



PRESIDENCY UNIVERSITY

(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

Name of the School: School of Engineering

Name of the Department: Mathematics

Area of Specialization: Mathematics (General)

Name of the Faculty Member: Dr.Veerasha A S

Title of the Value Added Course: Basics Topology Optimization

Course Duration: [30 hours]

Course Code: MATV020

Introduction to the Course:

Topology optimization is a mathematical method which spatially optimizes the distribution of material within a defined domain, by fulfilling given constraints previously established and minimizing a predefined cost function

Course Outcome:

On successful completion of the course the students shall be able to use mathematical method that optimizes material layout within a given design space

Course Content:

Introduction, Basics of Topology, Continuity, Homeomorphism, Optimization, applications of topology optimization.

Signature of the Faculty Member

Approval by the HOD

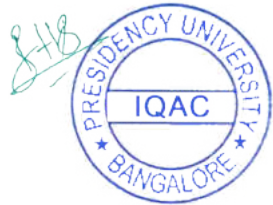


Presidency University, Bengaluru
 Department of Mathematics
 School of Engineering

NOTE:1. If 1 or more classes are engaged on same day, Then change timings by repeating date
 2. Enter date and timings according to the VAC class engaged

VAC DETAILS
 Total number of hours:30
 Value added Course(VAC) Name and Code: Basics of Topology Optimization and MATV020
 Name of the Instructor: Dr. Veerasha A Sajjanara

S.No.	STUDENT ID NO	STUDENT NAME	06.11.21	06.11.21	07.11.21	07.11.21	13.11.21	13.11.21	14.11.21	14.11.21	20.11.21	20.11.21	21.11.21	21.11.21	27.11.21	27.11.21	28.11.21	28.11.21	04.12.21	04.12.21	05.12.21	05.12.21	11.12.21	11.12.21	12.12.21	12.12.21	18.12.21	18.12.21	19.12.21	19.12.21	25.12.21	25.12.21	Total classes conducted	Total classes attended	Percentage attended	
1	20211ECE0043	CHAKALI VINOD	P	P	P	P	A	P	A	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	P	A	P	P	30	24	80	
2	20211ECE0349	PANYAM VENKATA VIVEKANANDA REDDY	P	P	P	P	A	P	A	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	P	A	P	P	30	28	93	
3	20211CSE0277	GUTTA BINDU SREE	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	30	26	87	
4	20211ECE0366	GANGANNAGARI MAHESHWAR REDDY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	30	28	93	
5	20211CA0173	B R YESHWANTH	P	A	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	A	P	A	P	P	P	30	23	77	
6	20211CA0176	BELDONA VISWESWARA	P	P	P	A	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	A	P	30	24	80	
7	20211ISD0037	MUPPALA PRUDHVI RAJU	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90	
8	20211CSE0769	DUDDUGANTA VENKATA TEJESH REDDY	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	30	28	93	
9	20211CST0043	VENNAPOOSA SRI MANJUNATH REDDY	P	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	30	27	90	
10	20211CSE0736	THUMMALAPALLE VAMSHIKA	P	P	A	P	P	A	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	30	25	83	
11	20211CAI0008	UDAYAGIRI MUNNA	P	P	P	P	P	P	P	A	A	A	A	A	A	A	P	P	P	A	P	A	A	P	P	P	P	P	P	P	P	P	P	30	21	70
12	20211CCS0191	SHAIK MOHAMMED NAYEEM	A	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90	
13	20211CSE0294	KUMAR SWARNIM SAHA	A	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90	
14	20211CSE0845	B HARINATH REDDY	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	A	P	A	P	P	P	P	P	30	26	87	
15	20211CSD0006	MOPURI SAI SUJITH REDDY	P	P	A	A	P	P	P	P	P	P	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	26	87	
16	20211CSE0060	SRIRAM SAPTHAGIRI	P	A	P	P	P	P	A	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	26	87	

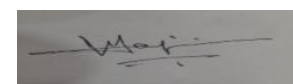


Presidency University, Bengaluru
Value Added Course Marksheet
School of Engineering

Course Code :	MATV020		Academic Year :		2021-2022		
Course Name :	Basics of Topology Optimization		Semester :		ODD Semester		
			Instructor-in-Charge Name :		Dr. Veerasha A Sajjanara		
			Instructor-in-Charge Employee ID :		PUNIV01496		
S. No	Roll No	Name	School SoE/SoL (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	20211ECE0043	CHAKALI VINOD	SOE	80	89	Y	
2	20211ECE0349	PANYAM VENKATA VIVEKANANDA REDDY	SOE	93	80	Y	
3	20211CSE0277	GUTTA BINDU SREE	SOE	87	92	Y	
4	20211ECE0366	GANGANNAGARI MAHESHWAR REDDY	SOE	93	88	Y	
5	20211CAI0173	B R YESHWANTH	SOE	77	87	Y	
6	20211CAI0176	BELDONA VISWESWARA	SOE	80	97	Y	
7	20211ISD0037	MUPPALA PRUDHVI RAJU	SOE	90	88	Y	
8	20211CSE0769	DUDDUGANTA VENKATA TEJESH REDDY	SOE	93	96	Y	
9	20211CST0043	VENNAPOOSA SRI MANJUNATH REDDY	SOE	90	94	Y	
10	20211CSE0736	THUMMALAPALLE VAMSHIKA	SOE	83	91	Y	
11	20211CAI0008	UDAYAGIRI MUNNA	SOE	70	99	Y	
12	20211CCS0191	SHAIK MOHAMMED NAYEEM	SOE	90	86	Y	
13	20211CSE0294	KUMAR SWARNIM SAHA	SOE	90	90	Y	
14	20211CSE0845	B HARINATH REDDY	SOE	87	94	Y	
15	20211CBD0006	MOPURI SAI SUJITH REDDY	SOE	87	95	Y	
16	20211CSE0060	SRIRAM SAPTHAGIRI	SOE	87	83	Y	

Name of Course Instructor : Dr. Veerasha A Sajjanara

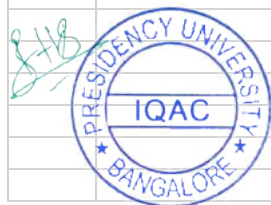
Employee ID of Course Instructor : PUNIV01496



Signature of Instructor-in-Charge



Signature of HOD





PRESIDENCY UNIVERSITY

(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

Name of the School: SoE

Name of the Department: Mathematics

Area of Specialization: Analysis

Name of the Faculty Member/Members: Dr. Sandeep Kumar

Title of the Value Added Course: Introduction to LATEX and BEAMER

Course Duration: [30 hours]

Course Code: MATV023

Introduction to the Course:

LaTeX is helpful in rendering a high-quality typesetting and is an existing approach for creating documents nowadays. It is an important tool to have a standard format used worldwide. Currently, many academic papers, scientific or technical papers use **LaTeX** to embrace a top-notch layout. It also eases the readability of a document by enhancing its appearance. **Beamer** is a powerful and flexible LaTeX class to create great looking presentations. This is the easiest way to prepare a presentation which use mathematical equations and operations. This article outlines the basis steps to making a Beamer slideshow: creating the title page, adding a logo, highlighting important points, making a table of contents and adding effects to the slideshow.

Course Outcomes: On successful completion of the course the students shall be able to :

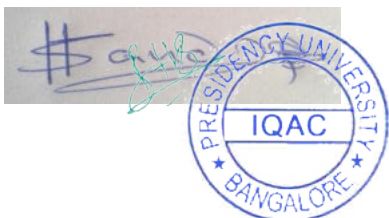
CO 01 : Acquire all necessary skills to be able to prepare a moderate scientific paper

CO 02 : able to prepare a Presentation using LaTeX

Course Content: [Briefly mention all the important topics to be covered in this course]

Fundamentals of Latex : Document structure, Formatting commands, Tables, Mathematical formulas, Theorem, proposition etc., symbols, Page layout and personal settings, Graphic in Latex, Tabulation, Creation of table of contents, resource and indexing, Creation of directory of resources with Bibtex, Arrange a presentation with beamer and seminar, Some important Latex packages. IEEE / Springer / Sci journal paper format.

Beamer : Themes, Formatting the title page, Slide preparation, Citation, reference command.



Signature of the Faculty Member



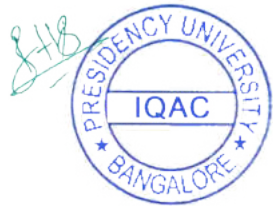
Approval by the HOD

Presidency University, Bengaluru
 Department of Mathematics
 School of Engineering

NOTE:1. If 1 or more classes are engaged on same day. Then change timings by repeating date
2. Enter date and timings according to the VAC class engaged

VAC DETAILS
 Total number of hours:30
 Value added Course(VAC) Name and Code: Introduction to Latex and Beamer and MATV023
 Name of the Instructor: Dr. Sandeep Kumar

S.No.	STUDENT ID NO	STUDENT NAME	06.11.21	06.11.21	07.11.21	07.11.21	13.11.21	13.11.21	14.11.21	14.11.21	20.11.21	20.11.21	21.11.21	21.11.21	27.11.21	27.11.21	28.11.21	28.11.21	04.12.21	04.12.21	05.12.21	05.12.21	11.12.21	11.12.21	12.12.21	12.12.21	18.12.21	18.12.21	19.12.21	19.12.21	25.12.21	25.12.21	Total classes conducted	Total classes attended	Percentage attended		
			10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12					
1	20211CDV0060	KONATHALA ANURAJ KUMAR REDDY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	29	97
2	20211CSE0740	GANGIREDDY VENKATA SAINATH REDDY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	29	97
3	20211ECE0048	AMAN KUMAR MANGALAM	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	29	97
4	20211CAI0132	UPKA DEVAIAH	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	29	97
5	20211CAI0171	BACHHU SATYA CHARAN	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28	93
6	20211CDV0004	MANISHMHA G	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	30	26	87
7	20211MCM0005	ANKITH B M	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	30	28	93
8	20211CST0005	SARIBALA VINAY KUMAR REDDY	P	P	P	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	30	27	90
9	20211CAI0198	TALLA SUNIL KUMAR	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	30	26	87
10	20211CV0002	CHIRADEEP REDDY R	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	30	29	97
11	20211CSE0030	HUSNA BEGUM	P	P	P	P	P	P	P	P	A	P	P	A	P	P	P	A	P	P	P	P	P	P	A	P	P	P	A	P	P	P	P	A	30	24	80
12	20211CSE0291	NANDANI	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	30	28	93
13	20211CSE0738	PALLE HARSHAVARDHAN REDDY	P	P	P	P	A	P	P	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90
14	20211CSE0090	METLA SRINIVAS	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	A	P	P	P	P	P	P	P	30	27	90
15	20211CSE0091	BOBBEPALLI LAKSHMAN PAVAN KUMAR	P	A	P	P	P	P	P	A	A	P	A	P	P	P	P	P	P	P	P	P	A	P	A	A	P	P	P	P	P	P	P	P	30	23	77
16	20211ECE0047	VELULA RAHUL REDDY	P	P	P	P	P	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	30	27	90
17	20211CIT0176	PRUTHVI R PATEL	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28	93



Presidency University, Bengaluru

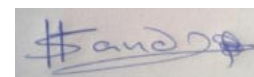
Value Added Course Marksheet

School of Engineering

Course Code :	MATV023		Academic Year :		2021-2022		
Course Name :	Introduction to Latex and Beamer		Semester :		ODD Semester		
			Instructor-in-Charge Name :		Dr. Sandeep Kumar		
			Instructor-in-Charge Employee ID :		PUNIV00472		
S. No	Roll No	Name	School (e.g. SOE/Sol etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	20211CDV0060	KONATHALA ANURAJ KUMAR REDDY	SOE	97	97	Y	
2	20211CSE0740	GANGIREDDY VENKATA SAINATH REDDY	SOE	97	89	Y	
3	20211ECE0048	AMAN KUMAR MANGALAM	SOE	97	82	Y	
4	20211CAI0132	LIPIKA DEVAIAH	SOE	97	87	Y	
5	20211CAI0171	BACHHU SATYA CHARAN	SOE	93	87	Y	
6	20211CDV0004	MANISHIMHA G	SOE	87	95	Y	
7	20211MCM0005	ANKITH B M	SOE	93	94	Y	
8	20211CST0005	SARIBALA VINAY KUMAR REDDY	SOE	90	81	Y	
9	20211CAI0198	TALLA SUNIL KUMAR	SOE	87	96	Y	
10	20211CIV0002	CHIRADEEP REDDY R	SOE	97	96	Y	
11	20211CSE0030	HUSNA BEGUM	SOE	80	94	Y	
12	20211CSE0291	NANDANI	SOE	93	96	Y	
13	20211CSE0738	PALLE HARSHAVARDHAN REDDY	SOE	90	85	Y	
14	20211CSE0090	METLA SRINIVAS	SOE	90	95	Y	
15	20211CSE0091	BOBBEPALLI LAKSHMAN PAVAN KUMAR	SOE	77	79	Y	
16	20211ECE0047	VEMULA RAHUL REDDY	SOE	90	87	Y	
17	20211CIT0176	PRUTHVI R PATEL	SOE	93	87	Y	

Name of Course Instructor : Dr. Sandeep Kumar

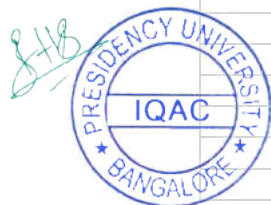
Employee ID of Course Instructor : PUNIV00472



Signature of Instructor-in-Charge



Signature of HOD





PRESIDENCY UNIVERSITY

(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

Name of the School: School of Engineering

Name of the Department: Mathematics

Area of Specialization: Mathematics (General)

Name of the Faculty Member: Dr. Meenakshi Shivhare

Title of the Value Added Course: Numerical Analysis

Course Duration: [30 hours]

Course Code: MATV034

Introduction to the Course:

Numerical analysis is one of part of mathematics. To deal with a physical problem one often tries to construct a mathematical model. These models in general lead to a differential equation or difference equation which cannot be solved analytically, in very few situations one can get analytic solution. Therefore, one has to adopt approximate methods or numerical methods. These methods are based on purely numerical leading to the estimation of the unknown at specific points in its interval of definition by simple arithmetic means initial value and boundary value problems involving either ordinary differential equation or partial differential equations may be solved by such methods. These numerical solutions do not establish physical laws, in general, but give the clear picture of the dependence of desired variable on the various parameters of the problem.


Course Outcomes:

On successful completion of the course the students shall be able to

- 01: Learn the possible maximum error in the numerical solutions.
- 02: Solution of algebraic and transcendental equations.
- 03: Solution of Linear system of equations.
- 04: Interpolation.
- 05: Solution of Linear system of equations.
- 06: Numerical solution of ordinary differential equations.

Course Content:

Truncation error, Bisection method, secant and regular-falsi method, general iterative method, rate of convergence, LU decomposition method, Gauss-Jacobi Iteration Method, Gauss-Seidel Iteration Method, Lagrange interpolation, Newton's Divided Difference Interpolation, Finite difference operators, Newton's forward difference interpolation, Newton's Backward difference interpolation, Numerical differentiation via Interpolation approach, Trapezoidal rule, Simpson's $1/3^{\text{rd}}$ rule, Simpson's $3/8^{\text{rd}}$ rule, Numerical solution of initial value problems via Runge-Kutta methods.


Signature of the Faculty Member


Approval by the HOD

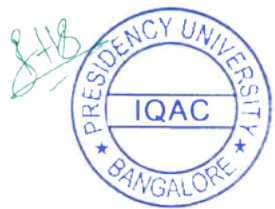


Presidency University, Bengaluru
 Department of Mathematics
 School of Engineering

VAC DETAILS
 Total number of hours:30
 Value added Course(VAC) Name and Code: Numerical Analysis and MATV034
 Name of the Instructor: Ms. Meenakshi Shivhare

NOTE:1. If 1 or more classes are engaged on same day. Then change timings by repeating date
 2. Enter date and timings according to the VAC class engaged

S.No	STUDENT ID NO	STUDENT NAME	06.11.21	06.11.21	07.11.21	07.11.21	13.11.21	13.11.21	14.11.21	14.11.21	20.11.21	20.11.21	21.11.21	21.11.21	27.11.21	27.11.21	28.11.21	28.11.21	04.12.21	04.12.21	05.12.21	05.12.21	11.12.21	11.12.21	12.12.21	12.12.21	18.12.21	18.12.21	19.12.21	19.12.21	25.12.21	25.12.21	Total classes conducted	Total classes attended	Percentage attended
			10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12			
1	20211CSE0282	KEN JOHN JAMES	P	A	P	P	P	P	A	P	P	P	A	P	P	P	P	P	P	P	A	P	A	P	P	P	P	A	P	P	P	30	24	80	
2	20211ECE0361	PODARALLA CHANDRAKANTH REDDY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	30	28	93	
3	20211CBE0003	BUSI NARENDRA REDDY	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	A	P	P	P	30	26	87		
4	20211CBE0034	PODARALLA AKSHAY KUMAR	A	P	P	P	P	A	P	P	P	A	P	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	A	A	P	30	23	77	
5	20211CST0046	ASHIQR RAHAMAN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	30	29	97	
6	20211CSE0859	PATHAN SOHEL KHAN	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	29	97	
7	20211CSE0757	BASTIPADU ARAVIND TEJA	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	29	97	
8	20211CBE0018	PANTHANGI MANOJ KUMAR	P	P	P	P	P	P	A	P	A	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	A	P	30	25	83
9	20211ECE0010	INDRANIL PRASAD SURESH AL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	30	29	97	
10	20211CSE0160	VIVEK C	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	30	27	90	
11	20211CSE0783	SHAIK AKRAM	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	30	28	93	
12	20211CSE0327	B MAHENDRA REDDY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	30	27	90	
13	20211CSE0476	VIKASH KUMAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28	93	
14	20211CSC0070	SAANJH MOHANTY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	30	29	97	
15	20211CSE0326	SIDDAVATAM NAVANEETH KARTHIK	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	30	27	90	
16	20211CDV0006	KOLLI SNEHITH REDDY	P	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	30	27	90	
17	20211CSE0790	JAGADESHRAM SUNIL SEERVI	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P	A	A	A	P	P	P	P	P	P	30	25	83	
18	20211CBE0013	ANANDREDDY VENKATA SIVANANDA	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	30	28	93	
19	20211CSE0873	MUPPALA NITHESH KUMAR RAJU	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	29	97	
20	20211CIT0025	R JAGADESWAR REDDY	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	A	P	P	P	P	P	P	P	P	P	30	27	90	
21	20211CIT0022	CHAPARALA JAYA PRAKASH	P	P	A	A	P	P	P	P	P	P	P	P	A	P	P	P	A	P	A	P	A	P	P	P	P	P	P	P	P	30	24	80	



Presidency University, Bengaluru
Value Added Course Marksheet
School of Engineering

Course Code :	MATV034		Academic Year :			2021-2022	
Course Name :	Numerical Analysis		Semester :			ODD Semester	
			Instructor-in-Charge Name :			Ms. Meenakshi Shivhare	
			Instructor-in-Charge Employee ID :			PUNIV01625	
S. No	Roll No	Name	School (e.g. SoE/SOL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	20211CSE0282	KEN JOHN JAMES	SOE	80	92	Y	
2	20211ECE0361	PODARALLA CHANDRAKANTH REDDY	SOE	93	90	Y	
3	20211CBD0003	BUSI NARENDRA REDDY	SOE	87	87	Y	
4	20211CBC0034	PODARALLA AKSHAY KUMAR	SOE	77	95	Y	
5	20211CST0046	ASHIQUR RAHAMAN	SOE	97	97	Y	
6	20211CSE0859	PATHAN SOHEL KHAN	SOE	97	81	Y	
7	20211CSE0757	BASTIPADU ARAVIND TEJA	SOE	97	80	Y	
8	20211CBC0018	PANTHANGI MANOJ KUMAR	SOE	83	86	Y	
9	20211ECE0010	MOHAMMED ABOBAKR SALEH AL MEHD	SOE	97	86	Y	
10	20211CSE0160	VIVEK C	SOE	90	88	Y	
11	20211CSE0783	SHAIK AKRAM	SOE	93	85	Y	
12	20211CSE0327	B MAHENDRA REDDY	SOE	90	92	Y	
13	20211CSE0476	VIKASH KUMAR	SOE	93	95	Y	
14	20211CCS0070	SAANJH MOHANTY	SOE	97	82	Y	
15	20211CSE0326	SIDDAVATAM NAVANEETH KARTHIK	SOE	90	87	Y	
16	20211CDV0006	KOLLI SNEHITH REDDY	SOE	90	93	Y	
17	20211CSE0790	JAGADEESHARAM SUNIL SEERVI	SOE	83	86	Y	
18	20211CBC0013	ANNAREDDY VENKATA SIVANANDA RED	SOE	93	100	Y	
19	20211CSE0873	MUPPALA NITHESH KUMAR RAJU	SOE	97	91	Y	
20	20211CIT0025	R JAGADESWAR REDDY	SOE	90	98	Y	
21	20211CIT0022	CHAPARALA JAYA PRAKASH	SOE	80	80	Y	

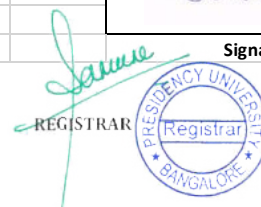
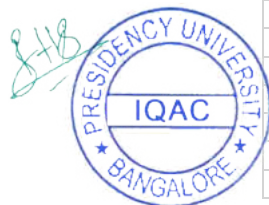
Name of Course Instructor : Ms. Meenakshi Shivhare
Employee ID of Course Instructor : PUNIV01625

Meenakshi Shivhare

Signature of Instructor-in-Charge

S. Mat

Signature of HOD





PRESIDENCY UNIVERSITY

(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

Name of the School: School of Engineering

Name of the Department: Mathematics

Area of Specialization: Mathematics (General)

Name of the Faculty Member: Dr. Nagaraja B

Title of the Value-Added Course: Introduction to Fluid Mechanics

Course Duration: [30 hours]

Course Code: MATV037

Introduction to the Course:

In this introductory course on Fluid Mechanics, we first provide basic terminologies of fluid mechanics and knowledge about the basic equations of flow, energy and mass transfer of inviscid fluids. Further, we explain the Navier-Stokes equation and its applications. In continuation, we explain the streamlines and stream functions, two dimensional flows, gas dynamics and problems regarding the same. In addition to that, giving introduction to flows through different geometries and etc.

Course Outcomes:

On successful completion of the course the students shall be able to

01: define and apply the basic equations flow.

02: model the real-world flow problems mathematically and obtain numerical as well as analytical solutions for the same.

03: analyze the heat and mass transfer in different types of fluid flows.

Course Content:

Basic Definitions and Properties of Fluids, Motion of inviscid fluids, Two-dimensional Flows of inviscid fluids, Motion of Viscous fluids, Gas dynamics.



Signature of the Faculty Member

Approval by the HOD

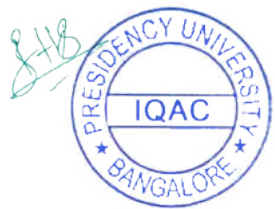


Presidency University, Bengaluru
 Department of Mathematics
 School of Engineering

NOTE-1: If 1 or more classes are engaged on same day, Then change timings by repeating date
2. Enter date and timings according to the VAC class engaged

VAC DETAILS
 Total number of hours:30
 Value added Course(VAC) Name and Code: Introduction to Fluid Mechanics and MATV037
 Name of the Instructor: Mr. Nagaraja B

S.No.	STUDENT ID NO	STUDENT NAME	06.11.21		07.11.21		08.11.21		09.11.21		10.11.21		11.11.21		12.11.21		13.11.21		14.11.21		15.11.21		16.11.21		17.11.21		18.11.21		19.11.21		20.11.21		21.11.21		22.11.21		23.11.21		24.11.21		25.11.21		26.11.21		Total classes conducted	Total classes attended	Percentage attended		
			10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12	10-11	11-12									
1	20211CSE0308	RUTHIKA S SHETTY	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	25	83		
2	20211CSE0086	TULSI RAM REDDY.K	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	30	100	
3	20211CSE0015	TIRUMALA SETTY MOUNIKA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	26	87	
4	20211CSE0116	BANDI SHASHIDHAR REDDY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	24	80	
5	20211CSD0080	RAMANUJAM D K	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	22	73	
6	20211CSE0115	BOGIREDDY SHARATH CHANDRA REDDY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	29	97	
7	20211CSD0028	VIBHA SWAMY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	24	80	
8	20211PET0027	SYED LISMAN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90	
9	20211CST0034	BHARAT CHAND K	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	24	80	
10	20211CAI0193	DEEPAK V GOWDA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	25	83	
11	20211CSD0027	DARIPINENI TEJA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90	
12	20211CSE0114	REDDY MASU TEJA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	26	87	
13	20211CIT0044	SEETHAMMAGARI BHAVYA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90
14	20211CSE0342	MORAM RANGA UPENDRA REDDY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90
15	20211CSD0192	SAHANA REDDY R	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90
16	20211CSE0077	VEERAJINNAPPA GARI HEMAVATHI	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	25	83

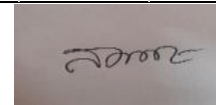


Presidency University, Bengaluru
Value Added Course Marksheet
School of Engineering

Course Code :	MATV037		Academic Year :		2021-2022		
Course Name :	Introduction to Fluid Mechanics		Semester :		ODD Semester		
			Instructor-in-Charge Name :		Mr. Nagaraja B		
			Instructor-in-Charge Employee ID :		PUNIV01623		
S. No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	20211CSE0308	RUTHIKA S SHETTY	SOE	83	87	Y	
2	20211CSE0086	TULSI RAM REDDY.K	SOE	100	83	Y	
3	20211CST0015	TIRUMALA SETTY MOUNIKA	SOE	87	81	Y	
4	20211CSE0116	BANDI SHASHIDHAR REDDY	SOE	80	82	Y	
5	20211CSD0080	RAMANUJAM D K	SOE	73	90	Y	
6	20211CSE0115	BOGIREDDY SHARATH CHANDRA REDDY	SOE	97	79	Y	
7	20211CSD0028	VIBHA SWAMY	SOE	80	82	Y	
8	20211PET0027	SYED USMAN	SOE	90	89	Y	
9	20211CST0034	BHARAT CHAND K	SOE	80	86	Y	
10	20211CAI0193	DEEPAK V GOWDA	SOE	83	82	Y	
11	20211CSD0027	DARIPINENI TEJA	SOE	90	85	Y	
12	20211CSE0114	REDDY MASU TEJA	SOE	87	87	Y	
13	20211CIT0044	SEETHAMMAGARI BHAVYA	SOE	90	89	Y	
14	20211CSE0342	MORAM RANGA UPENDRA REDDY	SOE	90	80	Y	
15	20211CSD0192	SAHANA REDDY R	SOE	90	84	Y	
16	20211CSE0077	VEERAJINNAPPA GARI HEMAVATHI	SOE	83	91	Y	

Name of Course Instructor : Mr. Nagaraja B

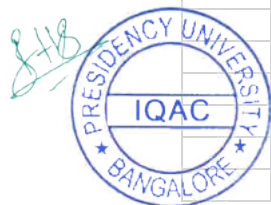
Employee ID of Course Instructor : PUNIV01623



Signature of Instructor-in-Charge



Signature of HOD





PRESIDENCY UNIVERSITY

(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

Name of the School: School of Engineering

Name of the Department: Mathematics

Area of Specialization: Mathematics

Name of the Faculty Member/Members: Dr Rajeshwari S

Title of the Value Added Course: Maxima Programming Course Duration: [30 hours] [From to]

Course Code: MATV011

Introduction to the Course: [Write about a para, indicating the purpose of this course, nature of the course and prerequisites of the course] [It is same as our course description in the course hand out]

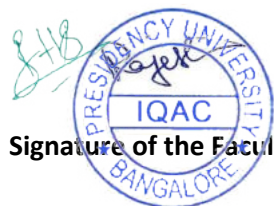
Maxima is a general-purpose system, and special case calculations such as factorization of large numbers, manipulation of large polynomials etc. It is a system for the manipulation of symbolic and numerical expressions, including differentiation, integration, Taylor series, sets, vectors, matrices and tensors. Maxima yields high precision numerical results by using exact fractions, arbitrary-precision integers and variable-precision floating point numbers. Maxima can plot functions and data in two and three dimensions.

Course Outcomes: On successful completion of the course the students shall be able to:

01. Formulate and develop Mathematical arguments in a logical manner.
02. Acquire good knowledge and understanding in advanced areas of Mathematics and Statistics.
03. Understand, formulate and use quantitative models arising in social sciences, Business and other contexts.

Course Content: [Briefly mention all the important topics to be covered in this course]

Introduction to Maxima and commands for derivatives and nth derivatives, maxima commands for plotting functions, nth derivative without Leibnitz rule and with Leibnitz rule. Obtaining partial derivative for some standard functions, verification of Euler's theorem, its extension and Jacobian, maxima commands for reduction formula with or without limits. Implementing vector form of a line and vector form of a plane.



Signature of the Faculty Member

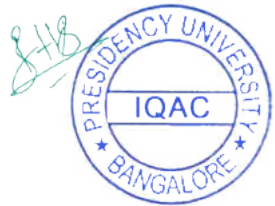
Approval by the HOD



Presidency University, Bengaluru
 Department of Mathematics
 School of Engineering

NOTE 1. If 1 or more classes are engaged on same day. Then change timings by repeating date
2. Enter date and timings according to the VAC class engaged

S.No	STUDENT ID NO	STUDENT NAME	02.04.22	02.04.22	03.04.22	03.04.22	09.04.22	09.04.22	10.04.22	10.04.22	16.04.22	16.04.22	17.04.22	17.04.22	23.04.22	23.04.22	24.04.22	24.04.22	30.04.22	30.04.22	01.05.22	01.05.22	07.05.22	07.05.22	08.05.22	08.05.22	14.05.22	14.05.22	21.05.22	21.05.22	22.05.22	22.05.22	Total classes conducted	Total classes attended	Percentage attended
			11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1			
1	20211CSE0856	VISHNU NANDAN A R	A	P	P	A	P	P	P	P	P	P	P	P	P	A	P	A	P	A	P	P	P	P	P	A	P	A	P	P	P	P	30	23	77
2	20211CSE0802	KADAPA SYED MD OWAIS HUSSAIN	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	A	P	P	P	30	25	83
3	20211CE0083	ALPHY LAURANCE	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	29	97
4	20211SR0017	P L THYAGARAJAN	P	P	A	P	A	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	A	P	P	30	24	80
5	20211CSE0786	ROHITH M	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	30	28	93	
6	20211SD0034	KISHAN K	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	P	P	30	26	87	
7	20211ECE0022	KAREEMUDDIN MOHAMMED AZHAN	P	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	A	A	P	P	P	P	30	24	80	
8	20211CE0086	SHREYA P V	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	30	27	90	
9	20211ECE0362	P V SWAROOP	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	30	28	93	
10	20211ECE0356	BHATTU YESWANTH KUMAR	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P	A	A	P	P	P	P	P	P	30	26	87
11	20211CDV0005	ARAVA VIGNESH RAJU	A	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P	A	30	25	83	
12	20211SR0086	SARTHAK MISHRA	P	A	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28	93
13	20211CE0087	SAWOOD AHMED	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	30	27	90
14	20211CST0128	MOHAMMED FAQRUDDIN TAYEEB	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	30	27	90



Presidency University, Bengaluru
Value Added Course Marksheet
School of Engineering

Course Code :	MATV011		Academic Year :			2021-2022	
Course Name :	Maxima Programming		Semester :			EVEN Semester	
			Instructor-in-Charge Name :			Dr. Rajeshwari S	
			Instructor-in-Charge Employee ID :			PUNIV01000	
S. No	Roll No	Name	School (e.g. SOE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	20211CSE0856	VISHNU NANDAN A R	SOE	77	87	Y	
2	20211CSE0802	KADAPA SYED MD OWAIS HUSSAIN	SOE	83	99	Y	
3	20211CEI0083	ALPHY LAURANCE	SOE	97	88	Y	
4	20211ISR0017	P L THIYAGARAJAN	SOE	80	98	Y	
5	20211CSE0786	ROHITH M	SOE	93	90	Y	
6	20211ISD0034	KISHAN K	SOE	87	80	Y	
7	20211ECE0022	KAREEMUDDIN MOHAMMED AZHAN	SOE	80	81	Y	
8	20211CEI0086	SHREYA P V	SOE	90	85	Y	
9	20211ECE0362	P V SWAROOP	SOE	93	80	Y	
10	20211ECE0356	BHATTU YESWANTH KUMAR	SOE	87	91	Y	
11	20211CDV0005	ARAVA VIGNESH RAJU	SOE	83	83	Y	
12	20211ISR0086	SARTHAK MISHRA	SOE	93	94	Y	
13	20211CEI0087	SAWOOD AHMED	SOE	90	98	Y	
14	20211CST0128	MOHAMMED FAQRUDDIN TAYEEB	SOE	90	81	Y	

Name of Course Instructor : Dr. Rajeshwari S

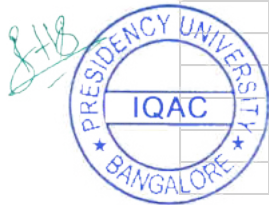
Employee ID of Course Instructor : PUNIV01000

Rajeshwari S

Signature of Instructor-in-Charge

S. Mat

Signature of HOD





PRESIDENCY UNIVERSITY

(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

Name of the School: School of Engineering

Name of the Department: Mathematics

Area of Specialization: Mathematics (General)

Name of the Faculty Member: Dr. Sindhu S.

Title of the Value Added Course: Introduction to Origin Software

Course Duration: [30 hours]

Course Code: MATV029

Introduction to the Course:

Origin is the data analysis and graphing software has wide range of significance in industries, academia and government laboratories worldwide. Origin offers an easy-to-use interface for beginners, combined with the ability to perform advanced customization as the application becomes familiar. Origin makes it easy to draw contour graphs. It has eloquence in engineering mathematics, curve fitting and its techniques can be employed in the physical problem-solving process. The course includes interpreting the data in terms distinct graph types, examine the data points and to introduce the apps in Origin.

Course Outcomes:

On successful completion of the course the students shall be able to

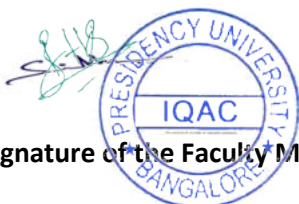
01: Plot graphs using **Origin Software** which enables to emphasize the data in a systematized manner for a wide range of real-world problems.

02: Display the numerical results with annotated graphics.

03: Create and customize publication-quality graphs.

Course Content:

Origin environment, learning basic interface of Origin, column plot, bar and stacked plots, scatter plot, line plot and customizing graphs to presentation quality levels, merging graphs, functional plots, mathematics on data and plot in varied 3D visualization.



Signature of the Faculty Member

Approval by the HOD

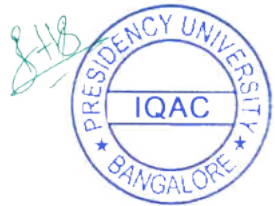


Presidency University, Bengaluru
 Department of Mathematics
 School of Engineering



NOTE: 1. If 1 or more classes are engaged on same day, Then change timings by repeating date
 2. Enter date and timings according to the VAC class engaged

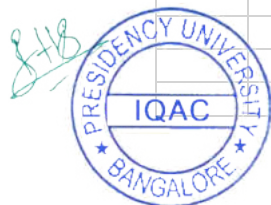
VAC DETAILS
 Total number of hours:30
 Value added Course(VAC) Name and Code: Introduction to Origin Software and MATV029
 Name of the Instructor: Dr. Sindhu S

S.No	STUDENT ID NO	STUDENT NAME	02.04.22	02.04.22	03.04.22	03.04.22	09.04.22	09.04.22	10.04.22	10.04.22	16.04.22	16.04.22	17.04.22	17.04.22	23.04.22	23.04.22	24.04.22	24.04.22	30.04.22	30.04.22	01.05.22	01.05.22	07.05.22	07.05.22	08.05.22	08.05.22	14.05.22	14.05.22	21.05.22	21.05.22	22.05.22	22.05.22	Total classes conducted	Total classes attended	Percentage attended	
			11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1				
1	20211COM0020	HARSHITHA M	P	P	P	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28	93
2	20211CCS0057	ASHISH S	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	30	27	90
3	20211CCS0058	S SURYA NARAYANAN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	30	100
4	20211CIT0072	SHREEESWINI R KOLEKAR	P	P	P	P	P	P	A	P	P	P	P	A	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	30	26	87
5	20211CS00052	SWARNA LOHIT	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	30	28	93	
6	20211CSE0256	KRUTHI C	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	30	28	93	
7	20211CSG0012	JAYANTH V	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	30	27	90	
8	20211CCS0059	HRUTHIK T N	P	P	P	P	A	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90	
9	20211COM0021	T BHAVITHA REDDY	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	30	28	93
10	20211CDV0017	AMRUTHA R LAKSHMI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	30	100
11	20211CSG0014	HARSHITHA M	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	29	97
12	20211CS00053	PREM KANNA	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	29	97



Presidency University, Bengaluru
Value Added Course Marksheet
School of Engineering

S. No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	20211COM0020	HARSHITHA M	SOE	93	81	Y	
2	20211CCS0057	ASHISH S	SOE	90	96	Y	
3	20211CCS0058	S SURYA NARAYANAN	SOE	100	83	Y	
4	20211CIT0072	SHREEJESWINI R KOLEKAR	SOE	87	89	Y	
5	20211CSD0052	SWARNA LOHIT	SOE	93	86	Y	
6	20211CSE0256	KRUTHI C	SOE	93	89	Y	
7	20211CSG0012	JAYANTH V	SOE	90	79	Y	
8	20211CCS0059	HRUTHIK T N	SOE	90	84	Y	
9	20211COM0021	T BHAVITHA REDDY	SOE	93	97	Y	
10	20211CDV0017	AMRUTHA R LAKSHMI	SOE	100	96	Y	
11	20211CSG0014	HARSHITHA M	SOE	97	80	Y	
12	20211CSD0053	PREM KANNA	SOE	97	83	Y	
Name of Course Instructor :		Dr. Sindhu S					
Employee ID of Course Instructor :		PUNIV01595					
							
						Signature of Instructor-in-Charge	
							
						Signature of HOD	





PRESIDENCY UNIVERSITY

(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

Name of the School: School of Engineering

Name of the Department: Mathematics

Area of Specialization: Inferential Statistics

Name of the Faculty Member: Dr. Rajashi Chatterjee

Title of the Value Added Course: Introduction to Applied Statistics

Course Duration: [30 hours]

Course Code: MATV031

Introduction to the Course:

Descriptive statistics is limited to the analysis of the nature of a quantitative data set. On the other hand, inferential statistics is that branch of the subject that equips an individual with the necessary tools and techniques to predict generalized results about the population in general based on data collected with respect to a sample. Given its immense potential inferential statistics is not only included as a very important course as a part of research methodology programs, it also finds widespread applications in emerging areas such as in the field of data science. This course aims at covering the basic framework of the theory of inferential statistics, limiting the discussions to only large samples but at the same time preparing an individual with sufficient knowledge for tackling advanced statistical predictive analysis and validation.

Course Outcomes:

On successful completion of the course the students shall be able to

- 01: Identify suitable probability distributions to model real life situations
- 02: Evaluate the sample mean and variance for large samples
- 03: Analyze a proposed hypothesis and test its feasibility

Pre-requisites:

Classical Probability, Conditional probability, Random variables

Course Content:

Popular theoretical probability distributions, CLT, Introduction to sampling and sampling distributions, Calculation of sample mean and variance (limited only to large samples), Introduction to estimation, Basics of testing of hypothesis (limited to only large samples)



Signature of the Faculty Member

S. Mat

Approval by the HOD

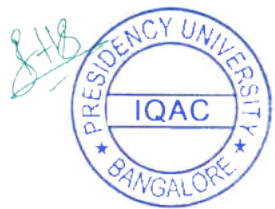


Presidency University, Bengaluru
 Department of Mathematics
 School of Engineering

VAC DETAILS
 Total number of hours:30
 Value added Course(VAC) Name and Code: Introduction to Applied Statistics and MATV031
 Name of the Instructor: Dr. Rajashi Chatterjee

NOTE:1. If 1 or more classes are engaged on same day. Then change timings by repeating date
 2. Enter date and timings according to the VAC class engaged

S.No	STUDENT ID NO	STUDENT NAME	02.04.22		02.04.22		03.04.22		03.04.22		09.04.22		10.04.22		10.04.22		16.04.22		17.04.22		23.04.22		23.04.22		24.04.22		24.04.22		30.04.22		30.04.22		01.05.22		01.05.22		07.05.22		07.05.22		08.05.22		08.05.22		14.05.22		14.05.22		21.05.22		21.05.22		22.05.22		22.05.22		Total classes conducted	Total classes attended	Percentage attended
			11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1															
1	20211CSD0061	DARSHAN NAIK N	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28	93									
2	20211COM0025	MD RASHID	P	P	P	A	P	P	A	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	24	80							
3	20211CSG0019	SUHAAS R	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	26	87						
4	20211EC60077	NIKHIL SAI R	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	29	97					
5	20211CIT0077	POOITHA U	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	23	77					
6	20211CIV0011	CHANDAN GOWDA T S	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90				
7	20211CAI0092	B A GHULAM MOHAMMED HASAN RAZA	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90					
8	20211CSE0273	VYSHNAVI G N	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	24	80					
9	20211CSE0274	CHAITRA K	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	30	100			
10	20211CIV0012	CHINNU K R	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28	93					
11	20211CS0043	AJAY	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	24	80					
12	20211CSG0001	AMAN KUMAR	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	25	83				
13	20211CSE0210	VENNAPUSA MOKSHA SRAVANI	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28	93					
14	20211CSE0216	GOWTHAMRAJ J	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28	93				
15	20211CSE0217	TEJAS	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28	93					
16	20211CBD0022	MOHAMMED	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	26	87					

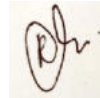


REGISTRAR

Presidency University, Bengaluru
Value Added Course Marksheet
School of Engineering

Course Code :	MATV031		Academic Year :		2021-2022		
Course Name :	Introduction to Applied Statistics		Semester :		EVEN Semester		
			Instructor-in-Charge Name :		Dr. Rajashi Chatterjee		
			Instructor-in-Charge Employee ID :		PUNIV01631		
S. No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	20211CSD0061	DARSHAN NAIK N	SOE	93	79	Y	
2	20211COM0025	MD RASHID	SOE	80	86	Y	
3	20211CSG0019	SUHAAS R	SOE	87	79	Y	
4	20211ECE0077	NIKHIL SAI R	SOE	97	96	Y	
5	20211CIT0077	POOJITHA U	SOE	77	83	Y	
6	20211CIV0011	CHANDAN GOWDA T S	SOE	90	82	Y	
7	20211CAI0092	B A GHULAM MOHAMMED HASAN RAZA	SOE	90	85	Y	
8	20211CSE0273	VYSHNAVI G N	SOE	80	100	Y	
9	20211CSE0274	CHAITRA K	SOE	100	84	Y	
10	20211CIV0012	CHINNU K R	SOE	93	85	Y	
11	20211CCS0043	AJAY	SOE	80	87	Y	
12	20211CSG0001	AMAN KUMAR	SOE	83	98	Y	
13	20211CSE0210	VENNAPUSA MOKSHA SRAVANI	SOE	93	94	Y	
14	20211CSE0216	GOWTHAMRAJ J	SOE	93	84	Y	
15	20211CSE0217	TEJAS	SOE	93	91	Y	
16	20211CBD0022	MOHAMMED	SOE	87	81	Y	

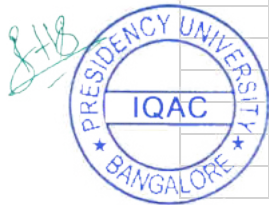
Name of Course Instructor : Dr. Rajashi Chatterjee
Employee ID of Course Instructor : PUNIV01631



Signature of Instructor-in-Charge



Signature of HOD





PRESIDENCY UNIVERSITY

(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

Name of the School: School of Engineering

Name of the Department: Mathematics

Area of Specialization: Optimization in Artificial Intelligence

Name of the Faculty Member: Dr. Indu Bala

Title of the Value Added Course: Math with Python

Course Duration: 30 hours

Course Code: MATV035

Introduction to the Course:

Python is an interpreted, object-oriented, high-level programming language with dynamic semantics. Its high-level built in data structures, combined with dynamic typing and dynamic binding, make it very attractive for Mathematical Application Development, as well as for use as a scripting or glue language to connect existing components together. Python's simple, easy to learn syntax emphasizes readability and therefore reduces the cost of program maintenance. Python supports modules and packages, which encourages program modularity and code reuse. It is extensively used in mathematics, statistics, data science, artificial intelligence, machine learning, web designing and optimization. Now-a-days, it is very popular to solve many complex mathematical problems with high level of accuracy. It has played a crucial role in many important discoveries, and has been the basis for thousands of technical report and findings. The level of teaching assumes that the student has some fluency in engineering mathematics and can employ the mathematics approach to problem solving. The coverage includes symbolic manipulations, numerical calculations and its diverse interactive graphics in mathematics, prediction of data through classification and regression.

Course Outcomes:

On successful completion of the course the students shall be able to

01: Solve a wide range of mathematical problems using python.

02: Modify the unorganized data into organized form and can find out the right insights.

Course Content:

Python basics: environment and basic syntax, program and modules, Introduction of math library, functions, printing and strings, loops, sequences, numerical evaluations of basic mathematics problems e.g. equations, area, volume, transcendental functions etc. , plotting mathematical problems for higher dimensions, prediction of data through classification and regression, Plotting the data's insights .

Signature of the Faculty Member

Approval by the HOD

REGISTRAR

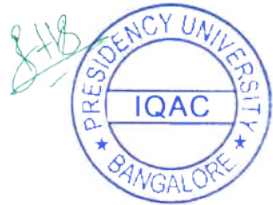


Presidency University, Bengaluru
 Department of Mathematics
 School of Engineering

NOTE: 1. If 1 or more classes are engaged on same day. Then change timings by repeating date
 2. Enter date and timings according to the VAC class engaged

VAC DETAILS
 Total number of hours:30
 Value added Course(VAC) Name and Code: Math with Python and MATV035
 Name of the Instructor: Dr. Indu Bala

S.No	STUDENT ID NO	STUDENT NAME	02.04.22	02.04.22	03.04.22	03.04.22	09.04.22	09.04.22	10.04.22	10.04.22	16.04.22	16.04.22	17.04.22	17.04.22	23.04.22	23.04.22	24.04.22	24.04.22	30.04.22	30.04.22	01.05.22	01.05.22	07.05.22	07.05.22	08.05.22	08.05.22	14.05.22	14.05.22	21.05.22	21.05.22	22.05.22	22.05.22	Total classes conducted	Total classes attended	Percentage attended	
			11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1				
1	20211MEC0020	AFREEN SADDAF	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90
2	20211COM0029	PAAVANA GOWDA	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P	P	A	A	P	P	A	P	P	P	P	P	30	25	83	
3	20211ECE0102	BHOOMIKA A M	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	30	28	93	
4	20211COM0030	RAGHU VEER V	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	30	26	87
5	20211EEE0007	GAGANMURTHY	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	29	97
6	20211CDV0030	K VAMSI KRISHNA	P	P	P	P	P	P	P	P	P	A	P	A	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P	30	25	83
7	20211CSE0362	ANIRUDH MANJUNATH SANDILYA	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	A	A	P	P	P	P	30	25	83
8	20211ECE0103	ASHFAAN AHMED	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	A	P	30	28	93
9	20211CAI0113	HARISHANKAR B L	P	P	P	P	P	P	P	P	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28	93
10	20211CAI0114	M H USAMA AHMED	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28	93
11	20211CSE0363	MADHU KUMAR V	A	P	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90
12	20211ISE0012	PRARTHANA M ASHOK	A	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	30	25	83
13	20211ECE0104	SHAIK HAASHIM	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	A	P	P	P	P	P	P	P	P	P	30	26	87
14	20211CSE0364	SANDESH W D	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	30	28	93
15	20211CSE0365	DHRITESHREE M R	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P	30	28	93
16	20211CAI0115	AISHWARYA VILAS PATIL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	30	100
17	20211COM0031	NAGA SAI GAYATRI GADE	A	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	30	26	87
18	20211ECE0105	RAHUL	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	P	P	P	30	27	90



Presidency University, Bengaluru
Value Added Course Marksheet
School of Engineering

S. No	Roll No	Name	School SoE/Sol (e.g. SoE/Sol etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	20211MEC0020	AFREEN SADDAF	SOE	90	91	Y	
2	20211COM0029	PAAVANA GOWDA	SOE	83	79	Y	
3	20211ECE0102	BHOOMIKA A M	SOE	93	88	Y	
4	20211COM0030	RAGHU VEER V	SOE	87	97	Y	
5	20211EEE0007	GAGANMURTHY	SOE	97	94	Y	
6	20211CDV0030	K VAMSI KRISHNA	SOE	83	93	Y	
7	20211CSE0362	ANIRUDH MANJUNATH SANDILYA	SOE	83	89	Y	
8	20211ECE0103	ASHFAAN AHMED	SOE	93	93	Y	
9	20211CAI0113	HARISHANKAR B L	SOE	93	89	Y	
10	20211CAI0114	M H USAMA AHMED	SOE	93	85	Y	
11	20211CSE0363	MADHU KUMAR V	SOE	90	80	Y	
12	20211ISE0012	PRARTHANA M ASHOK	SOE	83	84	Y	
13	20211ECE0104	SHAIK HAASHIM	SOE	87	86	Y	
14	20211CSE0364	SANDESH W D	SOE	93	97	Y	
15	20211CSE0365	DHRITESHREE M R	SOE	93	92	Y	
16	20211CAI0115	AISHWARYA VILAS PATIL	SOE	100	99	Y	
17	20211COM0031	NAGA SAI GAYATRI GADE	SOE	87	83	Y	
18	20211ECE0105	RAHUL	SOE	90	79	Y	

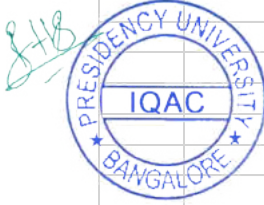
Name of Course Instructor : Dr. Indu Bala
Employee ID of Course Instructor : PUNIV01650



Signature of Instructor-in-Charge



Signature of HOD





PRESIDENCY UNIVERSITY

(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

Name of the School: School of Engineering

Name of the Department: Mathematics

Area of Specialization: Mathematics (General)

Name of the Faculty Member: Dr. Naveenkumar S. H.

Title of the Value Added Course: Introduction to complex analysis and partial differential equation.

Course Duration: [30 hours]

Course Code: MATV038

Introduction to the Course:

The complex analysis is known as the theory of the function of complex variables. It is helpful in many branches such as applied mathematics, combinatoric, etc. By extension, the use of complex analysis also has applications in the field of nuclear, electrical engineering, etc. It contains limit, continuity, differentiability, integrability, and convergence of a sequence which helps engineering students to build the concept. Partial differential equations are ubiquitous in mathematically oriented scientific fields such as engineering.

Course Outcomes:

On successful completion of the course the students shall be able to

- 01: know complex numbers and its properties.
02. know about the partial differential equation.
03. find the numerical solution of the partial differential equation.

Course Content:

Complex numbers, geometric representation, powers and roots of complex numbers. Functions of a complex variable: Limit, Continuity, Differentiability, Analytic functions, Cauchy-Riemann equations, Laplace equation, Harmonic functions, Harmonic conjugates. Elementary Analytic functions (polynomials, exponential function, trigonometric functions), Complex logarithm function, Branches and Branch cuts of multiple valued functions. Complex integration, Cauchy's integral theorem, Cauchy's integral formula. Liouville's Theorem and Maximum-Modulus theorem, Power series and convergence, Taylor series and Laurent series. Zeros, Singularities and its classifications, Residues, Rouches theorem (without proof), Argument principle (without proof), Residue theorem and its applications to evaluating real integrals and improper integrals.

Introduction to PDEs, basic concepts, Linear and quasi-linear first order PDE, Second order PDE and classification of second order semi-linear PDE, Canonical form.. Cauchy problems. D' Alembert's formula and Duhamel's principle for one dimensional wave equation, Laplace and Poisson equations, Maximum principle with application.

Signature of the Faculty Member

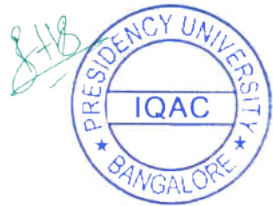
Approval by the HOD

Presidency University, Bengaluru
 Department of Mathematics
 School of Engineering

VAC DETAILS
 Total number of hours:30
 Value added Course(VAC) Name and Code: Introduction to complex analysis and partial differential equations and MATV038
 Name of the instructor: Dr. Naveenkumar S H

NOTE: 1. If 1 or more classes are engaged on same day. Then change timings by repeating date
 2. Enter date and timings according to the VAC class engaged



S.No	STUDENT ID NO	STUDENT NAME	02.04.22		02.04.22		03.04.22		03.04.22		09.04.22		09.04.22		10.04.22		10.04.22		16.04.22		17.04.22		17.04.22		23.04.22		23.04.22		24.04.22		24.04.22		30.04.22		30.04.22		01.05.22		01.05.22		07.05.22		07.05.22		08.05.22		08.05.22		14.05.22		14.05.22		21.05.22		21.05.22		22.05.22		22.05.22		Total classes conducted	Total classes attended	Percentage attended
			11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1																	
1	202111ST0006	K RAHUL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90										
2	20211CSG0029	MOHAMMED ABDUL UMAR	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	25	83									
3	20211CON0036	RACHANA GOVINDA SHETTY	A	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	24	80									
4	20211ECE0127	MONISH SUBBANA H S	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	29	97								
5	20211CS00134	HEVITHA M	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	30	100								
6	202111ST0007	D P RAKSHITHA	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	29	97									
7	20211ECE0128	SUGNYANI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	29	97								
8	20211CSE0397	SWATHI P S	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	26	87									

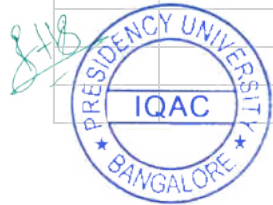


Presidency University, Bengaluru

Value Added Course Marksheet

School of Engineering

Course Code :	MATV038		Academic Year :		2021-2022		
Course Name :	Introduction to complex analysis and partial differential equations		Semester :		EVEN Semester		
			Instructor-in-Charge Name :		Dr. Naveenkumar S H		
			Instructor-in-Charge Employee ID :		PUNIV01689		
S. No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	20211IST0006	K RAHUL	SOE	90	87	Y	
2	20211CSG0029	MOHAMMED ABDUL UMAR	SOE	83	93	Y	
3	20211COM0036	RACHANA GOVINDA SHETTY	SOE	80	85	Y	
4	20211ECE0127	MONISH SUBBAIAH H S	SOE	97	93	Y	
5	20211CSD0124	JEEVITHA M	SOE	100	93	Y	
6	20211IST0007	D P RAKSHITHA	SOE	97	92	Y	
7	20211ECE0128	SUGNYANI	SOE	97	79	Y	
8	20211CSE0397	SWATHI P S	SOE	87	89	Y	
Name of Course Instructor :		Dr. Naveenkumar S H					
Employee ID of Course Instructor :		PUNIV01689					
				Signature of Instructor-in-Charge			
							





PRESIDENCY UNIVERSITY

(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

Name of the School: School of Engineering

Name of the Department: Mathematics

Area of Specialization: Mathematics (General)

Name of the Faculty Member: Mr. Biswajit Pandit

Title of the Value Added Course: Introduction to real analysis and series solution of ordinary differential equation.

Course Duration: [30 hours]

Course Code: MATV039

Introduction to the Course:

Real analysis is a fundamental subject in the branch of mathematics that helps student to build the concept and understand the logic. It comes from the concept of real numbers. It studies the behavior of real numbers, sequences, series of real numbers, and real functions. It also includes the properties of real numbers which contain limit, continuity, differentiability, integrability, and convergence of a sequence. It also helps engineering students to analyze the concept of the differential equation. Engineers need to solve the differential equation. Most of the differential equations are impossible to solve symbolically. This course helps to engineer students to learn some techniques for solving the differential equation.

Course Outcomes:

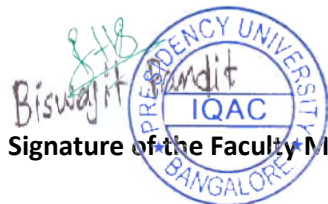
On successful completion of the course the students shall be able to

- 01: know about real numbers and its properties.
02. analyze the differential equation.
03. find the approximate solution of the differential equation.

Course Content:

Properties of real numbers. Sequences of real numbers, monotone sequences, Cauchy sequences, divergent sequences. Series of real numbers, Cauchy's criterion, tests for convergence. Limits of functions, continuous functions, uniform continuity, monotone and inverse functions. Differentiable functions, Rolle's theorem, mean value theorems and Taylor's theorem, power series. Riemann integration, fundamental theorem of integral calculus, improper integrals.

Power series methods for solutions of ordinary differential equations. Legendre equation and Legendre polynomials, Bessel equation and Bessel functions of first and second kind.



Signature of the Faculty Member

Approval by the HOD

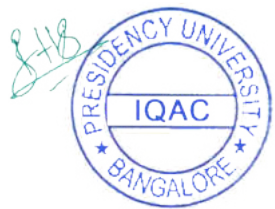


Presidency University, Bengaluru
 Department of Mathematics
 School of Engineering

VAC DETAILS
 Total number of hours:30
 Value added Course(VAC) Name and Code: Introduction to real analysis and series solution of ordinary differential equations and MATV039
 Name of the Instructor: Mr. Biswajit Pandit

NOTE:1. If 1 or more classes are engaged on same day. Then change timings by repeating date
 2. Enter date and timings according to the VAC class engaged

S.No	STUDENT ID NO	STUDENT NAME	02.04.22	02.04.22	03.04.22	03.04.22	09.04.22	09.04.22	09.04.22	10.04.22	10.04.22	16.04.22	16.04.22	17.04.22	17.04.22	23.04.22	23.04.22	24.04.22	24.04.22	30.04.22	30.04.22	01.05.22	01.05.22	07.05.22	07.05.22	08.05.22	08.05.22	14.05.22	14.05.22	21.05.22	21.05.22	22.05.22	22.05.22	Total classes conducted	Total classes attended	Percentage attended
			11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1		
1	20211CSE0407	ADHINDRA NAYAKA R B	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28	93
2	20211EEE0012	VIDYA SHREE G N	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90
3	20211CSD00125	GAURAV H	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	26	87
4	20211COM0038	PRAVEEN KUMAR G S	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	30	28	93
5	20211CSE0408	V HARSHINI	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28	93
6	20211CIV0018	ZOYA FALAK	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28	93
7	20211IST0008	DARSHAN R N	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90
8	20211EEE0013	R V GANESH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	29	97
9	20211ECE0241	SUHAS A B	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	30	27	90



Presidency University, Bengaluru

Value Added Course Marksheet

School of Engineering

Course Code :	MATV039		Academic Year :			2021-2022	
Course Name :	Introduction to real analysis and series solution of ordinary differential equations		Semester :			EVEN Semester	
			Instructor-in-Charge Name :			Mr. Biswajit Pandit	
			Instructor-in-Charge Employee ID :			PUNIV01697	
S. No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	20211CSE0407	ABHINDRA NAYAKA R B	SOE	93	79	Y	
2	20211EEE0012	VIDYA SHREE G N	SOE	90	86	Y	
3	20211CSD0125	GAURAV H	SOE	87	88	Y	
4	20211COM0038	PRAVEEN KUMAR G S	SOE	93	86	Y	
5	20211CSE0408	V HARSHINI	SOE	93	85	Y	
6	20211CIV0018	ZOYA FALAK	SOE	93	92	Y	
7	20211IST0008	DARSHAN R N	SOE	90	96	Y	
8	20211EEE0013	R V GANESH	SOE	97	82	Y	
9	20211ECE0141	SUHAS A B	SOE	90	96	Y	

Name of Course Instructor : Mr. Biswajit Pandit

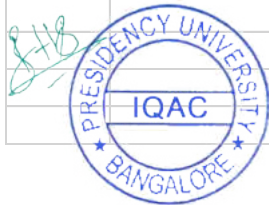
Employee ID of Course Instructor : PUNIV01697

Biswajit Pandit

Signature of Instructor-in-Charge

S. Mat

Signature of HOD





PRESIDENCY UNIVERSITY

(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

Name of the School: School of Engineering **Name of the Department:** Mathematics

Area of Specialization: Fuzzy logic and Fuzzy set theory

Name of the Faculty Member: Dr. Nazir Ahmad Ahengar

Title of the Value-Added Course: Fuzzy Entropy and its applications

Course Duration: [24 hours]

Course Code: MATV042

Introduction to the Course:

To deal with the concept of Entropy and its types, calculation of entropy based on high knowledge and low knowledge. Enable to study Naive approach and general formula for the calculation of Entropy, Fuzzy entropy, Fuzzy entropy based on Shannon function and distance

Fuzzy Entropy has several applications in medical science and engineering which is a base on fuzzy models, clarification of images particularly such as MR, ECG and ultrasound, multilevel image thresholding for image segmentation by maximizing Shannon entropy.

Course Outcomes:

On successful completion of the course the students shall be able to

- Calculation of entropy based on knowledge.
- Calculation of entropy based on Shannon function and distance
- Understanding the real world problem
- Application of fuzzy in medical science and engineering



Course Content:

Entropy and its basic examples, types of entropies, entropy in terms of probability theory, concept of high knowledge and low entropy, concept of low knowledge and high entropy, Calculation of entropy. Naive approach and general formula for the calculation of Entropy, Fuzzy entropy, Fuzzy entropy based on Shannon function, Fuzzy entropy based on distance, Generalized Fuzzy entropy based on Shannon function, Generalized Fuzzy entropy based on distance. Application of entropy in medical sciences, clarification of images particularly such as MR, ECG and ultrasound, multilevel image thresholding for image segmentation by maximizing Shannon entropy, Fuzzy entropy and engineering.



Signature of the Faculty Member



Approval by HOD

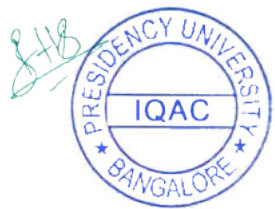


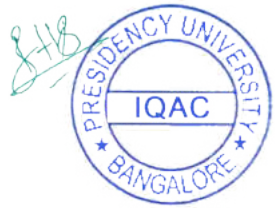
Presidency University, Bengaluru
 Department of Mathematics
 School of Engineering

VAC DETAILS
 Total number of hours: 30
 Value added Course(VAC) Name and Code: Fuzzy Entropy and its Applications and MATV042
 Name of the Instructor: Dr. Nazir Ahmed Ahengar

NOTE: 1. If 1 or more classes are engaged on same day. Then change timings by repeating date
 2. Enter date and timings according to the VAC class engaged

S.No.	STUDENT ID NO	STUDENT NAME	02.04.22	02.04.22	03.04.22	03.04.22	09.04.22	09.04.22	10.04.22	10.04.22	16.04.22	16.04.22	17.04.22	17.04.22	23.04.22	23.04.22	24.04.22	24.04.22	30.04.22	30.04.22	01.05.22	01.05.22	07.05.22	07.05.22	08.05.22	08.05.22	14.05.22	14.05.22	21.05.22	21.05.22	22.05.22	22.05.22	Total classes conducted	Total classes attended	Percentage attended
			11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1	11-12	12-1			
1	20211PET0021	MAYUR P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	29	97
2	20211CSE0114	CHAITHRA HANUMANTHAPPA BANGER	P	P	P	P	P	P	P	P	P	P	A	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90
3	20211CSE0425	PRAGNYAN PRASAD SATAPATHY	P	A	A	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	A	A	A	30	22	73
4	20211COM0043	MANOHAR S V	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	30	27	90
5	20211CAI0120	PRIYA L U	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	30	28	93
6	20211ISE0018	HEMALATHA K	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P	30	27	90
7	20211CSD0129	SRIVATSA K S	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	29	97
8	20211CSE0426	SRUSHTI K	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	30	27	90
9	20211CSE0427	VAMSHI YADAV	P	P	P	P	P	P	P	A	P	P	P	A	P	A	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	25	83
10	20211COM0044	B MOHAMMED OVEZ BASHA	P	P	P	P	A	A	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	26	87
11	20211COM0045	S SAMSKRUTH DIXIT	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	30	26	87
12	20211ISE0019	PRUTHVI BHAT	A	P	P	P	A	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	26	87
13	20211EEE0014	SINCHANA M	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	30	27	90
14	20211CSE0428	VIJAYAKUMAR BASAVARAJ KOLLUR	P	P	P	P	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	30	26	87
15	20211CDV0035	GIIRAN G K	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	30	27	90



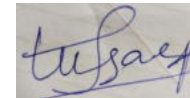


Presidency University, Bengaluru
Value Added Course Marksheet
School of Engineering

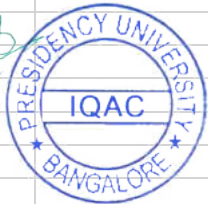
Course Code :	MATV042		Academic Year :			2021-2022	
Course Name :	Fuzzy Entropy and its Applications		Semester :			EVEN Semester	
			Instructor-in-Charge Name :			Dr. Nazir Ahmad Ahengar	
			Instructor-in-Charge Employee ID :			PUNIV01753	
S. No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	20211PET0021	MAYUR P	SOE	97	94	Y	
2	20211CCS0114	CHAITHRA HANUMANTHAPPA BANGER	SOE	90	90	Y	
3	20211CSE0425	PRAGNYAN PRASAD SATAPATHY	SOE	73	92	Y	
4	20211COM0043	MANOHAR S V	SOE	90	80	Y	
5	20211CAI0120	PRIYA L U	SOE	93	80	Y	
6	20211ISE0018	HEMALATHA K	SOE	90	97	Y	
7	20211CSD0129	SRIVATSA K S	SOE	97	92	Y	
8	20211CSE0426	SRUSHTI K	SOE	90	79	Y	
9	20211CSE0427	VAMSHI YADAV	SOE	83	93	Y	
10	20211COM0044	B MOHAMMED OVEZ BASHA	SOE	87	89	Y	
11	20211COM0045	S SAMSKRUTH DIXIT	SOE	87	83	Y	
12	20211ISE0019	PRUTHVI BHAT	SOE	87	81	Y	
13	20211EEE0014	SINCHANA M	SOE	90	84	Y	
14	20211CSE0428	VIJAYAKUMAR BASAVARAJ KOLUR	SOE	87	90	Y	
15	20211CDV0035	KIRAN G K	SOE	90	95	Y	

Name of Course Instructor : Dr. Nazir Ahmad Ahengar

Employee ID of Course Instructor : PUNIV01753



Signature of Instructor-in-Charge




Signature of HOD

REGISTRAR

