Students Attended	15	15	15
No. of Students Attained	14	13	14
Percentage of Students Attained	93.33	86.66	93.33
Attainment Level	3	3	3
Final Score	3	$(3+3/2) = 3$	
	1.5(50% of 3)	1.5 (50% of 3)	
	<b>3.0</b>		

*S.Bhalke*

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**DEPARTMENT OF MATHEMATICS**  
**ATTAINMENT OF COURSE OUTCOME 2022-23**

**Class: SYBSc**

**Semester: III**

<b>Sr. no.</b>	<b>Courses Name</b>	<b>Course Code</b>	<b>Target Score</b>	<b>Attainment Score</b>
1.	Calculus of several variables	MT 231	2.0	3.0
2.	Graph Theory	MT 232B	2.0	3.0
<b>Final Score for SYBSc</b>				<b>3.0</b>

  
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**DEPARTMENT OF MATHEMATICS**  
**ATTAINMENT OF COURSE OUTCOME**

<b>Course Name</b>	: Linear Algebra	<b>Course Code</b>	: MT 241
<b>Class</b>	: S.Y.B.Sc	<b>Semester</b>	: 4
<b>Faculty Name</b>	: Mr. Bhalke S.B.	<b>Year</b>	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Semester End Exam	CIE	
		Method 1	Method 2
<b>CO mapped</b>	All	CO1, CO2	CO3, CO4
<b>Target</b>	50%	50%	50%
<b>Maximum Score</b>	35	10	5
<b>Minimum Score Set as Basis</b>	17.5	5	2.5
<b>No. of Students Attended</b>	15	15	15
<b>No. of Students Attained</b>	14	13	14
<b>Percentage of Students Attained</b>	93.33	86.66	93.33
<b>Attainment Level</b>	3	3	3
<b>Final Score</b>	3	$(3+3/2) = 3$	
	1.5(50% of 3)	1.5 (50% of 3)	
	<b>3.0</b>		

*S.Bhalke*  
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**DEPARTMENT OF MATHEMATICS**  
**ATTAINMENT OF COURSE OUTCOME**

<b>Course Name</b>	: Vector calculus	<b>Course Code</b>	: MT 242A
<b>Class</b>	: S.Y.B.Sc	<b>Semester</b>	: 4
<b>Faculty Name</b>	: Mr. Rokade M.D.	<b>Year</b>	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Semester End Exam	CIE	
		Method 1	Method 2
<b>CO mapped</b>	All	CO1, CO2	CO3, CO4
<b>Target</b>	50%	50%	50%
<b>Maximum Score</b>	35	10	5
<b>Minimum Score Set as Basis</b>	17.5	5	2.5
<b>No. of Students Attended</b>	15	15	15
<b>No. of Students Attained</b>	12	13	13
<b>Percentage of Students Attained</b>	80	86.66	86.66
<b>Attainment Level</b>	3	3	3
<b>Final Score</b>	3	$(3+3/2) = 3$	
	1.5(50% of 3)	1.5 (50% of 3)	
	<b>3.0</b>		

  
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**DEPARTMENT OF MATHEMATICS**  
**ATTAINMENT OF COURSE OUTCOME 2022-23**

**Class: SYBSc**

**Semester: IV**

<b>Sr. no.</b>	<b>Courses Name</b>	<b>Course Code</b>	<b>Target Score</b>	<b>Attainment Score</b>
1.	Linear algebra	MT 231	2.0	3.0
2.	Vector calculus	MT 232A	2.0	3.0
<b>Final Score for SYBSc</b>				3.0

  
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**DEPARTMENT OF MATHEMATICS**  
**ATTAINMENT OF COURSE OUTCOME**

<b>Course Name</b>	: Metric spaces	<b>Course Code</b>	: MT 351
<b>Class</b>	: T.Y.B.Sc	<b>Semester</b>	: 5
<b>Faculty Name</b>	: Mr. Bhalke S.B.	<b>Year</b>	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Semester End Exam	CIE	
		Method 1	Method 2
<b>CO mapped</b>	All	CO1, CO2	CO3, CO4
<b>Target</b>	60%	60%	60%
<b>Maximum Score</b>	35	10	5
<b>Minimum Score Set as Basis</b>	21	6	3
<b>No. of Students Attended</b>	04	04	04
<b>No. of Students Attained</b>	04	04	04
<b>Percentage of Students Attained</b>	100	100	100
<b>Attainment Level</b>	3	3	3
<b>Final Score</b>	3	$(3+3/2) = 3$	
	1.8(60% of 3)	1.2 (40% of 3)	
	<b>3.0</b>		

*S.B. Bhalke*  
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*S.B. Bhalke*  
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**DEPARTMENT OF MATHEMATICS**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Real analysis I	Course Code	: MT 352
Class	: T.Y.B.Sc	Semester	: 5
Faculty Name	: Mr. Rokade M.D.	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Semester End Exam	CIE	
		Method 1	Method 2
<b>CO mapped</b>	All	CO1, CO2	CO3, CO4
<b>Target</b>	60%	60%	60%
<b>Maximum Score</b>	35	10	5
<b>Minimum Score Set as Basis</b>	21	6	3
<b>No. of Students Attended</b>	04	04	04
<b>No. of Students Attained</b>	04	04	04
<b>Percentage of Students Attained</b>	100	100	100
<b>Attainment Level</b>	3	3	3
<b>Final Score</b>	3	$(3+3/2) = 3$	
	1.8(60% of 3)	1.2 (40% of 3)	
	<b>3.0</b>		

  
**Subject In-charge**

  
 Head  
 Department of Mathematics  
**Head**




*Rayat Shikshan Sanstha's*  
**Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science College**  
 Manchar, Tal. Ambegaon, Dist Pune

**DEPARTMENT OF MATHEMATICS**  
**ATTAINMENT OF COURSE OUTCOME**

<b>Course Name</b>	: Group Theory	<b>Course Code</b>	: MT 353
<b>Class</b>	: T.Y.B.Sc	<b>Semester</b>	: 5
<b>Faculty Name</b>	: Mr.Shete R.K.	<b>Year</b>	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Semester End Exam	CIE	
		Method 1	Method 2
<b>CO mapped</b>	All	CO1, CO2	CO3, CO4
<b>Target</b>	60%	60%	60%
<b>Maximum Score</b>	35	10	5
<b>Minimum Score Set as Basis</b>	21	6	3
<b>No. of Students Attended</b>	04	04	04
<b>No. of Students Attained</b>	04	04	04
<b>Percentage of Students Attained</b>	100	100	100
<b>Attainment Level</b>	3	3	3
<b>Final Score</b>	3	$(3+3/2) = 3$	
	1.8(60% of 3)	1.2 (40% of 3)	
	<b>3.0</b>		

  
**Subject In-charge**

  
 Head  
 Department of Mathematics  
**Head**

*Rayat Shikshan Sanstha's*  
**Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science College**  
 Manchar, Tal. Ambegaon, Dist Pune


**DEPARTMENT OF MATHEMATICS**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Ordinary Differential Equations	Course Code	: MT 354
Class	: T.Y.B.Sc	Semester	: 5
Faculty Name	: Mr. Fasale V.B	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Semester End Exam	CIE	
		Method 1	Method 2
CO mapped	All	CO1, CO2	CO3, CO4
Target	50%	50%	50%
Maximum Score	35	10	5
Minimum Score Set as Basis	17.5	5	2.5
No. of Students Attended	04	04	04
No. of Students Attained	04	04	04
Percentage of Students Attained	100	100	100
Attainment Level	3	3	3
Final Score	3	$(3+3/2) = 3$	
	1.5(50% of 3)	1.5 (50% of 3)	
	<b>3.0</b>		

  
**Subject In-charge**

  
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 Manchar, Tal. Ambegaon, Dist Pune


**DEPARTMENT OF MATHEMATICS**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Operation Research	Course Code	: MT 355(A)
Class	: T.Y.B.Sc	Semester	: 5
Faculty Name	: Mr. Rokade M.D.	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Semester End Exam	CIE	
		Method 1	Method 2
CO mapped	All	CO1, CO2	CO3, CO4
Target	60%	60%	60%
Maximum Score	35	10	5
Minimum Score Set as Basis	21	6	3
No. of Students Attended	04	04	04
No. of Students Attained	04	04	04
Percentage of Students Attained	100	100	100
Attainment Level	3	3	3
Final Score	3	$(3+3/2) = 3$	
	1.8(60% of 3)	1.2 (40% of 3)	
	<b>3.0</b>		

  
**Subject In-charge**

  
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 Department of Mathematics  
**Head**

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**DEPARTMENT OF MATHEMATICS**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Number Theory	Course Code	: MT 355B
Class	: T.Y.B.Sc	Semester	: 5
Faculty Name	: Mr. Bhalke S.B.	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Semester End Exam	CIE	
		Method 1	Method 2
CO mapped	All	CO1, CO2	CO3, CO4
Target	60%	60%	60%
Maximum Score	35	10	5
Minimum Score Set as Basis	21	6	3
No. of Students Attended	04	04	04
No. of Students Attained	04	04	04
Percentage of Students Attained	100	100	100
Attainment Level	3	3	3
Final Score	3	$(3+3/2) = 3$	
	1.8 (60% of 3)	1.2 (40% of 3)	
	<b>3.0</b>		

*S.B. Bhalke*  
**Subject In-charge**

*S.B. Bhalke*  
 Head  
 Department of Mathematics

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 Manchar, Tal. Ambegaon, Dist Pune

**DEPARTMENT OF MATHEMATICS**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Complex Analysis	Course Code	: MT 361
Class	: T.Y.B.Sc	Semester	: 6
Faculty Name	: Mr. Fasale V.B.	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Semester End Exam	CIE	
		Method 1	Method 2
CO mapped	All	CO1, CO2	CO3, CO4
Target	60%	60%	60%
Maximum Score	35	10	5
Minimum Score Set as Basis	21	6	3
No. of Students Attended	04	04	04
No. of Students Attained	04	04	04
Percentage of Students Attained	100	100	100
Attainment Level	3	3	3
Final Score	3	$(3+3/2) = 3$	
	1.8 (60% of 3)	1.2 (40% of 3)	
	3.0		

*[Signature]*  
**Subject In-charge**

*[Signature]*  
 Head  
 Department of Mathematics

*Rayat Shikshan Sanstha's*  
**Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science College**  
 Manchar, Tal. Ambegaon, Dist Pune


**DEPARTMENT OF MATHEMATICS**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Real analysis II	Course Code	: MT 362
Class	: T.Y.B.Sc	Semester	: 6
Faculty Name	: Mr. Rokade M.D.	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Semester End Exam	CIE	
		Method 1	Method 2
CO mapped	All	CO1, CO2	CO3, CO4
Target	60%	60%	60%
Maximum Score	35	10	5
Minimum Score Set as Basis	21	6	3
No. of Students Attended	04	04	04
No. of Students Attained	04	04	04
Percentage of Students Attained	100	100	100
Attainment Level	3	3	3
Final Score	3	$(3+3/2) = 3$	
	1.8 (60% of 3)	1.2 (40% of 3)	
	3.0		

  
**Subject In-charge**

  
**Head of Mathematics**

*Rayat Shikshan Sanstha's*  
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**DEPARTMENT OF MATHEMATICS**  
**ATTAINMENT OF COURSE OUTCOME**

<b>Course Name</b>	: Ring Theory	<b>Course Code</b>	: MT 363
<b>Class</b>	: T.Y.B.Sc	<b>Semester</b>	: 6
<b>Faculty Name</b>	: Mr.Shete R.K.	<b>Year</b>	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Semester End Exam	CIE	
		Method 1	Method 2
<b>CO mapped</b>	All	CO1, CO2	CO3, CO4
<b>Target</b>	60%	60%	60%
<b>Maximum Score</b>	35	10	5
<b>Minimum Score Set as Basis</b>	21	6	3
<b>No. of Students Attended</b>	04	04	04
<b>No. of Students Attained</b>	04	04	04
<b>Percentage of Students Attained</b>	100	100	100
<b>Attainment Level</b>	3	3	3
<b>Final Score</b>	3	(3+3/ 2) = 3	
	1.8 (60% of 3)	1.2 (40% of 3)	
	<b>3.0</b>		

  
**Subject In-charge**

  
 Head  
 Dep~~Head~~ of Mathematics

*Rayat Shikshan Sanstha's*  
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**DEPARTMENT OF MATHEMATICS**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Partial Differential Equation	Course Code	: MT 364
Class	: T.Y.B.Sc	Semester	: 6
Faculty Name	: Mr. Bhalke S.B.	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Semester End Exam	CIE	
		Method 1	Method 2
CO mapped	All	CO1, CO2	CO3, CO4
Target	60%	60%	60%
Maximum Score	35	10	5
Minimum Score Set as Basis	21	6	3
No. of Students Attended	04	04	04
No. of Students Attained	04	04	04
Percentage of Students Attained	100	100	100
Attainment Level	3	3	3
Final Score	3	$(3+3/2) = 3$	
	1.8 (60% of 3)	1.2 (40% of 3)	
	3.0		

*S. Bhalke*  
**Subject In-charge**

*S. Bhalke*  
**Head** of Mathematics



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**DEPARTMENT OF MATHEMATICS**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Optimization Techniques	Course Code	: MT 365A
Class	: T.Y.B.Sc	Semester	: 6
Faculty Name	: Mr. Bhalke S.B.	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Semester End Exam	CIE	
		Method 1	Method 2
CO mapped	All	CO1, CO2	CO3, CO4
Target	60%	60%	60%
Maximum Score	35	10	5
Minimum Score Set as Basis	21	6	3
No. of Students Attended	04	04	04
No. of Students Attained	04	04	04
Percentage of Students Attained	100	100	100
Attainment Level	3	3	3
Final Score	3	$(3+3/2) = 3$	
	1.8 (60% of 3)	1.2 (40% of 3)	
	3.0		

*S.Bhalke*  
**Subject In-charge**

*S.Bhalke*  
 Head  
**Department of Mathematics**

*Rayat Shikshan Sanstha's*  
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 Manchar, Tal. Ambegaon, Dist Pune


**DEPARTMENT OF MATHEMATICS**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Computational Geometry	Course Code	: MT 366B
Class	: T.Y.B.Sc	Semester	: 6
Faculty Name	: Mr. Rokade M.D.	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Semester End Exam	CIE	
		Method 1	Method 2
CO mapped	All	CO1, CO2	CO3, CO4
Target	60%	60%	60%
Maximum Score	35	10	5
Minimum Score Set as Basis	21	6	3
No. of Students Attended	04	04	04
No. of Students Attained	04	04	04
Percentage of Students Attained	50	100	100
Attainment Level	3	3	3
Final Score	3	$(3+3/2) = 3$	
	1.8 (60% of 3)	1.2 (40% of 3)	
	<b>3.0</b>		

  
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**DEPARTMENT OF MATHEMATICS**  
**ATTAINMENT OF COURSE OUTCOME 2022-23**

**Class: TYBSc**

**Semester: V**

Sr. no.	Courses Name	Course Code	Target Score	Attainment Score
1.	Metric Space	MT 351	2.4	3
2.	Real Analysis -I	MT 352	2.4	3
3.	Group Theory	MT 353	2.4	3
4.	Ordinary Differential Equation	MT 354	2.0	3
5.	Operation Research	MT 355A	2.4	3
6.	Number Theory	MT 356B	2.4	3
Final Score of T.Y.B.Sc				3

  
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**DEPARTMENT OF MATHEMATICS**  
**ATTAINMENT OF COURSE OUTCOME 2022-23**

**Class: TYBSc**

**Semester: VI**

Sr. no.	Courses Name	Course Code	Target Score	Attainment Score
1.	Complex Analysis	MT 361	2.4	3.0
2.	Real Analysis -II	MT 362	2.4	3.0
3.	Ring Theory	MT 363	2.4	3.0
4.	Partial Differential Equation	MT 364	2.4	3.0
5.	Optimization Techniques	MT 365A	2.4	3.0
6.	Computational Geometry	MT 366B	2.4	3.0
Final Score of T.Y.B.Sc				3.0

  
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*Rayat Shikshan Sanstha's*

Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist Pune

DEPARTMENT OF MATHEMATICS  
ATTAINMENT OF PROGRAMME OUTCOME AND  
PROGRAMME SPECIFIC OUTCOMES

Year: 2022-23

Sr. No.	Course	CO Attainment Score (Final)	PSO Attainment
1.	FYBSc	2.375	2.375+3.0+3.0/ 3 = 2.7916
2.	SYBSc	3.0	
3.	TYBSc	3.0	

  
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**Note:**

- 1. NUMBER OF METHODS CAN BE ADDED**
- 2. TARGET SCORE CAN BE DECREASED**
- 3. THIS CO ASSESSMENT HAS TO BE DONE FOR ALL THE COURSES FROM FYBSc, SYBSc and TYBSc**

**Rayat Shikshan Sanstha's**  
**Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College**  
 Manchar, Tal. Ambegaon, Dist. Pune

**DEPARTMENT OF ELECTRONIC SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Basics of Applied Electronics	Course.Code	: EL-111
Class	: FYBSc	Semester	: I
Faculty Name	: Mr. S A Belage	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS & CIE**

	Semester End Exam	CIE				
		Prelims	Home Assignment	Unit Test	Seminar 1	Seminar 2
Target	60%	60%	60%	60%	60%	60%
Maximum Score	50	40	10	20	20	10
Minimum Score Set as Basis	30	24	6	8	8	6
No. of Students Attended	21	21	21	21	21	21
No. of Students Attained	14	21	18	15	14	16
Percentage of Students Attained	66.66%	100%	85.71%	71.42%	66.66%	76.19%
Attainment Level	1	3	3	2	1	2
Final Score	2	2.2				
	0.6 (60% of 3)	0.88 (40% of 2.2)				
		1.48				

Subject In-charge



*[Signature]*  
 Head  
 Head  
 Dept. of Electronic Science  
 A. A. College, Manchar

**Rayat Shikshan Sanstha's**  
**Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College**  
**Manchar, Tal. Ambegaon, Dist Pune**

**DEPARTMENT OF ELECTRONIC SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Electronic Devices and Circuits	Course Code	: EL-112
Class	: FYBSc	Semester	: I
Faculty Name	: Ms. A M Dange	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS & CIE**

	Semester End-Exam	Prelims	Unit Test 2	Unit Test 2	Seminar 1
Target	60%	60%	60%	60%	60%
Maximum Score	50	40	10	20	20
Minimum Score Set as Basis	30	24	6	8	8
No. of Students Attended	21	21	21	21	21
No. of Students Attained	14	21	18	15	14
Percentage of Students Attained	66.66%	100%	85.71%	71.42%	66.66%
Attainment Level	1	3	3	2	1
Final Score	2	2.2			
	0.6 (60% of 3)	0.88 (40% of 2.2)			
	1.48				

  
**Subject In-charge**

  
**Head**  
**Dept. of Electronic Science**  
**A. A. College, Manchar**




*Rayat Shikshan Sanstha's*  
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Manchar, Tal. Ambegaon, Dist Pune


**DEPARTMENT OF ELECTRONIC SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Fundamental of Digital Electronics	Course Code	: EL-121
Class	: FYBSc	Semester	: II
Faculty Name	: Ms. A M Dange	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS & CIE**

	Semester End Exam	CIE				
		Prelims	Home Assignment	Class Test	Seminar 1	Seminar 2
Target	60%	60%	60%	60%	60%	60%
Maximum Score	50	40	10	20	20	10
Minimum Score Set as Basis	30	24	6	8	8	6
No. of Students Attended	21	21	21	21	21	21
No. of Students Attained	21	21	14	13	12	13
Percentage of Students Attained	100%	100%	82.35%	76.47%	70.58%	76.47%
Attainment Level	3	3	3	2	2	2
Final Score	3	2.4				
	1.8 (60% of 3)	0.96 (40% of 2.4)				
		2.76				

  
Subject In-charge

  
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A. A. College, Manchar





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**DEPARTMENT OF ELECTRONIC SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Analog & Digital Device Applications	Course Code	: EL-122
Class	: FYBSc	Semester	: II
Faculty Name	: Ms. J B Khilari	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS & CIE**

	Semester End Examination	CIE				
		Prelims	Home Assignment	Class Test	Seminar 1	Seminar 2
Target	60%	60%	60%	60%	60%	60%
Maximum Score	50	40	10	20	20	10
Minimum Score Set as Basis	30	24	6	8	8	6
No. of Students Attended	21	21	21	21	21	21
No. of Students Attained	21	21	14	13	12	13
Percentage of Students Attained	100%	100%	82.35%	76.47%	70.58%	76.47%
Attainment Level	3	3	3	2	2	2
Final Score	3	2.4				
	1.8 (60% of 3)	0.96 (40% of 2.4)				
		2.76				

*(Signature)*  
Subject In-charge

*(Signature)*  
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A. A. College, Manchar



**Rayat Shikshan Sanstha's**  
**Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College**  
**Manchar, Tal. Ambegaon, Dist Pune**

**DEPARTMENT OF ELECTRONICS**  
**ATTAINMENT OF COURSE OUTCOME 2022-23**

**Class: FYBSc**

**Semester: I & II**

<b>Sr. no.</b>	<b>Courses Name</b>	<b>Course Code</b>	<b>Target Score</b>	<b>Attainment Score</b>
1.	Basics of Applied Electronics	EL-111	2.4	2.76
2.	Electronic Devices & Circuits	EL-112	2.4	2.76
3.	Fundamental of Digital Electronics	EL-121	2.4	2.76
4.	Analog & Digital Device Applications	EL-122	2.4	2.76
<b>Final Score of FYBSc</b>				<b>2.76</b>



*[Signature]*  
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 Manchar, Tal. Ambegaon, Dist Pune

**DEPARTMENT OF ELECTRONIC SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME**

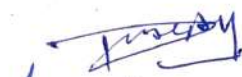
Course Name	: Communication Electronics	Course Code	: EL-231
Class	: SYBSc	Semester	: III
Faculty Name	: Ms. A M Dange	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS & CIE**

	Semester End Examination	CIE				
		Prelims	Home Assignment	Class Test	Seminar 1	Seminar 2
Target	60%	60%	60%	60%	60%	60%
Maximum Score	50	40	10	20	20	10
Minimum Score Set as Basis	30	24	6	8	8	6
No. of Students Attended	12	12	12	12	12	12
No. of Students Attained	12	10	10	10	9	10
Percentage of Students Attained	100%	83.33%	83.33%	83.33%	75%	83.33%
Attainment Level	3	3	3	3	2	3
Final Score	3	$(3+3+3+3+2/5) = 2.8$				
	1.8 (60% of 3)	1.12 (40% of 2.8)				
		<b>2.9</b>				

  
**Subject In-charge**



  
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**Dept. of Electronic Science**  
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Manchar, Tal. Ambegaon, Dist Pune

**DEPARTMENT OF ELECTRONIC SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME**


Course Name	: Communication Electronics	Course Code	: EL-231
Class	: SYBSc	Semester	: III
Faculty Name	: Ms. A M Dange	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS & CIE**

	Semester End Examination	CIE				
		Prelims	Home Assignment	Class Test	Seminar 1	Seminar 2
Target	60%	60%	60%	60%	60%	60%
Maximum Score	50	40	10	20	20	10
Minimum Score Set as Basis	30	24	6	8	8	6
No. of Students Attended	12	12	12	12	12	12
No. of Students Attained	12	10	10	10	9	10
Percentage of Students Attained	100%	83.33%	83.33%	83.33%	75%	83.33%
Attainment Level	3	3	3	3	2	3
Final Score	3	$(3+3+3+3+2/ 5) = 2.8$				
	1.8 (60% of 3)	1.12 (40% of 2.8)				
		2.9				

  
Subject In-charge



  
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**DEPARTMENT OF ELECTRONIC SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME**

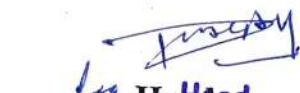
<b>Course Name</b>	: Communication Electronics	<b>Course Code</b>	: EL-231
<b>Class</b>	: SYBSc	<b>Semester</b>	: III
<b>Faculty Name</b>	: Ms. A M Dange	<b>Year</b>	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS & CIE**

	Semester End Examination	CIE				
		Prelims	Home Assignment	Class Test	Seminar 1	Seminar 2
Target	60%	60%	60%	60%	60%	60%
Maximum Score	50	40	10	20	20	10
Minimum Score Set as Basis	30	24	6	8	8	6
No. of Students Attended	12	12	12	12	12	12
No. of Students Attained	12	10	10	10	9	10
Percentage of Students Attained	100%	83.33%	83.33%	83.33%	75%	83.33%
Attainment Level	3	3	3	3	2	3
Final Score	3	$(3+3+3+3+2/ 5) = 2.8$				
	1.8 (60% of 3)	$1.12 (40\% \text{ of } 2.8)$				
		<b>2.9</b>				

  
**Subject In-charge**



  
**Head**  
**Dept. of Electronic Science**  
 A. A. College, Manchar

*Rayat Shikshan Sanstha's*  
**Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College**  
 Manchar, Tal. Ambegaon, Dist Pune

**DEPARTMENT OF ELECTRONIC SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Analog Circuit Design	Course Code	: EL-241
Class	: SYBSc	Semester	: IV
Faculty Name	: Ms. J B Khilari	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS & CIE**

	Semester End Examination	CIE				
		Prelims	Home Assignment	Class Test	Seminar 1	Seminar 2
Target	60%	60%	60%	60%	60%	60%
Maximum Score	50	40	10	20	20	10
Minimum Score Set as Basis	30	24	6	8	8	6
No. of Students Attended	12	12	12	12	12	12
No. of Students Attained	11	10	10	10	9	10
Percentage of Students Attained	90%	83.33%	83.33%	83.33%	75%	83.33%
Attainment Level	3	3	3	3	2	3
Final Score	3	$(3+3+3+3+2/5) = 2.8$				
	1.8 (60% of 3)	$1.12 (40\% \text{ of } 2.8)$				
		<b>2.9</b>				

*T. Schioel*  
 Subject In-charge



*[Signature]*  
 Head  
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**DEPARTMENT OF ELECTRONIC SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME**


Course Name	: Microcontroller & Python Programming	Course Code	: EL-242
Class	: SYBSc	Semester	: IV
Faculty Name	: Ms. A M Dange	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS & CIE**

	Semester End Examination	CIE				
		Prelims	Home Assignment	Class Test	Seminar 1	Seminar 2
Target	60%	60%	60%	60%	60%	60%
Maximum Score	50	40	10	20	20	10
Minimum Score Set as Basis	30	24	6	8	8	6
No. of Students Attended	12	12	12	12	12	12
No. of Students Attained	11	10	10	10	9	10
Percentage of Students Attained	90%	83.33%	83.33%	83.33%	75%	83.33%
Attainment Level	3	3	3	3	2	3
Final Score	3	$(3+3+3+3+2/5) = 2.8$				
	1.8 (60% of 3)	$1.12 (40\% \text{ of } 2.8)$				
		<b>2.9</b>				

  
**Subject In-charge**



  
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**DEPARTMENT OF ELECTRONICS**  
**ATTAINMENT OF COURSE OUTCOME 2022-23**

**Class: SYBSc**

**Semester: IV**

<b>Sr. no.</b>	<b>Courses Name</b>	<b>Course Code</b>	<b>Target Score</b>	<b>Attainment Score</b>
1.	Communication Electronics	EL-231	2.4	2.9
2.	Digital System Design	EL-232	2.4	2.9
3.	Analog Circuit Design	EL-241	2.4	2.9
4.	Microcontroller & Python Programming	EL-242	2.4	2.9
<b>Final Score of SYBSc</b>				<b>2.9</b>



  
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**DEPARTMENT OF ELECTRONIC SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Digital Design Using Verilog	Course Code	: EL-351
Class	: TYBSc	Semester	: V
Faculty Name	: Ms. J B Khilari	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS & CIE**

	Semester End Exam	CIE				
		Prelims	Home Assignment	Unit Test	Seminar 1	Seminar 2
Target	60%	60%	60%	60%	60%	60%
Maximum Score	50	40	10	20	20	10
Minimum Score Set as Basis	30	24	6	8	8	6
No. of Students Attended	16	16	16	16	16	16
No. of Students Attained	16	16	16	14	15	15
Percentage of Students Attained	100%	100%	100%	87.5%	93.75%	93.75%
Attainment Level	3	3	3	3	3	3
Final Score	3	$(3+3+3+2+2/5) = 3$				
	1.8 (60% of 3)	1.2 (40% of 3)				
		3				



*[Signature]*  
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**DEPARTMENT OF ELECTRONIC SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Microcontroller Architecture & Programming	Course Code	: EL-352
Class	: TYBSc	Semester	: V
Faculty Name	: Mr. S A Belage	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS & CIE**

	Semester End Exam	Prelims	Unit Test 2	Unit Test 2	Seminar 1
Target	60%	60%	60%	60%	60%
Maximum Score	50	40	10	20	20
Minimum Score Set as Basis	30	24	6	8	8
No. of Students Attended	16	16	16	16	16
No. of Students Attained	16	16	16	14	15
Percentage of Students Attained	100%	100%	100%	87.5%	93.75%
Attainment Level	3	3	3	3	3
Final Score	3	3			
	1.8 (60% of 3)	1.2			
	3.0				



*[Signature]*  
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**DEPARTMENT OF ELECTRONIC SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Analog Circuit Design & Application	Course Code	: EL-353
Class	: TYBSc	Semester	: V
Faculty Name	: Mr. S A Belage	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS & CIE**

	Semester End Exam	CIE				
		Prelims	Home Assignment	Class Test	Seminar 1	Seminar 2
Target	60%	60%	60%	60%	60%	60%
Maximum Score	50	40	10	20	20	10
Minimum Score Set as Basis	30	24	6	8	8	6
No. of Students Attended	16	16	16	16	16	16
No. of Students Attained	16	16	16	14	15	15
Percentage of Students Attained	100%	100%	100%	87.5%	93.75%	93.75%
Attainment Level	3	3	3	3	3	3
Final Score	3	$(3+3+3+3+3/ 5) = 3$				
	1.8 (60% of 3)	1.2				
		3				



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 for Head  
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**DEPARTMENT OF ELECTRONIC SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Signals & Systems	Course Code	: EL-355
Class	: TYBSc	Semester	: V
Faculty Name	: Ms. A M Dange	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS & CIE**

	Semester End Examination	CIE				
		Prelims	Home Assignment	Class Test	Seminar 2 1	Seminar 2
Target	60%	60%	60%	60%	60%	60%
Maximum Score	50	40	10	20	20	10
Minimum Score Set as Basis	30	24	6	8	8	6
No. of Students Attended	16	16	16	16	16	16
No. of Students Attained	16	16	16	14	15	15
Percentage of Students Attained	100%	100%	100%	87.5%	93.75%	93.75%
Attainment Level	3	3	3	3	3	3
Final Score	3	$(3+3+3+3+3/5)=3$				
	1.8 (60% of 3)	1.2				
		3				



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**DEPARTMENT OF ELECTRONIC SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Optics & Fiber Optics Communication	Course Code	: EL-356
Class	: TYBSc	Semester	: V
Faculty Name	: Ms. J B Khilari	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS & CIE**

	Semester End Examination	CIE				
		Prelims	Home Assignment	Class Test	Seminar 1	Seminar 2
Target	60%	60%	60%	60%	60%	60%
Maximum Score	50	40	10	20	20	10
Minimum Score Set as Basis	30	24	6	8	8	6
No. of Students Attended	16	16	16	16	16	16
No. of Students Attained	16	16	16	14	15	15
Percentage of Students Attained	100%	100%	100%	87.5%	93.75%	93.75%
Attainment Level	3	3	3	3	3	3
Final Score	3	$(3+3+3+3+3/ 5) = 3$				
	1.8 (60% of 3)	1.2				
		3				



*[Signature]*  
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**DEPARTMENT OF ELECTRONIC SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Nanoelectronics	Course Code	: EL-354
Class	: TYBSc	Semester	: V
Faculty Name	: Ms. J B Khilari	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS & CIE**

	Semester End Examination	CIE				
		Prelims	Home Assignment	Class Test	Seminar 1	Seminar 2
Target	60%	60%	60%	60%	60%	60%
Maximum Score	50	40	10	20	20	10
Minimum Score Set as Basis	30	24	6	8	8	6
No. of Students Attended	16	16	16	16	16	16
No. of Students Attained	16	16	16	14	15	15
Percentage of Students Attained	100%	100%	100%	87.5%	93.75%	93.75%
Attainment Level	3	3	3	3	3	3
Final Score	3	$(3+3+3+2+2/5) = 3$				
	1.8 (60% of 3)	$1.2 (40\% \text{ of } 2.6)$				
		<b>3</b>				



*[Signature]*  
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**Dept. of Electronic Science**  
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**DEPARTMENT OF ELECTRONIC SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Internet of Things & Applications	Course Code	: ELSEC-352
Class	: TYBSc	Semester	: V
Faculty Name	: Ms. A M Dange	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS & CIE**

	Semester End Examination	CIE				
		Prelims	Home Assignment	Class Test	Seminar 1	Seminar 2
Target	60%	60%	60%	60%	60%	60%
Maximum Score	50	40	10	20	20	10
Minimum Score Set as Basis	30	24	6	8	8	6
No. of Students Attended	16	16	16	16	16	16
No. of Students Attained	16	16	16	14	15	15
Percentage of Students Attained	100%	100%	100%	87.5%	93.75%	93.75%
Attainment Level	3	3	3	3	3	3
Final Score	3	$(3+3+3+3+3/ 5) = 3$				
	1.8 (60% of 3)	1.2				
		3				



*[Handwritten Signature]*  
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**DEPARTMENT OF ELECTRONIC SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Electronic Design Automation Tools	Course Code	: ELSEC-351
Class	: TYBSc	Semester	: V
Faculty Name	: Ms. J B Khilari	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS & CIE**

	Semester End Examination	CIE				
		Prelims	Home Assignment	Class Test	Seminar 1	Seminar 2
Target	60%	60%	60%	60%	60%	60%
Maximum Score	50	40	10	20	20	10
Minimum Score Set as Basis	30	24	6	8	8	6
No. of Students Attended	16	16	16	16	16	16
No. of Students Attained	16	16	16	14	15	15
Percentage of Students Attained	100%	100%	100%	87.5%	93.75%	93.75%
Attainment Level	3	3	3	3	3	3
Final Score	3	$(3+3+3+3+3/ 5) = 3$				
	1.8 (60% of 3)	1.2				
		3				



*[Signature]*  
**Head**  
**Dept. of Electronic Science**  
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 Manchar, Tal. Ambegaon, Dist Pune

**DEPARTMENT OF ELECTRONIC SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Modern Communication System	Course Code	: EL-361
Class	: TYBSc	Semester	: VI
Faculty Name	: Ms. A M Dange	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS & CIE**

	Semester End Examination	CIE				
		Prelims	Home Assignment	Class Test	Seminar 1	Seminar 2
Target	60%	60%	60%	60%	60%	60%
Maximum Score	50	40	10	20	20	10
Minimum Score Set as Basis	30	24	6	8	8	6
No. of Students Attended	16	16	16	16	16	16
No. of Students Attained	16	16	16	14	15	15
Percentage of Students Attained	100%	100%	100%	87.5%	93.75%	93.75%
Attainment Level	3	3	3	3	3	3
Final Score	3	$(3+3+3+3+3/5) = 3$				
	1.8 (60% of 3)	$1.2 (40\% \text{ of } 2.6)$				
		3				

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 Head

**Dept. of Electronic Science**  
 A. A. College Manchar



**DEPARTMENT OF ELECTRONIC SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Embedded System Design	Course Code	: EL-362
Class	: TYBSc	Semester	: VI
Faculty Name	: Mr. S A Belage	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS & CIE**

	Semester End Examination	CIE				
		Prelims	Home Assignment	Class Test	Seminar 1	Seminar 2
Target	60%	60%	60%	60%	60%	60%
Maximum Score	50	40	10	20	20	10
Minimum Score Set as Basis	30	24	6	8	8	6
No. of Students Attended	16	16	16	16	16	16
No. of Students Attained	16	16	16	14	15	15
Percentage of Students Attained	100%	100%	100%	87.5%	93.75%	93.75%
Attainment Level	3	3	3	3	3	3
Final Score	3	$(3+3+3+3+3+3) = 3$				
	1.8 (60% of 3)	1.2				
		3				



*[Signature]*  
 Head  
 Dept. of Electronic Science  
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DEPARTMENT OF ELECTRONIC SCIENCE  
ATTAINMENT OF COURSE OUTCOME

Course Name	: Industrial Electronics	Course Code	: EL-363
Class	: TYBSc	Semester	: VI
Faculty Name	: Ms. J B Khilari	Year	: 2022-23

CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS & CIE

	Semester End Examination	CIE				
		Prelims	Home Assignment	Class Test	Seminar 1	Seminar 2
Target	60%	60%	60%	60%	60%	60%
Maximum Score	50	40	10	20	20	10
Minimum Score Set as Basis	30	24	6	8	8	6
No. of Students Attended	12	12	12	12	12	11
No. of Students Attained	12	12	12	11	10	7
Percentage of Students Attained	100%	86.88%	84.62%	92.86%	71.43%	77.78%
Attainment Level	3	3	3	3	2	2
Final Score	3	$(3+3+3+3+3/ 5) = 3$				
	1.8 (60% of 3)	1.2				
		3				



2022-23 DOES

*[Handwritten signature]*  
Principal, Annasaheb Awate College Manchar

*Rayat Shikshan Sanstha's*  
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 Manchar, Tal. Ambegaon, Dist Pune

**DEPARTMENT OF ELECTRONIC SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Manufacturing Processes for Electronics	Course Code	: EL-364
Class	: TYBSc	Semester	: VI
Faculty Name	: Ms. J B Khilari	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS & CIE**

	Semester End Examination	CIE				
		Prelims	Home Assignment	Class Test	Seminar 1	Seminar 2
Target	60%	60%	60%	60%	60%	60%
Maximum Score	50	40	10	20	20	10
Minimum Score Set as Basis	30	24	6	8	8	6
No. of Students Attended	16	16	16	16	16	16
No. of Students Attained	16	16	16	14	15	15
Percentage of Students Attained	100%	100%	100%	87.5%	93.75%	93.75%
Attainment Level	3	3	3	3	3	3
Final Score	3	$(3+3+3+3+3/ 5) = 3$				
	1.8 (60% of 3)	1.2				
		3				



*[Signature]*  
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**DEPARTMENT OF ELECTRONIC SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Process Control System	Course Code	: EL-365
Class	: TYBSc	Semester	: VI
Faculty Name	: Ms. S A Belage	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS & CIE**

	Semester End Examination	CIE				
		Prelims	Home Assignment	Class Test	Seminar 1	Seminar 2
Target	60%	60%	60%	60%	60%	60%
Maximum Score	50	40	10	20	20	10
Minimum Score Set as Basis	30	24	6	8	8	6
No. of Students Attended	16	16	16	16	16	16
No. of Students Attained	16	16	16	14	15	15
Percentage of Students Attained	100%	100%	100%	87.5%	93.75%	93.75%
Attainment Level	3	3	3	3	3	3
Final Score	3	$(3+3+3+3+3/5) = 3$				
	1.8 (60% of 3)	1.2				
		3				



*[Signature]*  
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2022-23 DOES



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**DEPARTMENT OF ELECTRONIC SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Sensors and Systems	Course Code	: EL-366
Class	: TYBSc	Semester	: VI
Faculty Name	: Ms. A M Dange	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS & CIE**

	Semester End Examination	CIE				
		Prelims	Home Assignment	Class Test	Seminar 1	Seminar 2
Target	60%	60%	60%	60%	60%	60%
Maximum Score	50	40	10	20	20	10
Minimum Score Set as Basis	30	24	6	8	8	6
No. of Students Attended	16	16	16	16	16	16
No. of Students Attained	16	16	16	14	15	15
Percentage of Students Attained	100%	100%	100%	87.5%	93.75%	93.75%
Attainment Level	3	3	3	3	3	3
Final Score	3	$(3+3+3+3+3/ 5) = 3$				
	1.8 (60% of 3)	1.2				
		<b>3</b>				





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**DEPARTMENT OF ELECTRONIC SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Design of Printed Circuit Boards	Course Code	: ELSEC-361
Class	: TYBSc	Semester	: VI
Faculty Name	: Ms. J B Khilari	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS & CIE**

	Semester End Examination	CIE				
		Prelims	Home Assignment	Class Test	Seminar 1	Seminar 2
Target	60%	60%	60%	60%	60%	60%
Maximum Score	50	40	10	20	20	10
Minimum Score Set as Basis	30	24	6	8	8	6
No. of Students Attended	16	16	16	16	16	16
No. of Students Attained	16	16	16	14	15	15
Percentage of Students Attained	100%	100%	100%	87.5%	93.75%	93.75%
Attainment Level	3	3	3	3	3	3
Final Score	3	$(3+3+3+3+3/ 5) = 3$				
	1.8 (60% of 3)	1.2				
		3				



*J. B. Khilari*  
 Head  
 Dept. of Electronic Science  
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2022-23 DOES

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 Manchar, Tal. Ambegaon, Dist Pune

**DEPARTMENT OF ELECTRONIC SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME**

Course Name	: Mobile Application Development	Course Code	: ELSEC-362
Class	: TYBSc	Semester	: VI
Faculty Name	: Ms. A M Dange	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS & CIE**

	Semester End Examination	CIE				
		Prelims	Home Assignment	Class Test	Seminar 1	Seminar 2
Target	60%	60%	60%	60%	60%	60%
Maximum Score	50	40	10	20	20	10
Minimum Score Set as Basis	30	24	6	8	8	6
No. of Students Attended	16	16	16	16	16	16
No. of Students Attained	16	16	16	14	15	15
Percentage of Students Attained	100%	100%	100%	87.5%	93.75%	93.75%
Attainment Level	3	3	3	3	3	3
Final Score	3	$(3+3+3+3+3/5) = 3$				
	1.8 (60% of 3)	1.2				
		<del>3</del> 3				



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**DEPARTMENT OF ELECTRONIC SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME 2022-23**

**Class: TYBSc**

**Semester: V**

Sr. no.	Courses Name	Course Code	Target Score	Attainment Score
1	Digital Design Using Verilog	EL-351	2.4	3.0
2	Microcontroller Architecture & Programming	EL-352	2.4	3.0
3	Analog Circuit Design & Application	EL-353	2.4	3.0
4	Nanoelectronics	EL-354	2.4	3.0
5	Signals & Systems	EL-355	2.4	3.0
6	Optics & Fiber Optics Communication	EL-356	2.4	3.0
7	Electronic Design Automation Tools	ELSEC-351	2.4	3.0
8	Internet of Things and Applications	ELSEC-352	2.4	3.0
<b>Final Score of TYBSc</b>				<b>3.0</b>



*(Signature)*  
**Head**  
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 A.A. College, Manchar



2022-23 DOES

*Rajat Shikshan Sanstha's*  
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Manchar, Tal. Ambegaon, Dist Pune

**DEPARTMENT OF ELECTRONIC SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME 2022-23**

**Class: TYBSc**

**Semester: VI**

Sr. no.	Courses Name	Course Code	Target Score	Attainment Score
1.	Modern Communication System	EL-361	2.4	3.0
2.	Embedded System Design using Microcontrollers	EL-362	2.4	3.0
3.	Industrial Electronics	EL-363	2.4	3.0
4.	Manufacturing Processes for Electronics	EL-364	2.4	3.0
5.	Process Control Systems	EL-365	2.4	3.0
6.	Sensors and Systems	EL-366	2.4	3.0
7.	Design of Printed Circuit Boards	ELSEC-361	2.4	3.0
8.	Mobile Application Development	ELSEC-362	2.4	3.0
<b>Final Score of TYBSc</b>				<b>3.0</b>



*Deliver*  
Head  
Dept of Electronic Science  
A. A. College, Manchar



2022-23 DOES

*Rayat Shikshan Sanstha's*

**Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist Pune**

**DEPARTMENT OF ELECTRONIC SCIENCE  
ATTAINMENT OF PROGRAMME OUTCOME AND  
PROGRAMME SPECIFIC OUTCOMES**

**Year: 2022-23**

Sr. No.	Course	CO Attainment Score (Final)	PSO Attainment
1.	FYBSc	3.00	3+3+3/3
2.	SYBSc	3.00	= 3
3.	TYBSc	3.00	



  
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A. A. College, Manchar

Attainment 2022-23 T.Y.B.Sc.

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Manchar, Tal. Ambegaon, Dist Pune

**DEPARTMENT OF HISTORY**  
**ATTAINMENT OF COURSE OUTCOME**  
**2022-23**

Course Name	Early India: From Pre-History to The Age of Mauryas	Course Code	: 11171
Class	: FYBA	Semester	: I
Faculty Name	: Mr. Pardhi R.P.	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	SEE	CIE	
		Home Assignment	Unit Test
Target	50%	60%	60%
Maximum Score	70	10	20
Minimum Score Set as Basis	35	6	12
No. of Students Attended	118	118	118
No. of Students Attained	64	76	72
Percentage of Students Attained	54.23%	64.40%	61.08%
Attainment Level	2	3	3
Final Score	2	3+3/2=3	
	1.2 (60% of 2)	1.2 (40% of 3)	
	2.4		



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**DEPARTMENT OF HISTORY**  
**ATTAINMENT OF COURSE OUTCOME**  
**2022-23**

Course Name	Early India: Post Mauryan Age To the Rashtrakutas	Course Code	: 11172
Class	: FYBA	Semester	: II
Faculty Name	: Mr. Pardhi R.P.	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	SEE	CIE	
		Home Assignment	Unit Test
Target	50%	60%	60%
Maximum Score	70	10	20
Minimum Score Set as Basis	35	6	12
No. of Students Attended	118	118	118
No. of Students Attained	80	66	76
Percentage of Students Attained	67.79%	55.93%	64.40%
Attainment Level	3	2	3
Final Score	3	2+3/2=2.5	
	1.8 (60% of 3)	1 (40% of 2.5)	
	2.8		



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**DEPARTMENT OF HISTORY**  
**ATTAINMENT OF COURSE OUTCOME**  
**2022-23**

Course Name	Glimpses of the Modern World Part I	Course Code	: 23172
Class	: SYBA	Semester	: III
Faculty Name	: Prof. Shrishet N. M.	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	SEE	CIE	
		Home Assignment	Unit Test
Target	50%	60%	60%
Maximum Score	70	10	20
Minimum Score Set as Basis	35	6	12
No. of Students Attended	14	14	14
No. of Students Attained	08	12	12
Percentage of Students Attained	57.14	85.71%	85.71%
Attainment Level	2	3	3
Final Score	2	3+3/2=3	
	1.2 (60% of 2)	1.2 (40% of 3)	
	2.4		



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**DEPARTMENT OF HISTORY**  
**ATTAINMENT OF COURSE OUTCOME**  
**2022-23**

<b>Course Name</b>	<b>Medieval India- Sultanate Period</b>	<b>Course Code</b>	<b>: 23171</b>
<b>Class</b>	<b>: SYBA</b>	<b>Semester</b>	<b>: III</b>
<b>Faculty Name</b>	<b>: Prof. Shrishet N. M.</b>	<b>Year</b>	<b>: 2022-23</b>

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	SEE	CIE	
		Home Assignment	Unit Test
<b>Target</b>	50%	60%	60%
<b>Maximum Score</b>	70	10	20
<b>Minimum Score Set as Basis</b>	35	6	12
<b>No. of Students Attended</b>	14	14	14
<b>No. of Students Attained</b>	10	12	10
<b>Percentage of Students Attained</b>	71.42	85.71%	71.42%
<b>Attainment Level</b>	3	3	3
<b>Final Score</b>	3	3+3/2=3	
	1.8 (60% of 3)	1.2 (40% of 3)	
	3		



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**DEPARTMENT OF HISTORY**  
**ATTAINMENT OF COURSE OUTCOME**  
**2022-23**

Course Name	History of the Marathas (1630-1707)	Course Code	: 23174
Class	: SYBA	Semester	: III
Faculty Name	: Mr. Pardhi R.P.	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	SEE	CIE	
		Home Assignment	Unit Test
Target	50%	60%	60%
Maximum Score	70	10	20
Minimum Score Set as Basis	35	6	12
No. of Students Attended	46	46	46
No. of Students Attained	27	41	40
Percentage of Students Attained	58.69%	89.13%	86.95%
Attainment Level	2	3	3
Final Score	2	3+3/2=3	
	1.2 (60% of 2)	1.2 (40% of 3)	
	2.4		



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**DEPARTMENT OF HISTORY**  
**ATTAINMENT OF COURSE OUTCOME**  
**2022-23**

<b>Course Name</b>	Tourism Management	<b>Course Code</b>	: 23178
<b>Class</b>	: SYBA	<b>Semester</b>	: III
<b>Faculty Name</b>	: Mr. Pardhi R.P.	<b>Year</b>	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	SEE	CIE	
		Home Assignment	Unit Test
<b>Target</b>	50%	60%	60%
<b>Maximum Score</b>	25	10	15
<b>Minimum Score Set as Basis</b>	12	6	9
<b>No. of Students Attended</b>	14	14	14
<b>No. of Students Attained</b>	10	12	13
<b>Percentage of Students Attained</b>	71.42%	85.71%	92.85%
<b>Attainment Level</b>	3	3	3
<b>Final Score</b>	3	3+3/2=3	
	1.8 (60% of 3)	1.2 (40% of 3)	
		3	



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**DEPARTMENT OF HISTORY**  
**ATTAINMENT OF COURSE OUTCOME**  
**2022-23**

<b>Course Name</b>	Glimpses of the Modern World Part II	<b>Course Code</b>	: 24172
<b>Class</b>	: SYBA	<b>Semester</b>	: IV
<b>Faculty Name</b>	: Prof. Shrishet N. M.	<b>Year</b>	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	SEE	CIE	
		Home Assignment	Unit Test
<b>Target</b>	50%	60%	60%
<b>Maximum Score</b>	70	10	20
<b>Minimum Score Set as Basis</b>	35	6	12
<b>No. of Students Attended</b>	14	14	14
<b>No. of Students Attained</b>	09	13	11
<b>Percentage of Students Attained</b>	64.28%	92.85%	78.57%
<b>Attainment Level</b>	3	3	3
<b>Final Score</b>	3	2+3/2=2.5	
	1.8 (60% of 3)	1 (40% of 2.5)	
	2.8		



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**DEPARTMENT OF HISTORY**  
**ATTAINMENT OF COURSE OUTCOME**  
**2022-23**

Course Name	Medieval India- Mughal Period	Course Code	: 24171
Class	: SYBA	Semester	: IV
Faculty Name	: Prof. Shrishet N. M.	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	SEE	CIE	
		Home Assignment	Unit Test
Target	50%	60%	60%
Maximum Score	70	10	20
Minimum Score Set as Basis	35	6	12
No. of Students Attended	14	14	14
No. of Students Attained	8	13	10
Percentage of Students Attained	57.14%	92.85%	71.42%
Attainment Level	2	3	3
Final Score	2	3+3/2=3	
	1.2 (60% of 2)	1.2 (40% of 3)	
	2.4		



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**DEPARTMENT OF HISTORY**  
**ATTAINMENT OF COURSE OUTCOME**  
**2022-23**

Course Name	History of the Marathas (1707-1818)	Course Code	: 24174
Class	: SYBA	Semester	: IV
Faculty Name	: Mr. Pardhi R.P.	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	SEE	CIE	
		Home Assignment	Unit Test
Target	50%	60%	60%
Maximum Score	70	10	20
Minimum Score Set as Basis	35	6	12
No. of Students Attended	46	46	46
No. of Students Attained	27	41	32
Percentage of Students Attained	58.69%	89.13%	69.56%
Attainment Level	2	3	3
Final Score	2	3+3/2=3	
	1.2 (60% of 2)	1.2 (40% of 3)	
	2.4		



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**DEPARTMENT OF HISTORY**  
**ATTAINMENT OF COURSE OUTCOME**  
 2022-23

Course Name	Travel Agency & Tour Business	Course Code	: 24178
Class	: SYBA	Semester	: IV
Faculty Name	: Mr. Pardhi R.P.	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	SEE	CIE	
		Home Assignment	Unit Test
Target	50%	60%	60%
Maximum Score	25	10	20
Minimum Score Set as Basis	12	6	12
No. of Students Attended	14	14	14
No. of Students Attained	12	13	07
Percentage of Students Attained	85.71%	92.85%	50.00%
Attainment Level	3	3	2
Final Score	3	3+2/2=2.5	
	1.8 (60% of 3)	1(40% of 2.5)	
	2.8		



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**DEPARTMENT OF HISTORY**  
**ATTAINMENT OF COURSE OUTCOME 2022-23**

Sr.No.	Subject	Semester	Subject Name	Subject Code	Target Score	Attainment Score
F.Y.B.A.	G-1	I Sem.	Early India: From Pre-History to The Age of Mauryas	11171	2.4	2.4
F.Y.B.A.		II Sem	Early India: Post Mauryan Age To the Rashtrakutas	11172	2.4	2.8
S.Y.B.A G-2	CC-1	Sem III	History of the Marathas (1630-1707)	23174	2.4	2.4
S.Y.B.A S-1	(DSE-1A)		Medieval India- Sultanate Period	23171	2.4	3.0
S.Y.B.A S-2	(DSE-2A)		Glimpses of the Modern World Part I	23172	2.4	2.4
S.Y.B.A Skill	(SEC-1A) (2)		Tourism Management	23178	2.4	3.0
S.Y.B.A G-2	CC-2	Sem IV	History of the Marathas (1707-1818)	24174	2.4	2.4
S.Y.B.A S-1	(DSE-1B)		Medieval India- Mughal Period	24171	2.4	2.4
S.Y.B.A S-2	(DSE-1B)		Glimpses of the Modern World Part II	24172	2.4	2.8
S.Y.B.A Skill	(SEC -2B) (2)		Travel Agency & Tour Business	24178	2.4	2.8
T.Y.B.A G-3	CC-3	Sem V	Indian National Movement (1885-1947)	35174	2.4	2.6
T.Y.B.A S-3	(DSE-3 C)		Introduction to Historiography	35171	2.4	2.4
T.Y.B.A S-4	(DSE-4 D)		Maharashtra in the 19 <sup>th</sup> Century	35172	2.4	2.6
T.Y.B.A Skill	(SEC -2B) (2)		Museology	35178	2.4	3.0
T.Y.B.A G-3	CC-4 (3)	Sem VI	India After Independence- (1947-1991)	36174	2.4	2.8
T.Y.B.A S-3	(DSE-3 C)		Applied History	36171	2.4	3.0
T.Y.B.A S-4	(DSE-4 D)		Maharashtra in the 20 <sup>th</sup> Century	36172	2.4	2.4
T.Y.B.A Skill	(SEC -2D) (2)		Numismatics	36178	2.4	3.0
<b>Final Score for B.A. Hist.</b>					<b>48.2÷18=2.67</b>	



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**DEPARTMENT OF HISTORY**  
**ATTAINMENT OF COURSE OUTCOME**

**2022-23**

Course Name	: Introduction to Historiography	Course Code	35171
Class	: TYBA	Semester	V
Faculty Name	: Prof. Shrishet N. M.	Year	2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	SEE	CIE	
		Home Assignment	Unit Test
Target	50%	60%	60%
Maximum Score	70	10	20
Minimum Score Set as Basis	35	6	12
No. of Students Attended	10	10	10
No. of Students Attained	6	10	10
Percentage of Students Attained	60%	100%	100%
Attainment Level	2	3	3
Final Score	2	3+3/2=3	
	1.2 (60% of 2)	1.2(40% of 3)	
	2.4		



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Manchar, Tal. Ambegaon, Dist Pune

**DEPARTMENT OF HISTORY**  
**ATTAINMENT OF COURSE OUTCOME**

2022-23

Course Name	: Maharashtra in the 19 <sup>th</sup> Century	Course Code	: 35172
Class	: TYBA	Semester	: V
Faculty Name	: Prof. Shrishet N. M.	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	SEE	CIE	
		Home Assignment	Unit Test
Target	50%	60%	60%
Maximum Score	70	10	20
Minimum Score Set as Basis	35	6	12
No. of Students Attended	10	10	10
No. of Students Attained	07	10	05
Percentage of Students Attained	70.00%	100%	50.00%
Attainment Level	3	2	2
Final Score	3	2+2/2=2	
	1.8 (60% of 3)	0.8 (40% of 2)	
	2.6		



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**DEPARTMENT OF HISTORY**  
**ATTAINMENT OF COURSE OUTCOME**  
**2022-23**

Course Name	Indian National Movement (1885-1947)	Course Code	: 35174
Class	: TYBA	Semester	: V
Faculty Name	: Mr. Pardhi R.P.	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	SEE	CIE	
		Home Assignment	Unit Test
Target	50%	60%	60%
Maximum Score	70	10	20
Minimum Score Set as Basis	35	6	12
No. of Students Attended	32	32	32
No. of Students Attained	28	31	17
Percentage of Students Attained	87.05	96.87	53.12
Attainment Level	3	3	2
Final Score	3	2+2/2=2	
	1.8 (60% of 3)	0.8 (40% of 2)	
	2.6		



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**DEPARTMENT OF HISTORY**  
**ATTAINMENT OF COURSE OUTCOME**

**2022-23**

<b>Course Name</b>	<b>: Museology</b>	<b>Course Code</b>	<b>: 35178</b>
<b>Class</b>	<b>: TYBA</b>	<b>Semester</b>	<b>: V</b>
<b>Faculty Name</b>	<b>: Mr. Pardhi R.P.</b>	<b>Year</b>	<b>: 2022-23</b>

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	SEE	CIE	
		Home Assignment	Unit Test
<b>Target</b>	50%	60%	60%
<b>Maximum Score</b>	25	10	15
<b>Minimum Score Set as Basis</b>	12	6	9
<b>No. of Students Attended</b>	10	10	10
<b>No. of Students Attained</b>	8	10	10
<b>Percentage of Students Attained</b>	80.00	100%	100%
<b>Attainment Level</b>	3	3	3
<b>Final Score</b>	3	3+3/2=3	
	1.8 (60% of 3)	1.2 (40% of 3)	
	3		



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**DEPARTMENT OF HISTORY**  
**ATTAINMENT OF COURSE OUTCOME**

**2022-23**

<b>Course Name</b>	<b>: Applied History</b>	<b>Course Code</b>	<b>: 36171</b>
<b>Class</b>	<b>: TYBA</b>	<b>Semester</b>	<b>: VI</b>
<b>Faculty Name</b>	<b>: Mr. Pardhi R.P.</b>	<b>Year</b>	<b>: 2022-23</b>

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	SEE	CIE	
		Home Assignment	Unit Test
<b>Target</b>	50%	60%	60%
<b>Maximum Score</b>	70	10	20
<b>Minimum Score Set as Basis</b>	35	6	12
<b>No. of Students Attended</b>	10	10	10
<b>No. of Students Attained</b>	07	10	07
<b>Percentage of Students Attained</b>	70.00%	100%	70.00%
<b>Attainment Level</b>	3	3	3
<b>Final Score</b>	3	3+3/2=3	
	1.8 (60% of 3)	1.2 (40% of 3)	
	3		



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**DEPARTMENT OF HISTORY**  
**ATTAINMENT OF COURSE OUTCOME**

2022-23

Course Name	: Maharashtra in the 20 <sup>th</sup> Century	Course Code	: 36172
Class	: TYBA	Semester	: VI
Faculty Name	: Prof. Shrishet N. M.	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	SEE	CIE	
		Home Assignment	Unit Test
Target	50%	60%	60%
Maximum Score	70	10	20
Minimum Score Set as Basis	35	6	12
No. of Students Attended	10	10	10
No. of Students Attained	05	08	09
Percentage of Students Attained	50.00%	80.00%	90.00%
Attainment Level	2	3	3
Final Score	2	3+3/2=3	
	1.2 (60% of 2)	1.2 (40% of 3)	
	2.4		



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**DEPARTMENT OF HISTORY**  
**ATTAINMENT OF COURSE OUTCOME**  
**2022-23**

Course Name	India After Independence- (1947-1991)	Course Code	: 36174
Class	: TYBA	Semester	: VI
Faculty Name	: Mr. Pardhi R.P.	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	SEE	CIE	
		Home Assignment	Unit Test
Target	50%	60%	60%
Maximum Score	70	10	20
Minimum Score Set as Basis	35	6	12
No. of Students Attended	32	32	32
No. of Students Attained	23	28	18
Percentage of Students Attained	71.87%	87.5%	56.25%
Attainment Level	3	3	2
Final Score	3	3+2/2=2.5	
	1.8 (60% of 3)	1 (40% of 2.5)	
	2.8		



*R. Pardhi*  
 Head,  
 Department of History  
 Annasaheb Awate College, Manchar (Pune)

*Rayat Shikshan Sanstha's*

Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist Pune

**DEPARTMENT OF HISTORY  
ATTAINMENT OF COURSE OUTCOME**

**2022-23**

Course Name	: Numismatics	Course Code	: 36178
Class	: TYBA	Semester	: VI
Faculty Name	: Mr. Pardhi R.P.	Year	: 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	SEE	CIE	
		Home Assignment	Unit Test
Target	50%	60%	60%
Maximum Score	25	10	20
Minimum Score Set as Basis.	12	6	12
No. of Students Attended	10	10	10
No. of Students Attained	10	09	07
Percentage of Students Attained	100%	90.00%	70.00%
Attainment Level	3	3	3
Final Score	3	3+3/2=3	
	1.8 (60% of 3)	1.2 (40% of 3)	
		3	



*R. Pardhi*  
Head,  
Department of History  
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**DEPARTMENT OF POLITICAL SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME 2022-23**

**Course Name : Introduction to Indian Constitution**

**Course Code : 11161**

**Class : FYBA**


**Semester : I**

**Faculty Name : Mr. T. Y. Randive**

**Year : 2022-23**

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Annual End Exam					
		Internal Exam	Home Assignment	Unit Test	Unit Test (Google form)	CIE
<b>Target</b>	50%	50%	60%	-	-	-
<b>Maximum Score</b>	70	30	10	-	-	-
<b>Minimum Score Set as Basis</b>	35	15	06	-	--	-
<b>No. of Students Attended</b>	70	70	70	-	-	-
<b>No. of Students Attained</b>	24	52	62	-	-	-
<b>Percentage of Students Attained</b>	34.28%	74.28%	88.57%	-	-	-
<b>Attainment Level</b>	1	2	3		-	-
<b>Final Score</b>	1	(2+3/2)=2.5				
	0.6(60% of 1)	1(40% of 2.5)				
	1.6					

  
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**DEPARTMENT OF POLITICAL SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME 2022-23**

**Course Name** : Introduction to Indian Constitution

**Course Code** : 11162

**Class** : FYBA

**Semester** : II

**Faculty Name** : Mr. T. Y. Randive

**Year** : 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Sem End Exam	Assessment Components				CIE
		Internal Exam	Home Assignment	Unit Test	Unit Test (Google form)	
Target	50%	50%	60%	-	-	-
Maximum Score	70	20	10	-	-	-
Minimum Score Set as Basis	35	10	06	-	-	-
No. of Students Attended	70	70	70	-	-	-
No. of Students Attained	11	59	54	-	-	-
Percentage of Students Attained	15.71%	84.28%	77.14%	-	-	-
Attainment Level	1	3	3		-	-
Final Score	1	(3+3/2)=3				
	0.6(60% of 1)	1.2(40% of 3)				
				1.8		



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**DEPARTMENT OF POLITICAL SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME 2022-23**

**Course Name** : Western Political Thought  
**Class** : SYBA  
**Faculty Name** : Mr. T. Y. Randive

**Course Code** : 23161  
**Semester** : III  
**Year** : 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Annual End Exam	CIE				
		Internal Exam	Home Assignment	Unit Test	Unit Test (Google form)	Seminar
Target	50%	50%	60%	-	-	-
Maximum Score	70	20	10	-	-	-
Minimum Score Set as Basis	35	10	06	-	--	-
No. of Students Attended	11	11	11	-	--	-
No. of Students Attained	3	6	11	-	--	-
Percentage of Students Attained	27.27%	54.54%	100%	-	--	-
Attainment Level	1	2	3	(2+3/2)=2.5		
Final Score	1	1(40% of 2.5)				
	0.6(60% of 1)	1.6				

  
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**DEPARTMENT OF POLITICAL SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME 2022-23**

Course Name : Western Political Thought  
Class : SYBA  
Faculty Name : Mr. T. Y. Randive

Course Code : 24161  
Semester : IV  
Year : 202-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Annual End Exam	CIE				
		Internal Exam	Home Assignment	Unit Test	Unit Test (Google form)	Seminar
Target	50%	50%	60%	-	-	-
Maximum Score	70	20	10	-	-	-
Minimum Score Set as Basis	35	10	06	-	--	-
No. of Students Attended	11	11	11	-	--	-
No. of Students Attained	5	8	10	-	--	-
Percentage of Students Attained	45.45%	72.72%	90.90	-	--	-
Attainment Level	1	2	3	-	--	-
Final Score	1	(2+3/2)=2.5				
	0.6(60% of 1)	1(40% of 2.5)				
	<b>1.6</b>					

  
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**DEPARTMENT OF POLITICAL SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME 2022-23**

**Course Name** : Political Journalism  
**Class** : SYBA  
**Faculty Name** : Dr. V. D. Sadaphal

**Course Code** : 23162  
**Semester** : III  
**Year** : 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Annual End Exam	CIE				
		Internal Exam	Home Assignment	Unit Test	Unit Test (Google form)	Seminar
<b>Target</b>	50%	50%	60%	-	-	-
<b>Maximum Score</b>	70	30	10	-	-	-
<b>Minimum Score Set as Basis</b>	35	15	06	-	--	-
<b>No. of Students Attended</b>	11	11	11	-	--	-
<b>No. of Students Attained</b>	6	11	11	-	--	-
<b>Percentage of Students Attained</b>	54.54%	100%	100%	-	--	-
<b>Attainment Level</b>	2	3	3	-	--	-
<b>Final Score</b>	2	(3+3/2)=3				
	1.2(60% of 1)	1.2(40% of 3)				
	2.4					

  
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**DEPARTMENT OF POLITICAL SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME 2022-23**

**Course Name** : Political Journalism

**Course Code** : 24162

**Class** : SYBA

**Semester** : IV

**Faculty Name** : Dr. V. D. Sadaphal

**Year** : 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Annual End Exam	CIE				
		Internal Exam	Home Assignment	Unit Test	Unit Test (Google form)	Seminar
Target	50%	50%	60%	-	-	-
Maximum Score	80	20	10	-	-	-
Minimum Score Set as Basis	40	10	06	-	--	-
No. of Students Attended	11	11	11	-	--	-
No. of Students Attained	8	7	9	-	--	-
Percentage of Students Attained	72.72%	63.63%	81.81%	-	--	-
Attainment Level	2	2	3	-	--	-
Final Score	2	(2+3/2)=2.5				
	1.2(60% of 1)	1(40% of 2.5)				
	2.2					

  
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**DEPARTMENT OF POLITICAL SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME 2022-23**

**Course Name** : An Introduction to Political Ideology

**Course Code** : 23163

**Class** : SYBA

**Semester** : III

**Faculty Name** : Mr. T. Y. Randive

**Year** : 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Annual End Exam	CIE				
		Internal Exam	Home Assignment	Unit Test	Unit Test (Google form)	Seminar
<b>Target</b>	50%	50%	60%	-	-	-
<b>Maximum Score</b>	70	30	10	-	-	-
<b>Minimum Score Set as Basis</b>	35	15	06	-	--	-
<b>No. of Students Attended</b>	30	30	30	-	--	-
<b>No. of Students Attained</b>	17	21	28	-	--	-
<b>Percentage of Students Attained</b>	56.66%	70%	93.33%	-	--	-
<b>Attainment Level</b>	2	3	3	-	--	-
<b>Final Score</b>	2	(3+3/2)=3				
	1.2(60% of 1)	1.2(40% of 3)				
		<b>2.4</b>				

  
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**DEPARTMENT OF POLITICAL SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME 2022-23**

**Course Name** : An Introduction to Political Ideology

**Course Code** : 24164

**Class** : SYBA

**Semester** : IV

**Faculty Name** : Mr. T. Y. Randive

**Year** : 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Annual End Exam	CIE				
		Internal Exam	Home Assignment	Unit Test	Unit Test (Google form)	Seminar
<b>Target</b>	50%	50%	60%	-	-	-
<b>Maximum Score</b>	70	30	10	-	-	-
<b>Minimum Score Set as Basis</b>	35	15	06	-	--	-
<b>No. of Students Attended</b>	30	30	30	-	--	-
<b>No. of Students Attained</b>	15	28	29	-	--	-
<b>Percentage of Students Attained</b>	50%	93.33%	96.66%	-	--	-
<b>Attainment Level</b>	2	3	3	-	--	-
<b>Final Score</b>	2	(3+3/2)=3				
	1.2(60% of 1)	1.2(40% of 3)				
	2.4					

  
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**Dept. of Politics**  
**Head**  
**Dept. of Politics**  
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**A. A. College M...**

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**DEPARTMENT OF POLITICAL SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME 2022-23**

**Course Name : Public Administration**

**Course Code : 35161**

**Class : TYBA**


**Semester : V**

**Faculty Name : Dr. V. D. Sadaphal**

**: 2022-23**

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Annual End Exam	Internal Exam	Home Assignment
	Target	50%	50%
Maximum Score	70	20	10
Minimum Score Set as Basis	35	10	06
No. of Students Attended	9	9	9
No. of Students Attained	4	9	9
Percentage of Students Attained	44.44%	100%	100%
Attainment Level	1	3	3
Final Score	1	(3+3/2)=3	
	0.6 (60% of 1)	1.2 (40% of 3)	
	1.8		

  
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**Manchar, Tal. Ambegaon, Dist Pune**

**DEPARTMENT OF POLITICAL SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME 2022-23**

**Course Name : Public Administration**

**Course Code : 36161**

**Class : TYBA**

**Semester : VI**

**Faculty Name : Dr. V. D. Sadaphal**

**Year : 2022-23**

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Annual End Exam	CIE				
		Internal Exam	Home Assignment	Unit Test	Unit Test (Google form)	Seminar
Target	50%	50%	60%	-	-	-
Maximum Score	70	20	10	-	-	-
Minimum Score Set as Basis	35	10	06	-	--	-
No. of Students Attended	9	9	9	-	--	-
No. of Students Attained	8			-	--	-
Percentage of Students Attained	88.88%	90%	90%	-	--	-
Attainment Level	3	3	3	-	--	-
Final Score	3	(3+3/2)=3				
	1.8(60% of 3)	1.2 (40% of 3)				
		<b>3</b>				

  
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**DEPARTMENT OF POLITICAL SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME 2022-23**

**Course Name** : International Relation

**Course Code** : 35162

**Class** : TYBA

**Semester** : V

**Faculty Name** : Dr. V. D. Sadaphal

**Year** : 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Annual End Exam	CIE				
		Internal Exam	Home Assignment	Unit Test	Unit Test (Google form)	Seminar
<b>Target</b>	50%	50%	60%	-	-	-
<b>Maximum Score</b>	70	20	10	-	-	-
<b>Minimum Score Set as Basis</b>	35	10	06	-	--	-
<b>No. of Students Attended</b>	9	9	9	-	--	-
<b>No. of Students Attained</b>	3	5	9	-	--	-
<b>Percentage of Students Attained</b>	33.33%	55.55%	100%	-	--	-
<b>Attainment Level</b>	1	2	3	-	--	-
<b>Final Score</b>	1	(2+3/2)=2.5				
	0.6(60% of 1)	1(40% of 2.5)				
	<b>1.6</b>					

  
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**DEPARTMENT OF POLITICAL SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME 2022-23**

**Course Name : International Relation**

**Course Code : 36162**

**Class : TYBA**

**Semester : VI**

**Faculty Name : Dr. V. D. Sadaphal**

**Year : 2022-23**

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Annual End Exam	CIE				
		Internal Exam	Home Assignment	Unit Test	Unit Test (Google form)	Seminar
<b>Target</b>	50%	50%	60%	-	-	-
<b>Maximum Score</b>	70	20	10	-	-	-
<b>Minimum Score Set as Basis</b>	35	10	06	-	--	-
<b>No. of Students Attended</b>	9	9	9	-	--	-
<b>No. of Students Attained</b>	7	5	9	-	--	-
<b>Percentage of Students Attained</b>	77.77%	55.55%	100%	-	--	-
<b>Attainment Level</b>	3	2	3	-	--	-
<b>Final Score</b>	3	(2+3/2)=2.5				
	1.8(60% of 1)	1(40% of 2.5)				
	2.8					

  
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**DEPARTMENT OF POLITICAL SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME 2022-23**

**Course Name** : Modern Political Analysis

**Course Code** : 35163

**Class** : TYBA


**Semester** : V

**Faculty Name** : Mr. T. Y. Randive

**Year** : 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Annual End Exam	CIE				
		Internal Exam	Home Assignment	Unit Test	Unit Test (Google form)	Seminar
<b>Target</b>	50%	50%	60%	-	-	-
<b>Maximum Score</b>	70	20	10	-	-	-
<b>Minimum Score Set as Basis</b>	35	10	06	-	--	-
<b>No. of Students Attended</b>	9	9	9	-	--	-
<b>No. of Students Attained</b>	5	5	8	-	--	-
<b>Percentage of Students Attained</b>	55.55%	55.55%	88.88%	-	--	-
<b>Attainment Level</b>	2	2	3	-	--	-
<b>Final Score</b>	2	(2+3/2)=2.5				
	1.2(60% of 1)	1(40% of 2.5)				
		2.2				

  
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**DEPARTMENT OF POLITICAL SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME 2022-23**

**Course Name** : Modern Political Analysis  
**Class** : TYBA  
**Faculty Name** : Mr. T. Y. Randive

**Course Code** : 36163  
**Semester** : VI  
**Year** : 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Annual End Exam	CIE				
		Internal Exam	Home Assignment	Unit Test	Unit Test (Google form)	Seminar
<b>Target</b>	50%	50%	60%	-	-	-
<b>Maximum Score</b>	70	20	10	-	-	-
<b>Minimum Score Set as Basis</b>	35	10	06	-	--	-
<b>No. of Students Attended</b>	9	9	9	-	--	-
<b>No. of Students Attained</b>	5	8	9	-	--	-
<b>Percentage of Students Attained</b>	55.55%	88.88%	100%	-	--	-
<b>Attainment Level</b>	2	3	3	-	--	-
<b>Final Score</b>	2	(3+3/2)=3				
	1.2(60% of 1)	1.2(40% of 3)				
		<b>2.4</b>				

*for*  
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**DEPARTMENT OF POLITICAL SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME 2022-23**

**Course Name** : Local Self Gov. of Maharashtra  
**Class** : TYBA  
**Faculty Name** : Dr. V. D. Sadaphal

**Course Code** : 35164  
**Semester** : V  
**Year** : 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Annual End Exam	CIE				Seminar
		Internal Exam	Home Assignment	Unit Test	Unit Test (Google form)	
<b>Target</b>	50%	50%	60%	-	-	-
<b>Maximum Score</b>	70	20	10	-	-	-
<b>Minimum Score Set as Basis</b>	35	10	06	-	--	-
<b>No. of Students Attended</b>	20	20	20	-	--	-
<b>No. of Students Attained</b>	15	16	20	-	--	-
<b>Percentage of Students Attained</b>	75%	80%	100%	-	--	-
<b>Attainment Level</b>	3	3	3	(3+3/2)=3		
<b>Final Score</b>	3	1.2(40% of 3)				
	1.8(60% of 1)	3				

  
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**DEPARTMENT OF POLITICAL SCIENCE**  
**ATTAINMENT OF COURSE OUTCOME 2022-23**

**Course Name** : Local Self Gov. of Maharashtra

**Course Code** : 36164

**Class** : TYBA


**Semester** : VI

**Faculty Name** : Dr. V. D. Sadaphal

**Year** : 2022-23

**CO ASSESSMENT ON BASIS OF SEMESTER END RESULT ANALYSIS AND CIE**

	Annual End Exam	CIE				
		Internal Exam	Home Assignment	Unit Test	Unit Test (Google form)	Seminar
<b>Target</b>	50%	50%	60%	-	-	-
<b>Maximum Score</b>	70	20	10	-	-	-
<b>Minimum Score Set as Basis</b>	35	10	06	-	--	-
<b>No. of Students Attended</b>	20	20	20	-	--	-
<b>No. of Students Attained</b>	14	14	18	-	--	-
<b>Percentage of Students Attained</b>	70%	70%	90%	-	--	-
<b>Attainment Level</b>	3	3	3	(3+3/2)=3		
<b>Final Score</b>	3	1.2(40% of 3)				
	1.8(60% of 3)	3				

  
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**DEPARTMENT OF B.Voc.(Accounting and Taxation)**

**ATTAINMENT OF COURSE OUTCOME**

2022-23

**Sem II**

Sr. No.	Course	CO Attainment Score (Final)	PSO Attainment
1.	F.Y.B.Voc	18/6=3	3+3+3/3=3
2.	S.Y.B.Voc	18/6=3	
3.	T.Y.B.Voc	18/6=3	



सत्यमेव जयते

क्रमांक : 022122855  
SL No :



भारत सरकार  
GOVERNMENT OF INDIA  
पेटेंट कार्यालय  
THE PATENT OFFICE  
पेटेंट प्रमाणपत्र  
PATENT CERTIFICATE  
(Rule 74 of The Patents Rules)


पेटेंट सं. / Patent No. : 423324  
आवेदन सं. / Application No. : 202221021300  
फाइल करने की तारीख / Date of Filing : 09/04/2022  
पेटेंटी / Patentee : 1.Sudarshan Manohar Padwal 2.Shraddha Sopan  
Kulawade

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित A WRITING IMPLEMENT WITH INK CONTROLLER AND A METHOD FOR DETECTION OF INK LEVEL नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख अप्रैल 2022 के नौवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled A WRITING IMPLEMENT WITH INK CONTROLLER AND A METHOD FOR DETECTION OF INK LEVEL as disclosed in the above mentioned application for the term of 20 years from the 9<sup>th</sup> day of April 2022 in accordance with the provisions of the Patents Act,1970.



अनुदान की तारीख : 27/02/2023  
Date of Grant :

  
पेटेंट नियंत्रक  
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, अप्रैल 2024 के नौवें दिन को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देव होगा।  
Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 9<sup>th</sup> day of April 2024 and on the same day in every year thereafter.



**ACADEMIC YEAR 2022-2023 (MARCH/APRIL 2023)**

<b>Sr.No.</b>	<b>Name of Student</b>	<b>Class</b>	<b>CGPA</b>
1	Bhor Srushti Dattatray	T.Y.B.A.	8.90
2	Abhang Trupti Suresh	T.Y.B.Com.	9.08
3	Gawde Prerna Rajesh	T.Y.B.Sc.	9.40
4	Pattar Aditya Mahesh	T.Y.B.B.A.(CA)	8.86
5	Saravade Aditi Santosh	T.Y.Biotech.	8.82
6	Pable Swapnali Vishnu	T.Y.B.Voc. (F.P.Q.M.)	9.14
7	Mule Dipa Machindra	T.Y.B.Voc (A.T.)	8.70
8	Indore Akanksha Dnyaneshwar	M.A. Marathi	8.38
9	Bhawari Shraddha Shankar	M.A. English	8.38
10	Bhaiyye Tejashree Sunil	M.A. Economics	8.25
11	Phalle Prachi Balasaheb	M.Com.	9.13
12	Kale Maya Vikram	M.Sc. Org. Chem.	8.50
13	Gupta Sagar Virendra	M.Sc. Physics	8.40
14	Shaikh Salma Mehfuz	M.Sc. Botany	8.35
15	Randive Shrividya Kamalakar	M.Sc. Ana.Chem.	8.73