

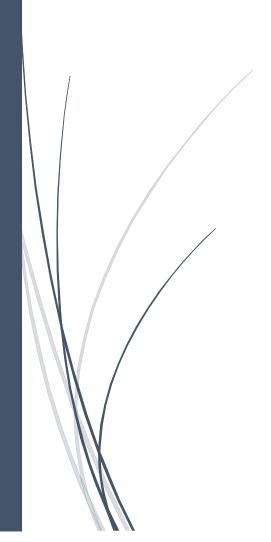
Session 2020-21

Submitted by

# **Department of Mathematics**

# **Mankar College**





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# List of programme outcomes

### Name of the program: Mathematics Hons

PO1	Gain a strong knowledge in different areas of mathematics and solve real life problems by constructing and solving mathematical models.
PO2	Acquire numerical skill and logical thinking and apply these in facing competitive examinations, internships with confidence.
PO3	Gain scientific knowledge and skills which enables them to undertake further studies in Mathematics, Statistics or its allied areas.
PO4	Pursue research in the field of Mathematics, Engineering, Information Technology, Computer Science and Social Science
PO5	Apply knowledge of principles, concepts, and results in specific subject area to analyse their impact both locally and globally.
PO6	Enhance problem-solving skills to resolve day to day problems.

# List of course outcomes

### 1<sup>st</sup> Year (Semester I semester II)

#### Semester -I

### Course code: BMH1CC01

### Course Name: Calculus, Geometry, and differential equations

SL.	Outcomes	РО
No		addressed
	Recall the idea of derivative, integration, rules of differentiation and	PO1
	understand the concept of formulating differential equations.	
	Will be able to solve different kinds of differential equations.	PO1
	Demonstrate the ability to visualize various forms of straight lines, planes,	PO4
	conic sections and enables them to apply these concepts in explaining	
CO1	mathematical theories geometrically.	
	Apply the concepts of differentiation to estimate velocity, acceleration, and	PO6
	integration like measuring area of a surface, volume etc.	
	Know hyperbolic functions and compare these functions with circular	PO3
	functions, trigonometric functions, inverse trigonometric functions and learn	
	their properties.	

#### Course code: BMH1CC02

### **Course Name: Algebra**

SL.	Outcomes	РО
No		addressed
	Learn the basic ideas of the theory of equations and will be able to solve	PO5
	different types of equations.	
CO2	Learn the operations on polynomials and associated theorems.	PO3
	Calculate arithmetic mean, geometric mean and hyperbolic mean and will be	PO6
	able to apply them to solve real life problems.	
	Know the divisibility of integers, congruence operations, Principle of	PO3
	mathematical induction etc.	
	Develop numerical skill to solve practical problems.	PO2, PO6

#### Semester -II

#### Course code: BMH2CC03

### **Course Name: Real Analysis**

SL.	Course outcome	РО
No.		Addressed

	Learn the basic concepts of countable sets, metric space, connectedness,	PO5, PO3
	compactness of metric spaces, which are the backbone of real analysis.	
	Understand the techniques and examples in analysis, which helps them to	PO3
	be well prepared for courses like Topology, Measure theory and Functional	
	analysis.	
	Using the concept of sequence and series find the sum of infinite terms with	PO2, PO6
CO3	different methods.	
	Differentiate continuous functions and uniform continuous functions	PO2
	Understand iterative numerical methods to find the roots of an equation,	PO4
	which are based on the concept of sequence.	
	Explain the applicability of mathematical models using the concepts of real	PO1
	analysis	

### Course code: BMH2CC04

### **Course Name: Differential Equations and Vector Calculus**

SL.	Outcomes	РО
No		addressed
	Identify different types of equations, such as linear, non-linear, homogeneous	PO2, PO3
	differential equations.	
CO4	Formulate and solve various types of differential equations.	PO1, PO5
	Demonstrate the ability to formulate mathematics model for a real-life	PO1, PO4
	problem like outbreak of a disease, logistics problems etc and solve these.	
	Able to find equilibrium points and know the interpretation of phase plane.	PO3
	Learn the basics of vector calculus including gradient, divergence and curl	PO2, PO3
	which is mostly used in the study of physics.	

### 2<sup>nd</sup> Year (Semester III semester IV)

### Course code: BMH3CC05

### **Course Name: Theory of Real Functions and Introduction to Metric Spaces**

SL.	Outcomes	РО
No		addressed
	Recall the limit and continuity of functions. Equipped with basic	PO2, PO3
	mathematical tools such as open & close sets, continuity, connectedness,	
CO5	compactness which can be used to study mathematics in higher level.	
000	Understand mean value theorem and its application, Taylor's series and	PO3, PO4
	Maclaurin's series expansion of exponential and trigonometric functions.	
	Know the basic concepts and terminologies of metric space.	PO3
	Acquire knowledge helps to study further in advance mathematics courses.	PO3, PO4

	Acquire problem solving ability through solving different problems on	PO6
	various concepts involved.	

### Course code: BMH3CC06

### **Course Name: Group Theory I**

SL.	Outcomes	PO
No		addressed
	Acquire knowledge about different types of groups and their properties.	PO2, PO3
	Learn the algebraic structure 'Groups' in detail, which is useful in study of	PO3, PO4
CO6	Rings, Modules, Algebraic topology etc.	
	Learn Lagrange theorem and apply this to check if a given subset is a	PO2
	subgroup of a group or not.	
	Determine the condition for the group Zn to be an integral Domain and Field	PO2, PO3
	and find the Characteristic of the Ring, Integral Domain, and Field.	
	Learn the properties of homomorphism and isomorphism.	PO2, PO3

### Course code: BMH3CC07

### Course Name: Numerical Methods and numerical methods lab

SL.	Course outcome	PO
No.		Addressed
	Understand the necessity of using numerical methods apply these to solve various types of problems	PO1, PO2
	Find roots of transcendental and polynomial equations using numerical techniques	PO2, PO6
	Solve mathematical models using appropriate numerical methods and pursue research in the field of mathematics, engineering, computer science.	PO4, PO1
CO7	Constructs polynomials employing different methods and understand numerical differentiation and integration which enables them to undertake further studies in Mathematics, or its allied areas.	PO3
	Compare the rate of convergence of different numerical formula.	PO2
	Understand C programming language and can solve problems using C- programming software.	PO4, PO5

### Course code: BMH3SEC11

### **Course Name: Logic and Sets**

SL.	Outcomes	РО
No		addressed
	Introduced with basic terminologies of Logics such as truth table, negation	PO2, PO3
	conjunction and disjunction.	
CO8	Know sets operations and the laws of sets theory and Venn Diagrams.	PO2, PO4
000	Learn relations, composition of relations and their examples.	PO2, PO3

Using the knowledge of sets theory, demonstrate the ability to solve	PO2
reasonings. It may help them to get prepared for the competitive exams.	
Enhance logical skills.	PO2, PO1

### Semester -IV

### Course code: BMH4CC08

### **Course Name: Reimann Integration and Series of Functions**

SL.	Outcomes	PO
No		addressed
	Get introduced with Reimann integration and associated theorems.	PO2, PO3
	Demonstrate the ability to solve related problems.	
CO9	Know fundamental theorem of integral calculus and its application.	PO2, PO3
	Learn improper integral and the convergence of Beta and Gamma functions.	PO3, PO4,
	Enhance the ability to solve related problems.	PO5
	Understand the definition of Fourier coefficient and series.	PO3
	Learn power series and associated theorems. Can solve problems related to	PO1, PO2,
	series of functions.	PO3, PO6

### Course code: BMH4CC09

#### **Course Name: Multivariate Calculus**

SL.	Outcomes	PO
No		addressed
	Introduced with function of several variables and the limit, continuity, and	PO3
	differentiability of these functions.	
CO10	Learn double and triple integral and able to solve the related problems.	PO3, PO4
0010	Enhance the ability to calculate area and volume using double and triple	
	integral.	
	Know vector operators, gradient of scalar function, vector field, divergence	PO3, PO4
	and curl. The acquired knowledge help them to study further in the field of	
	applied mathematics, engineering, and physics.	
	Enhance the problem-solving skills.	PO5, PO6
	Demonstrate the ability to solve real-life problems using the knowledge of	PO1, PO6
	integration and vector operators.	

### Course code: BMH4CC10

### Course Name: Ring Theory and Linear Algebra I

SL.	Outcomes	РО
No		addressed
	Learn the algebraic structure of Ring and gain detailed knowledge through various examples.	PO2, PO3
	Understand ring homomorphism and its properties and the fields of quotient.	PO3

CO11	Learn vector spaces and its associated theorem. Able to solve related problems.	PO2, PO3, PO4
	Know linear transformation, its rank and nullity. Learn the algebra of linear	PO3
	transformation and its matrix representation.	
	Enhance problem solving skills by solving problems of linear algebra.	PO5, PO6

### Course code: BMH4SEC21

### **Course Name: Graph theory**

SL.No.	Course outcome	PO
		Addressed
CO12	Understand the concept of Graphs, which is an important tool for	PO1, PO3
	Mathematical Modelling	
	Understand different types of graphs and operations on graphs	PO2, PO3
	Relate real life problems or events with mathematical graphs	PO5, PO6
	Understand the concept of trees and algorithms to find special spanning	PO3, PO4
	trees	
	Understand directed graphs and its applications	PO2, PO4

### 3<sup>rd</sup> Year (Semester V semester VI)

### Course code: BMH5CC11

### **Course Name: Partial Differential Equations and Applications**

SL.	Outcomes	РО
No		addressed
	Know basic concepts and definition of partial differential equations and its	PO1, PO2,
	application.	PO3
CO13	Familiar with different types of partial differential equations and can solve	PO2
0010	them.	
	Learn the construction and geometrical interpretation of partial differential	PO1
	equations.	
	Know Cauchy problems of partial differential equations, initial and boundary	PO3, PO4
	value problems.	
	Construct mathematical model to a real-life problem and solve them.	PO4, PO5,
	Enhance the capability to continue research in applied mathematics,	PO6
	engineering, and physics.	

### Course code: BMH5CC12

#### **Course Name: Mechanics I**

SL.	Outcomes	РО
No		addressed
	Learn coplanar forces, equilibrium of a particle on a rough curve, general	PO3, PO4
	condition of equilibrium and the stability and instability of equilibrium.	
CO14	Recall simple harmonic motion and gain detailed knowledge by solving	PO2
0011	associated problems.	
	Learn moments and products of inertia, D' Alembert's principle and its	PO3, PO4
	application.	
	Understand the conservation of momentum and energy. The acquired	PO5, PO6
	knowledge help to solve practical problems.	
	Enhance the ability to solve problems related to physics and engineering and	PO4, PO6
	capable to study further in these fields.	

#### Course code: BMH5DSE12

### **Course Name: Number theory**

SL.	Course outcome	PO
No.		Addressed
	Apply mathematical induction and other types of techniques to prove	PO1
	theorems or mathematical results.	
	Apply the concepts and results of divisibility of integers effectively	PO2, PO6
CO15	Understand research problems related to number theory	PO3, PO4

Learn various theorems on primes, congruence and residues which are used	PO3
in cryptography.	
Solve problems related to Chinese remainder theorem, Fermat's Little	PO2
theorem	

### Course code: BMH5DSE21

### **Course Name: Probability and Statistics**

SL.	Outcomes	PO
No		addressed
	Understand the concepts of sample space, the laws of probability and the	PO2, PO3
	Baye's theorem and learn discrete and continuous random variables.	
CO16	Learn different types of distribution and can solve related problems.	PO1, PO2
0010	Derive correlation, regression, and rank correlation coefficient and learn	PO1, PO3,
	partial and multiple correlations.	PO4
	Gain the concepts in sampling and know the estimation of parameters.	PO1, PO2,
		PO3
	Able to continue further study in the field of applied mathematics, statistics,	PO3, PO4,
	and biostatistics. Enhance the ability to solve practical problems.	PO5, PO6

#### Semester -VI

### Course code: BMH6CC13

### **Course Name: Metric Spaces and Complex Analysis**

SL.	Outcomes	РО
No		addressed
	Recall the concepts of metric space, Cauchy sequence and complete metric	PO2, PO3
	space.	
CO17	Know continuous mappings, sequential criterion and other characterizations	PO3
	of continuity, uniform continuity, and connectedness.	
	Understand Banach Fixed point theorem and its application to ordinary	PO2, PO3
	differential equations.	
	Know the Cauchy-Reimann equations and the sufficient condition for	PO2, PO3,
	differentiability. Enhance the problem-solving skills through its applications.	PO4, PO6
	Using the tools and techniques of complex analysis, demonstrate the ability to	PO3, PO4
	study further in the field of real mathematics.	

### Course code: BMH6CC14

### Course Name: Ring Theory and Linear Algebra II

SL.	Outcomes	РО
No		addressed
	Recall the concepts and terminologies of Ring theory and linear algebra.	PO2

	Learn factorization of polynomials, reducibility and irreducibility tests	PO2, PO3					
CO18	<ul> <li>Einstein Criterion, and unique factorization in Z(x).</li> <li>Understand eigen spaces of a linear operator, invariant subspaces, and the Cayley Hamilton theorem. Enhance the ability to solve associated problems.</li> </ul>						
018							
	Learn inner product spaces and norms, Gram-Schmidt orthogonalization	PO3, PO4					
	process and learn its application through various examples.						
	Understand least square approximations and minimal solutions to systems of	PO2					
	linear equations.						

### Course code: BMH6DSE43

### **Course Name: Group Theory II**

SL.	Outcomes	РО
No		addressed
	Recall the concepts of different types of groups and homomorphisms.	PO2, PO3
	Learn group action, stabilizers and kernels and their applications, Generalized	PO3, PO4
CO19	Caley's theorem and index theorem.	
	Learn class equations and consequences, Sylow's theorems and consequences	PO3, PO4
	and Cauchy's theorems.	
	Enhance the problem-solving skill by solving various problems on Group	PO2, PO6
	theory.	
	Acquired knowledge help to study further in the fields of mathematics.	PO3, PO4

### Course code: BMH6PW01

### Course Name: Project

SL.No.	Course outcome	PO
		Addressed
	Choose a topic of their own interest	PO4
	Formulate, analyse, and interpret mathematical models	PO1
	Build confidence and develop communication skills through the	PO2, PO6
	presentation of their project work	
CO20	Get preliminary concept of research in mathematics	PO3, PO4
	Gain in-depth knowledge independently in the specific topic	PO3
	Understand the core findings of their project and their applicability in	PO5
	practice	

# **CO PO Matrix**

	CO PC	) Matrix: 1s	t Year	
	CO1	CO2	CO3	CO4
PO1	5	1	3	5
PO2	1	4	5	5
PO3	4	5	4	5
PO4	4	1	4	4
PO5	1	4	4	4
PO6	4	4	4	1

	CO PO Matrix: 2nd Year											
	CO5	CO6	CO7	CO8	CO9	CO10	CO11	CO12				
PO1	1	1	5	3	2	3	2	3				
PO2	4	4	5	5	5	4	4	4				
PO3	5	5	4	5	5	4	5	5				
PO4	5	4	5	3	3	3	3	4				
PO5	4	1	4	1	3	3	3	3				
PO6	3	1	4	1	3	5	3	3				

	CO PO Matrix: 3rd Year												
	CO13	CO14	CO15	CO16	CO17	CO18	CO19	CO20					
PO1	5	1	3	5	1	1	1	5					
PO2	4	3	4	5	5	5	4	3					
PO3	4	4	4	5	5	5	5	4					
PO4	4	4	3	4	4	4	5	3					
PO5	3	3	1	3	1	1	1	4					
PO6	3	4	3	3	3	1	3	4					

5- very highly correlated

4- highly correlated

3- moderately correlated

2- poorly correlated

1- Very poorly correlated

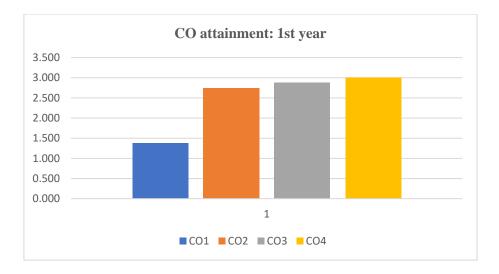
# **Attainment of Course Outcomes (2020-21)**

Name	University Roll Number	CO1	CO2	CO3	CO4
XXXXX	200311700008	6	10	9	9
XXXXX	200311700011	5	9	9	9
XXXXX	200311700021	8	9	10	10
XXXXX	200311700023	8	10	9	9
XXXXX	200311700038	7	9	9	9
XXXXX	200311700044	7	9	9	9
XXXXX	200311700045	6	7	8	9
XXXXX	200311700052	8	9	9	9

# Student wise GPA for course outcomes: 1<sup>st</sup> Year

## Student wise attainment level for course outcomes: 1<sup>st</sup> Year

Name	University Roll Number	CO1	C02	CO2	CO4
	Number	CO1	CO2	CO3	CO4
XXXXX	200311700008	1	3	3	3
XXXXX	200311700011	1	3	3	3
XXXXX	200311700021	2	3	3	3
XXXXX	200311700023	2	3	3	3
XXXXX	200311700038	1	3	3	3
XXXXX	200311700044	1	3	3	3
XXXXX	200311700045	1	1	2	3
XXXXX	200311700052	2	3	3	3
CO a	attainment	1.375	2.75	2.875	3



The above chart depicts the attainment levels of CO1, CO2, CO3 and CO4. It shows, although the attainment level of CO2, CO3 and CO4 is high, it is comparatively low for CO1. Therefore, to improve the attainment level of this course in the subsequent years the following actions have been taken –

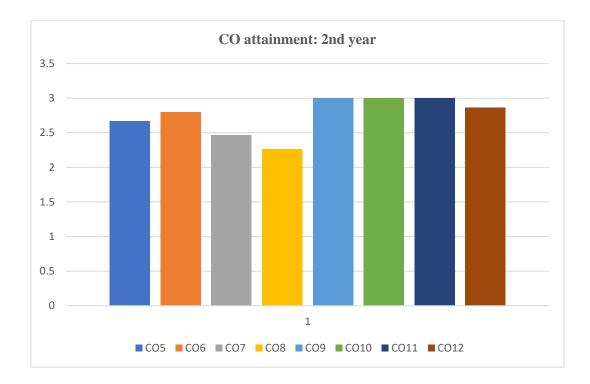
- The number of classes for this course was increased.
- The faculty members were requested to take remedial classes for those students who failed to achieve satisfactory scores in the internal assessments or class tests.

	University Roll								
Name	Number	CO5	CO6	CO7	CO8	CO9	CO10	CO11	CO12
XXXXX	190311700001	10	10	10	10	10	10	10	10
XXXXX	190311700008	10	9	10	9	10	10	10	9
XXXXX	190311700011	9	10	10	10	10	10	10	10
XXXXX	190311700013	9	10	10	9	10	10	10	10
XXXXX	190311700027	9	10	10	9	10	10	10	10
XXXXX	190311700028	8	9	7	7	9	9	9	9
XXXXX	190311700029	8	9	9	8	9	9	9	9
XXXXX	190311700030	8	8	7	7	9	9	9	8
XXXXX	190311700032	9	10	10	9	10	10	10	10
XXXXX	190311700034	9	10	10	9	10	10	`10	10
XXXXX	190311700035	8	9	8	7	9	9	9	8
XXXXX	190311700039	9	7	7	7	9	9	9	9
XXXXX	190311700048	8	9	8	7	9	9	9	9
XXXXX	190311700049	10	10	9	9	10	10	10	10
XXXXX	190311700051	9	10	10	9	10	10	10	10

### Student wise GPA for course outcomes: 2<sup>nd</sup> Year

### Student wise attainment level for course outcomes: 2nd Year

	University Roll								
Name	Number	CO5	CO6	CO7	CO8	CO9	CO10	CO11	CO12
XXXXX	190311700001	3	3	3	3	3	3	3	3
XXXXX	190311700008	3	3	3	3	3	3	3	3
XXXXX	190311700011	3	3	3	3	3	3	3	3
XXXXX	190311700013	3	3	3	3	3	3	3	3
XXXXX	190311700027	3	3	3	3	3	3	3	3
XXXXX	190311700028	2	3	1	1	3	3	3	3
XXXXX	190311700029	2	3	3	2	3	3	3	3
XXXXX	190311700030	2	2	1	1	3	3	3	2
XXXXX	190311700032	3	3	3	3	3	3	3	3
XXXXX	190311700034	3	3	3	3	3	3	3	3
XXXXX	190311700035	2	3	2	1	3	3	3	2
XXXXX	190311700039	3	1	1	1	3	3	3	3
XXXXX	190311700048	2	3	2	1	3	3	3	3
XXXXX	190311700049	3	3	3	3	3	3	3	3
XXXXX	190311700051	3	3	3	3	3	3	3	3
CO a	attainment	2.666667	2.8	2.466667	2.266667	3	3	3	2.866667



Although the CO attainment of most of the courses were satisfactory, it is slightly poor for CO8. Therefore, to improve the attainment level of this course the following actions were taken –

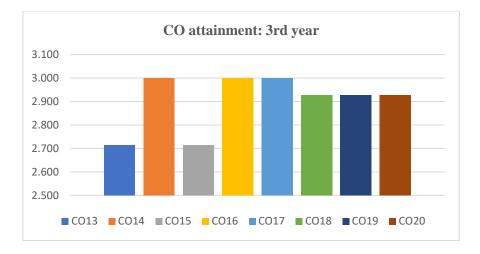
- Students of the subsequent years were provided with study materials and extra classes.
- Previous years university exams questions were discussed with them to make them aware of the question pattern.

Name	University Roll Number	CO13	CO14	CO15	CO16	CO17	CO18	CO19	CO20
XXXXX	180311700002	9	9	10	10	10	10	10	10
XXXXX	180311700004	7	9	7	10	8	9	8	10
XXXXX	180311700006	9	9	10	10	10	10	10	10
XXXXX	180311700007	10	10	10	10	10	10	10	10
XXXXX	180311700011	9	10	10	10	10	10	10	10
XXXXX	180311700012	10	10	10	10	10	10	10	10
XXXXX	180311700017	9	10	10	10	9	10	10	10
XXXXX	180311700018	7	9	7	10	9	8	10	8
XXXXX	180311700020	9	10	10	10	10	10	10	10
XXXXX	180311700022	9	10	10	10	10	10	10	10
XXXXX	180311700026	10	10	10	10	10	10	10	10
XXXXX	180311700031	10	10	10	10	10	10	10	10
XXXXX	180311700034	9	9	10	10	10	10	10	10
XXXXX	180311700035	10	10	10	10	10	10	10	10

Student wise GPA for course outcomes: 3<sup>rd</sup> Year

# Student wise attainment level for course outcomes: 3<sup>rd</sup> Year

Name	University Roll Number	CO13	CO14	CO15	CO16	CO17	CO18	CO19	CO20
XXXXX	180311700002	3	3	3	3	3	3	3	3
XXXXX	180311700004	1	3	1	3	3	3	2	3
XXXXX	180311700006	3	3	3	3	3	3	3	3
XXXXX	180311700007	3	3	3	3	3	3	3	3
XXXXX	180311700011	3	3	3	3	3	3	3	3
XXXXX	180311700012	3	3	3	3	3	3	3	3
XXXXX	180311700017	3	3	3	3	3	3	3	3
XXXXX	180311700018	1	3	1	3	3	2	3	2
XXXXX	180311700020	3	3	3	3	3	3	3	3
XXXXX	180311700022	3	3	3	3	3	3	3	3
XXXXX	180311700026	3	3	3	3	3	3	3	3
XXXXX	180311700031	3	3	3	3	3	3	3	3
XXXXX	180311700034	3	3	3	3	3	3	3	3
XXXXX	180311700035	3	3	3	3	3	3	3	3
CO attainment		2.714286	3	2.714286	3	3	2.928571	2.928571	2.928571



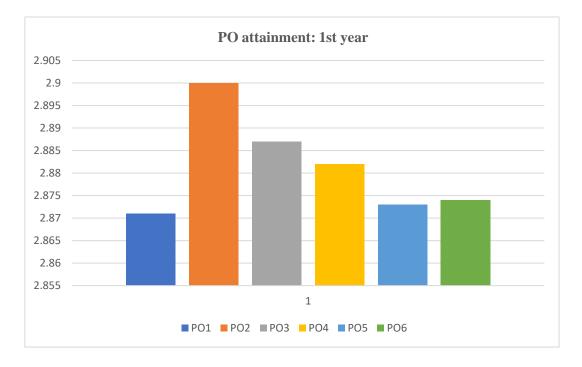
The above chart depicts the course attainment of the 3<sup>rd</sup> year. It shows the poor attainment level of the course outcomes for CO13 and CO15. Therefore, to improve the attainment level of these two courses the following actions were taken -

- 1. Remedial classes and doubt clearing classes were arranged.
- 2. Extra study materials and reference books were provided.

# **Attainment of Programme Outcomes (2020-21)**

Course Variables	Course Outcomes Average Attainments	CO1 1.375	CO2 2.750	CO3 2.875	CO4 3.000	Programme Wise Total Correlation Value	PO Attainment Level
sa	PO1	5	1	3	5	14	2.375
e Outcomes	PO2	1	4	5	5	15	2.783
	PO3	4	5	4	5	18	2.542
, united and the second s	PO4	4	1	4	4	13	2.442
Programme	PO5	1	4	4	4	13	2.760
E E	PO6	4	4	4	1	13	2.385

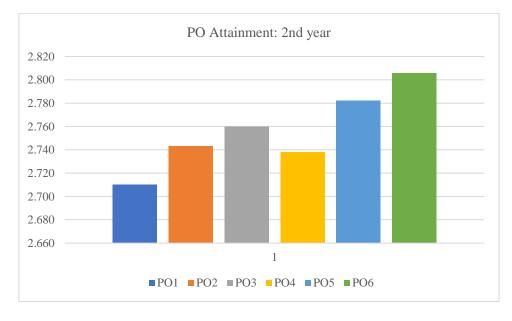
### Calculation of attainment of Programme Outcomes: 1st year



The above graph represents the attainment of program outcomes for the 1<sup>st</sup> year students in 2020-21. We noticed a high attainment level of PO2 and a satisfactory level for the remaining outcomes except PO1. The reason for the poor attainment level of PO1 was the poor attainment of CO1. Necessary actions were taken to improve it.

### Calculation of attainment of Programme Outcomes: 2<sup>nd</sup> year

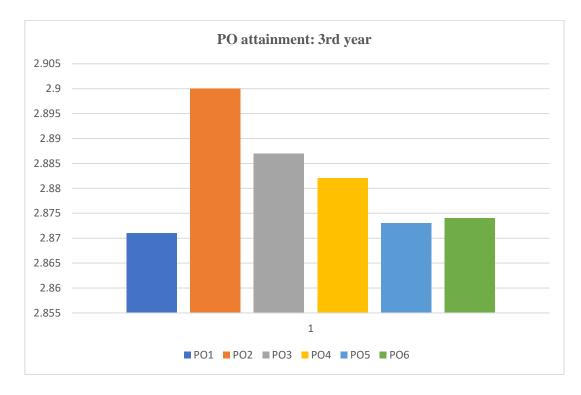
Course	Course Outcomes Average	CO5	CO6	C07	CO8	CO9	CO10	C011	CO12	Programme Wise Total Correlation	PO Attainment
Variables	Attainments	2.667	2.8	2.467	2.267	3	3	3	2.867	Value	Level
8	PO1	1	1	5	3	2	3	2	3	20	2.710
com	PO2	4	4	5	5	5	4	4	4	35	2.743
e Out	PO3	5	5	4	5	5	4	5	5	38	2.760
J J J J J J J J J J J J J J J J J J J	PO4	5	4	5	3	3	3	3	4	30	2.738
Programme Outcomes	PO5	4	1	4	1	3	3	3	3	22	2.782
E E	PO6	3	1	4	1	3	5	3	3	23	2.806



The above chart depicts the program attainment level for the 2<sup>nd</sup> year in 2020-21. The attainment of all the outcomes were satisfactory for this year.

### Calculation of attainment of Programme Outcomes: 3<sup>rd</sup> year

Course Variables	Course Outcomes Average Attainments	CO13 2.714	CO14 3.000	CO15 2.714	CO16 3.000	CO17 3.000	CO18 2.928	CO19 2.928	CO20 2.928	Programme Wise Total Correlation Value	PO Attainment Level
S	PO1	5	1	3	5	1	1	1	5	22	2.873
com	PO2	4	3	4	5	5	5	4	3	33	2.904
e Out	PO3	4	4	4	5	5	5	5	4	36	2.908
l l l l l l l l l l l l l l l l l l l	PO4	4	4	3	4	4	4	5	3	31	2.908
Programme Outcomes	PO5	3	3	1	3	1	1	1	4	17	2.907
Ā	PO6	3	4	3	3	3	1	3	4	24	2.905



The above chart depicts the program outcomes of  $3^{rd}$  year in 2020-21. It shows a good attainment of all the program outcomes. It is resolved that we, the faculty members, will take the necessary actions to keep it on.