Mahatma Education Society's

Pillai HOC College of Arts, Science and Commerce, Rasayani

(NAAC Accredited & ISO 9001:2015 Certified)

2.6.1 (QLM)

PROGRAMME OUTCOMES - COURSE OUTCOMES AND ITS ATTAINMENT

Principal
Mahatma Education Society's
Pillai's HOC College of Arts
Science and Commerce
HOC Educational Campus,
Rasayani, Tal. Khalapur,
Dist. Raigad. PIN - 410 207

SCIENCE

COURSE : Numerical Analysis-I		**Class-TYBSc-Maths**	**Sem- V**
Course Instructor's Name:	**Priya Prakash**		

Course Outcomes :	
Sr. No.	**Course Outcomes**
1	Understanding and Demonstration of Errors Analysis and Transcendental & Polynomial Equations
2	Evaluation of Iteration methods based on first degree equation: Newton-Raphson method, Secant method, Regula-Falsi method, Iteration Method
3	Evaluation of Iteration methods based on second degree equation:

	Muller's method, Chebyshev MethodandMultipoint Iteration Method
4	Understand the concept of Descart's Rule of Sign, Strum's Theorem, Birge - Vieta Method and Bairstow Method.
5	Understanding of Matrix representation of linear system of equations and its solution by Direct and Iteration Methods

COURSE 1- Priya Prakash	**Class- TYBSc- Maths**	**Sem- V**

Course outcomes	**POs**										
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**1**	**11**

CO1	2	2	1	2	2	1	3	1	2	1	2
CO2	2	3	1	2	2	3	3	1	2	1	2
CO3	2	3	1	2	2	2	3	1	2	1	2
CO4	2	3	1	2	2	3	3	1	2	1	2
CO5	3	3	2	3	3	3	3	1	2	1	2
AVG	**2.20**	**2.80**	**1.20**	**2.20**	**2.20**	**2.40**	**3.00**	**1.00**	**2.00**	**1.00**	**2.00**
Program Outcomes:											

SR.NO	Program Outcomes
1	Acquire the knowledge with facts and figures related to various subjects in pure sciences such as Physics, Chemistry and Mathematics.
2	Understand the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevance in day-to-day life.
3	Acquire the skills in handling scientific instruments, planning and performing in laboratory experiments
4	The skills of observations and drawing logical inferences from scientific experiments.
5	Analyze the given scientific data critically and systematically and the ability to draw the objective conclusion.
6	Able to think creatively (divergently and convergent) to propose novel ideas in explaining facts and figures or providing new solutions to the problems.
7	Realize how developments in any science subject helps in the development of other

	science subjects and vice-versa and how an interdisciplinary approach helps in providing better solutions and new ideas for sustainable developments.
8	Develope scientific outlook not only with respect to science subjects but also in all aspects related to life.
9	Imbibed ethical, moral and social values in personal and social life leading to highly cultured and civilized personality.
10	Develop various communication skills such as reading, listening, speaking, etc., which will help in expressing ideas and views clearly and effectively.
11	Realize that pursuit of knowledge is a lifelong activity and in combination with untiring efforts and positive attitude and other necessary qualities leads towards a successful life.

COURSE 4- Numerical Analysis_I	**Class-**	**S**

					TYBSc-Maths	e r - V
Level of Attainment				Total Students	6	
Tools	Target percentage %	No of students scoring more than target	Percentage of students scoring more than	Attainment Level		

			target value	
End Sem Exam	70	6	100	3
Internal Assessment	70	6	100	3
Assignments	80	6	100	3
Lab Assessment (Oral/Practical)	80	6	100	3

Attainment Level 1: 50% students scoring more than target percentage

Attainment Level 2: 60% students scoring more than target percentage

Attainment Level 3: 70 % students scoring more than target percentage

• Attainment is measured in terms of actual percentage of students getting set percentage of marks

CES Parameters	Course Outcomes				
	CO1	CO2	CO3	CO4	CO5
1	√				
2		√			
3			√		
4				√	
5					√

Total no of students who gave course exit survey	5

Parameters	Scale					Attainment (%)
	1	2	3	4	5	
1	0	0	0	3	2	88.00
2	0	0	0	3	2	88.00
3	0	0	0	2	3	92.00
4	0	0	1	2	2	84.00
5	0	0	0	3	2	88.00

Sr. No.	Course Outcomes	% Attainment Through Course Exit Survey	Level of Attainment
1	CO 1	88.00	3
2	CO 2	88.00	3
3	CO 3	92.00	3
4	CO 4	84.00	3
5	CO 5	88.00	3

COURSE 4- Numerical Analysis-I						Class- TYBSc- Maths	Sem- V
Course Assessment report :							
Course Assessment Methods	**TOOLS**	**COURSE OUTCOMES**					
		CO1	**CO2**	**CO3**	**C**	**CO5**	

						C 4	
	Indirect Method	**Course Exit Survey**	3	3	3	3	3
	Direct Method	**End Semester Exam**	3	3	3	3	3
		Internal Assessment	3	3	3	3	3
		Assignments / Tutorials	3	3	3	3	3
		Lab Assessment (Oral/Practical)	3	3	3	3	3

Indirect attainment	**3**					20% =	0.6	
Direct attainment	External	3	80%=	2.4		80% =	2.4	3
	Internal	3	20%=	0.6	**3**			

ARTS

COURSE : Foundation Course III	Class-SYBA	Sem- III
Course Instructor's Name:	Seraphin Amanna	

Course Outcomes :	
Sr. No.	Course Outcomes
1	To be able to develop a basic understanding about issues related to Human Rights of weaker sections,ecology, and science and technology
2	Students will be able to gain an overview of significant skills required to address competition in career choices
3	Students will be able to appreciate the importance of developing a scientific temper towards technology and its use in everyday life
4	Students will be able to improve their interpersonal skills
5	Students will be able to improve their listening skills

COURSE : Foundation Course III						Class-SYBA
Course outcomes	POs						
	1	2	3	4	5	6	7
CO1	3	3	3	3	3	2	3
CO2	3	2	2	2	2	2	3
CO3	2	2	2	2	2	2	2
CO4	3	2	2	3	2	2	3
CO5	3	3	3	2	2	2	3
AVG	2.80	2.40	2.40	2.40	2.20	2.00	2.80

Program Outcomes:

SR.NO	Program Outcomes
1	The learners are expected to understand how cultural, historical, geographical, political, linguistic, and environmental forces shape the world and recognize the role of the individual within communities to effect change.
2	The students must learn to analyse and critically reflect on complex problems incorporating multiple perspectives and innovative thinking. The are expected to think critically and write creatively in various domains.
3	The students will be able to demonstrate the skills to extract and convey information accurately in a variety of formats and demonstrate social interaction.
4	The students are expected to engage in scholarly inquiry to identify and investigate questions of a theoretical and/or applied nature.
5	The programme enables the students to demonstrate detailed knowledge in one or more disciplines and integrate knowledge and perspectives across disciplinary boundaries.
6	The students are expected to demonstrate personal integrity and professional behaviour in scholarly endeavours and in collaborating with others within and beyond the academic community.
7	The students must be able to appreciate literary texts and analyse the social, economic and political factors behind the production and reception of the texts.

COURSE : Foundation Course III			Class-SYBA	Sem- III
Level of Attainment			Total Students	14
Tools	Target percentage %	No of students scoring more than target	Percentage of students scoring more than target value	Attainment Level
End Sem Exam	60	10	71.42857143	3
Internal Assessment	70	11	78.57142857	3
Assignments	80	14	100	3

Lab Assessment (Oral/Practical)	0	0	0	

Attainment Level 1: 50% students scoring more than target percentage
Attainment Level 2: 60% students scoring more than target percentage
Attainment Level 3: 70 % students scoring more than target percentage
• Attainment is measured in terms of actual percentage of students getting set percentage of marks

COURSE : Foundation Course III	**Class-SYBA**	**Sem- III**

Indirect Method
Course Exit Survey Analysis

Questionnaire for Course Exit Survey	
Sr. No.	**Parameters**
1	Were you able to develop a basic understanding about issues related to Human Rights of weaker sections,ecology, and science and technology?
2	Were you able to gain an overview of significant skills required to address competition in career choices?
3	Were you able to appreciate the importance of developing a scientific temper towards technology and its use in everyday life?
4	How far were you able to improve your interpersonal skills?
5	How far were you able to improve your listening skills?

Mapping Of Course Exit Survey parameters to course outcomes

CES Parameters	**Course Outcomes**				
	CO1	**CO2**	**CO3**	**CO4**	**CO5**
1	√				
2		√			
3			√		
4				√	
5					√

Total no of students who gave course exit survey	**13**

Parameters	**Scale**					**Attainment (%)**
	1	**2**	**3**	**4**	**5**	
1	1	0	2	5	5	**80.00**
2	1	0	2	6	4	**78.46**
3	1	0	2	6	4	**78.46**
4	0	1	2	6	4	**80.00**
5	0	1	2	5	5	**81.54**

Sr. No.	**Course Outcomes**	**% Attainment Through Course Exit Survey**	**Level of Attainment**
1	CO 1	80.00	3
2	CO 2	78.46	3
3	CO 3	78.46	3
4	CO 4	80.00	3
5	CO 5	81.54	3

		COURSE : Foundation Course III						**Class-SYBA**		**Sem- III**
		Course Assessment report :								
		Course Assessment Methods	**TOOLS**		**COURSE OUTCOMES**					
					CO1	**CO2**	**CO3**	**CO4**	**CO5**	
		Indirect Method	**Course Exit Survey**		3	3	3	3	3	
		Direct Method	**End Semester Exam**		3	3	3	3	3	
			Internal Assessment		3	3	3	3	3	
			Assignments / Tutorials		3	3	3	3	3	
			Lab Assessment (Oral/Practical)							
Indirect attainment		**3**				20%=	0.6			
Direct attainment	External	3	80%=	2.4						
	Internal	3	20%=	0.6	**3**	80%=	2.4			
								3		

COURSE : Commerce II	Class-FYBCom	Sem- II
Course Instructor's Name:	Rewati Soman	

Course Outcomes :	
Sr. No.	Course Outcomes
1	It create awareness among the learners regarding the broad framework of different types of Services
2	The learners develop skills relating to retail marketing of services
3	The learners get acquainted with the recent trends in the services sector
4	It enable the students to update themselves with respect to E-commerce

COURSE : Commerce II	Class-FyBCom	Sem- II

Course outcomes	POs					
	1	2	3	4	5	6
CO1	3	3	2	3	3	
CO2	3	3	2	3	3	
CO3	3	3	2	3	3	
CO4	3	3	2	3	3	
CO5						
AVG	3.00	3.00	2.00	3.00		

Program Outcomes:

SR.NO	Program Outcomes
1	It enables learners to get theoretical and practical exposure in the commerce sector which includes Accounts, Commerce, Marketing, Management, Economics, and Environment and Taxation. It promotes students to become professionals / managers / entrepreneurs / accountants and consultants in various allied fields.
2	This programme enables the students to be updated with general understanding of human interaction with the environment, logical and analytical abilities, quantitative techniques and life skills.
3	The students are acquainted with the basics of judicial, legal, political, cultural, social, ethical and administrative structural set up of India.
4	It aims to produce graduates who will come up with innovative solutions to problems, apply research skills to business challenges and communicate effectively.
5	The commerce and accounts focused curriculum offers a number of specializations and practical exposures which would equip the student to face the modern-day challenges in commerce, industry and entrepreneurship.

COURSE : Commerce II	Class-FyBCom	Sem- II

Level of Attainment	Total Students	110

Tools	Target percentage %	No of students scoring more than target	Percentage of students scoring more than target value	Attainment Level
End Sem Exam	70	96	87.27272727	3
Internal Assessment	90	104	94.54545455	3
Assignments	80	106	96.36363636	3
Lab Assessment (Oral/Practical)			0	

Attainment Level 1: 50% students scoring more than target percentage

Attainment Level 2: 60% students scoring more than target percentage

Attainment Level 3: 70 % students scoring more than target percentage

• Attainment is measured in terms of actual percentage of students getting set percentage of marks

COURSE : Commerce II	**Class-FyBCom**	**Sem- II**

Indirect Method

Course Exit Survey Analysis

Questionnaire for Course Exit Survey	
Sr. No.	**Parameters**
1	Does it create awareness among the learners regarding the broad framework of different types of Services?
2	Do the learners develop skills relating to retail marketing of services?
3	Are the learners get acquainted with the recent trends in the services sector?
4	Does it enable the students to update themselves with respect to E-commerce?
5	

Mapping Of Course Exit Survey parameters to course outcomes

CES Parameters	**Course Outcomes**				
	CO1	**CO 2**	**CO3**	**CO4**	**CO5**
1	√				
2		√			
3			√		
4				√	
5					√

Total no of students who gave course exit survey	**41**

Parameters	**Scale**					**Attainment (%)**
	1	**2**	**3**	**4**	**5**	
1	0	3	11	12	15	**79.02**
2	0	3	14	11	13	**76.59**
3	0	4	10	14	13	**77.56**
4	0	1	15	12	13	**78.05**
5						**0.00**

Sr. No.	**Course Outcomes**	**% Attainment Through Course Exit Survey**	**Level of Attainment**
1	CO 1	79.02	3
2	CO 2	76.59	3

3	CO 3	77.56	3
4	CO 4	78.05	3

COURSE : Commerce II						**Class-FyBCom**	**Sem- II**

Course Assessment report :

Course Assessment Methods	**TOOLS**	**COURSE OUTCOMES**				
		CO1	**CO2**	**CO3**	**CO4**	
Indirect Method	**Course Exit Survey**	3	3	3	3	
Direct Method	**End Semester Exam**	3	3	3	3	
	Internal Assessment	-	-	-	-	
	Assignments / Tutorials	3	3	3	3	
	Lab Assessment (Oral/Practical)	-	-	-	-	-

Indirect attainment	**3**					20%=	0.6		
Direct attainment	External	3	80%=	2.4	**3**	80%=	2.4	**3**	
	Internal	3	20%=	0.6					

MSCIT PO Mapping 2020-21

	Semester	Sr. No.	Courses	PO1	PO2	PO3	PO4	PO5
FY PROGRAMME NAME (20-21)	ODD	1	Cloud Computing	3	3	3	3	3
		2	Data Science	3	3	3	2	3
		3	Research in Computing	3	3	3	3	2
		4	Soft Computing Techniques	3	2	3	2	3
		5						
	EVEN	6	Modern Networking	3	3	2	3	3
		7	Microservices Architecture	3	3	3	3	3
		8	Image Processing	3	3	3	3	3
		9	Big Data Analytics	3	3	2	2	3
		10						
SY PROGRAMME NAME (21-22)	ODD	11	TWE	3	3	3	2	3
		12	AAI	3	3	3	3	2
		13	Robotics Process Automation	3	3	2	2	2
		14	Machine Learning	3	3	3	3	2
		15						
	EVEN	16	NLP	**3**	**3**	**3**	**2**	**2**
		17	Human Computer Interaction	3	3	2	3	3
		18	Deep Learning	3	3	3	3	3
		19	BLOCKCHAIN	2	3	3	3	3
		20						
		Average		2.9	2.9	2.7	2.6	2.7

MSC IT Graduate Exit Survey Calculator 2020-21

Programme	MSC IT
Year	20-21 TO 21-22
Programme Coordiantor	Ashwini Khillari

Program Outcomes:	
SR.NO	**Program Outcomes**
1	To equip postgraduate students with an integrated set of skills that will allow them to develop their professional careers in Information Technology.
2	To equip students with the theoretical and practical knowledge that is necessary to enable them to understand the design of complex computer application/science.
3	The program helps students to acquire the latest skills and build their future capabilities using world-class technology.
4	Skills to work with higher end applications in internet technologies; also managerial ability to analyze, design, develop and to maintain software development.
5	To realize that pursuit of knowledge is a lifelong activity and in combination with untiring efforts and positive attitude and other necessary qualities leads towards a successful life.

Questionnaire for Programme/GraduateExit Survey	
Sr. No.	**Parameters/Questions**
1	Did you acquire the skills that will allow you to develop professional careers in Information Technology.
2	Did you acquire theoretical and practical knowledge that is necessary to enable you to understand the design of complex computer application/science.
3	Did you able to acquire the latest skills and build future capabilities using world-class technology.
4	Did you able to acquire Skills to work with higher end applications in internet technologies; also managerial ability to analyze, design, develop and to maintain software development.
5	Did you able to analyze knowledge is a lifelong activity and in combination with untiring efforts and positive attitude and other necessary qualities leads towards a successful life.

Mapping Of Graduate Exit Survey parameters to Programme outcomes												
GES Parameters	Programme Outcomes											
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO9	PO10	PO11	PO12
1	√											
2		√										
3			√									
4				√								
5					√							
6						√						
7							√					
8								√				
9									√			
10										√		
11											√	
12												√

Total no of students who gave programme exit survey						3	
Parameters	Scale					Attainment (%)	Level of Attainment
	1	2	3	4	5		
1	0	0	1	1	1	**80.00**	3
2	0	0	2	0	1	**73.33**	3
3	0	0	2	0	1	**73.33**	3
4	0	1	1	0	1	**66.67**	2
5	0	0	2	0	1	**73.33**	3
6						**0.00**	0
7						**0.00**	0
8						**0.00**	0
9						**0.00**	0
10						**0.00**	0
11						**0.00**	0
12						**0.00**	0

Indirect PO Attainment	2.8

Direct PO Attainment												
POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	P
Average	0.5	2.0	0.8	1.7	30.6							

Direct PO Attainment	7.11

PO Attainment	6.2