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. M. Rajeshwari**

Tile of the Value Added Course: Fuzzy Logic

Course Duration: [30 hours]

Course Code: MATV004

Introduction to the Course:

Mathematica is a powerful tool for solving a wide range of engineering applications with its expanded capabilities in fuzzy logic fundamentals. Properties, Relations and Mapping of Classical and Fuzzy set operations**.** The basic mathematical elements of the theory of fuzzy sets**.** The rules of fuzzy logic for fuzzy control. The level of teaching assumes that the student has some fluency in fuzzy logic and can employ the engineering approach to problem solving. The coverage includes symbolic manipulations, numerical calculations.

Course Outcomes:

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

1. Know how to perform mapping of fuzzy sets by a function and use the α-level sets in such instances.
2. Familiar with the extension principle, its compatibility with the α-level sets and the usefulness of the principle in performing fuzzy number arithmetic operations (Additions, multiplications, etc.).
3. Familiar to drawing a distinction between binary logic and fuzzy logic at the conceptual level and capable of representing a simple classical proposition using crisp set characteristic function and likewise representing a fuzzy proposition using fuzzy set membership function.

Course Content:

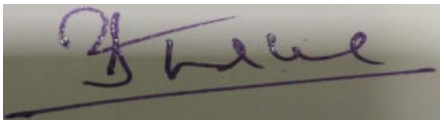
Classical sets: Operations on Classical Sets; Properties of Classical Sets; Mapping of classical sets to functions. Fuzzy set operations; Properties of Fuzzy Sets; Classical Relations and Fuzzy Relations: Cartesian product; Crisp Relations: Cardinality of Crisp Relations; Operations on Crisp Relations; Properties of Crisp Relations. Fuzzy Relations: Cardinality of fuzzy relations; Operations and Properties of fuzzy relations; fuzzy Cartesian product and composition; Fuzzy-to–Crisp Conversions: Lambda-Cuts for Fuzzy Sets; Lambda- Cuts for Fuzzy Relations. Defuzzification Methods. Fuzzy Classification: Classification by equivalence relations: Crisp relations; Fuzzy relations; Cluster analysis; Cluster validity.

PRESIDENCY UNIVERSITY IQAC BANGALORE

Signature of the Faculty Member

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE



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: Fuzzy Logic with Engineering Applications and MATV004

Name of the Instructor: Mrs. M. Rajeshwari

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	07.09.19	07.09.19	08.09.19	08.09.19	14.09.19	14.09.19	15.09.19	15.09.19	21.09.19	21.09.19	22.09.19	22.09.19	28.09.19	28.09.19	29.09.19	29.09.19	05.10.19	05.10.19	06.10.19	06.10.19	12.10.19	12.10.19	13.10.19	13.10.19	19.10.19	19.10.19	20.10.19	20.10.19	26.10.19	26.10.19	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	20191CSE0303	MADDI CHETAN VAMSI	P	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	P	30	29	97
2	20191CSE0326	MEGHA HK	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	A	P	P	P	P	A	P	A	30	24	80
3	20191CSE0343	MOHAMMED KHASIM	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	30	29	97
4	20191CSE0346	MOHAMMED SUFIYAAN SHAIK	P	P	P	P	A	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	27	90
5	20191CSE0533	SARIKONDA ARAVINDH RAJU	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	P	P	P	30	29	97
6	20191CSE0552	SHARMISHTHA NATH	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	A	P	30	26	87
7	20191CSE0643	THIRUMALA DEVARA PALLI SAIKUMAR	P	P	A	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	P	30	27	90
8	20191CSE0688	VIMALA KEERTHI 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	30	30	100
9	20191CSE0717	YUGAL SAHU	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28	93
10	20191CSE0720	KORAKUTI GNANESWAR	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90
11	20191CSE0775	DILIP BADUWAL N	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	P	P	30	28	93
12	20191CSE0782	DAUZI MD K ARIFULLA KHAN	P	P	P	P	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	30	28	93
13	20191ECE0015	ALVIN T JOSE	P	P	P	P	P	P	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
14	20191ECE0058	BRAHMADEVI AKHIL BHARADWAZ	A	P	A	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	A	P	P	P	P	A	30	23	77
15	20191ECE0195	MOHAMMED NABEEL SIDDIQUE	P	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	A	P	P	A	30	27	90
16	20191ECE0369	YEJENDLA SAI SATHWIK	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	30	29	97
17	20191EEE0030	PRATHVIRAJ	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P	P	30	27	90
18	20191ISE0166	SRI SAI HARSHA	P	P	A	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	26	87
19	20191ISE0178	TANYA S PRASANNA	P	A	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	P	A	P	30	26	87
20	20191ISE0219	LAKHINANA PAVANKUMAR	P	P	A	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	P	P	30	27	90

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Presidency University, Bengaluru

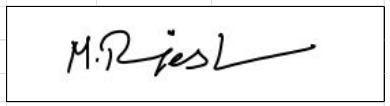
Value Added Course Marksheet

School of Engineering

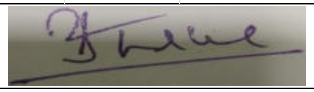
Course Code :	MATV004		Academic Year :			2019-2020	
Course Name :	Fuzzy Logic with Engineering Applications		Semester :			ODD Semester	
			Instructor-in-Charge Name :			Mrs. M Rajeshwari	
			Instructor-in-Charge Employee ID :			PUNIV00192	
S. No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	20191CSE0303	MADDI CHETAN VAMSI	SOE	97	80	Y	
2	20191CSE0326	MEGHA HK	SOE	80	81	Y	
3	20191CSE0343	MOHAMMED KHASIM	SOE	97	96	Y	
4	20191CSE0346	MOHAMMED SUFIYAAN SHAIK	SOE	90	88	Y	
5	20191CSE0533	SARIKONDA ARAVINDH RAJU	SOE	97	80	Y	
6	20191CSE0552	SHARMISHTHA NATH	SOE	87	81	Y	
7	20191CSE0643	THIRUMALA DEVARA PALLI SAIKUMAR	SOE	90	83	Y	
8	20191CSE0688	VIMALA KEERTHI K	SOE	100	86	Y	
9	20191CSE0717	YUGAL SAHU	SOE	93	80	Y	
10	20191CSE0720	KORAKUTI GNANESWAR	SOE	90	91	Y	
11	20191CSE0775	DILIP BADUWAL N	SOE	93	97	Y	
12	20191CSE0782	DAUZI MD K ARIFULLA KHAN	SOE	93	100	Y	
13	20191ECE0015	ALVIN T JOSE	SOE	100	86	Y	
14	20191ECE0058	BRAHMADEVI AKHIL BHARADWAZ	SOE	77	100	Y	
15	20191ECE0195	MOHAMMED NABEEL SIDDIQUE	SOE	90	82	Y	
16	20191ECE0369	YEJENDLA SAI SATHWIK	SOE	97	83	Y	
17	20191EEE0030	PRATHVIRAJ	SOE	90	97	Y	
18	20191ISE0166	SRI SAI HARSHA	SOE	87	82	Y	
19	20191ISE0178	TANYA S PRASANNA	SOE	87	97	Y	
20	20191ISE0219	LAKHINANA PAVANKUMAR	SOE	90	80	Y	

Name of Course Instructor : Mrs. M Rajeshwari

Employee ID of Course Instructor : PUNIV00192



Signature of Instructor-in-Charge



Signature of HOD

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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:** Differential Geometry

Name of the Faculty Member: Dr. Pradeep Kumar

Tile of the Value Added Course: Differential Geometry for Engineers

Course Duration: [30 hours] **Course Code: MATV007**

Introduction to the Course: This course aims to introduce different types of curves and surfaces in Euclidean space. Also this course helps students to map curves in Euclidean space and find dot product of tangent vectors in R3.

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

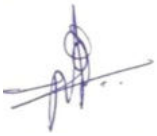
01: Identify different types of curves and surfaces.
02: View curves in Euclidean Space
03: Map curves in Euclidean Space

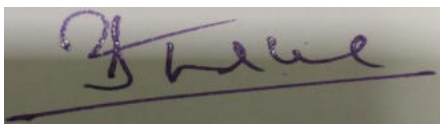
Course Content:

Module-1: Curves and Surfaces-An Introduction: Parametrized curve, Level curves, Curvature, Plane curves, Space curves. Smooth surfaces, Examples of Surface.

Module-2: Calculus on Euclidean Space: Euclidean space, Tangent Vectors, Vector field, Directional derivatives, Curves in R3.

Module-3: Differential Forms: 1-Forms, Differential forms, Mappings on Euclidean spaces, Derivative map, Dot product on R3, Dot product of tangent vectors, Frame at a point.





(Dr. Pradeep Kumar) **Approval by the HOD.**

PRESIDENCY UNIVERSITY IQAC BANGALORE

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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: Differential Geometry for Engineers and MATV007

Name of the Instructor: Dr. Pradeep Kumar

S.No.	STUDENT ID NO	STUDENT NAME	07.09.19	07.09.19	08.09.19	08.09.19	14.09.19	14.09.19	15.09.10	15.09.10	21.09.19	21.09.19	22.09.19	22.09.19	28.09.19	28.09.19	29.09.19	29.09.19	05.10.19	05.10.19	06.10.19	06.10.19	12.10.19	12.10.19	13.10.19	13.10.19	19.10.19	19.10.19	02.11.19	02.11.19	03.11.19	03.11.19	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	20191CSE0724	DUBBA SRINATH REDDY	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	P	A	P	P	30	27	90
2	20191CSE0739	SYED AFNANUDDIN	P	P	A	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	30	27	90
3	20191CSE0759	MAHIMA GHOSH	P	P	P	A	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	30	27	90
4	20191ECE0030	Aswin Anilkumar	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	P	P	30	28	93
5	20191ECE0172	LANKA VENKATA SAI CHARAN KUMAR	P	P	P	A	P	P	P	P	P	P	A	P	A	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P	A	P	30	24	80
6	20191ECE0247	PRAJWAL H 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	30	30	100
7	20191ECE0306	SRINIVAS M	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	A	30	27	90
8	20191ECE0311	SUMADHVA V NAIK	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	P	P	P	P	30	28	93
9	20191EEE0015	MANDADI KARTHIKEYAN REDDY	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	A	P	P	P	P	30	28	93
10	20191ISE0008	AKSHAY HARISH	P	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	A	P	P	P	30	27	90
11	20191ISE0053	GANASHREE G	P	P	P	P	A	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	30	27	90
12	20191ISE0055	GEETHA DC	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	A	A	P	P	30	27	90
13	20191ISE0152	SARAH J K	P	P	P	P	P	A	A	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	30	26	87
14	20191ISE0183	THRUPTHI V	P	P	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	A	P	30	26	87
15	20191IST0005	AKASH K S	P	P	P	P	A	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
16	20191IST0085	MANI CHANDRA TELUKUNTLA	A	P	P	P	P	P	P	P	A	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	30	25	83

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Presidency University, Bengaluru
Value Added Course Marksheet
School of Engineering

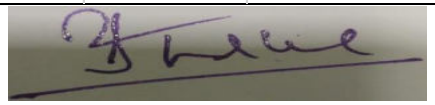
Course Code :	MATV007		Academic Year :			2019-2020	
Course Name :	Differential Geometry for Engineers		Semester :			ODD Semester	
			Instructor-in-Charge Name :			Dr. Pradeep Kumar	
			Instructor-in-Charge Employee ID			PUNIV01158	

S. No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	20191CSE0724	DUBBA SRINATH REDDY	SOE	90	89	Y	
2	20191CSE0739	SYED AFNANUDDIN	SOE	90	83	Y	
3	20191CSE0759	MAHIMA GHOSH	SOE	90	80	Y	
4	20191ECE0030	Aswin Anilkumar	SOE	93	85	Y	
5	20191ECE0172	LANKA VENKATA SAI CHARAN KUMAR	SOE	80	87	Y	
6	20191ECE0247	PRAJWAL H R	SOE	100	88	Y	
7	20191ECE0306	SRINIVAS M	SOE	90	78	Y	
8	20191ECE0311	SUMADHVA V NAIK	SOE	93	98	Y	
9	20191EEE0015	MANDADI KARTHIKEYAN REDDY	SOE	93	87	Y	
10	20191ISE0008	AKSHAY HARISH	SOE	90	95	Y	
11	20191ISE0053	GANASHREE G	SOE	90	89	Y	
12	20191ISE0055	GEETHA DC	SOE	90	99	Y	
13	20191ISE0152	SARAH J K	SOE	87	93	Y	
14	20191ISE0183	THRUPTHI V	SOE	87	86	Y	
15	20191IST0005	AKASH K S	SOE	90	90	Y	
16	20191IST0085	MANI CHANDRA TELUKUNTLA	SOE	83	93	Y	

Name of Course Instructor : Dr. Pradeep Kumar

Employee ID of Course Instructor : PUNIV01158

Signature of Instructor-in-Charge



Signature of HOD

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Name of the School: School of Basic Science **Name of the Department:** Mathematics

Area of Specialization: Graph Theory **Name of the Faculty Member:** Dr. S. Mohan

Title of the Value Added Course: Elementary Linear Algebra **Course Duration: [30 hours]**

Course Code: MATV010

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]

Linear Algebra is a continuous form of mathematics and is applied throughout science and engineering because it allows you to model natural phenomena and to compute them efficiently. Because it is a form of continuous and not discrete mathematics, a lot of computer scientists. Mechanical engineering and electronics. Network Analysis (Traffic Flow), Electrical Circuits, Balancing Chemical Equations.

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

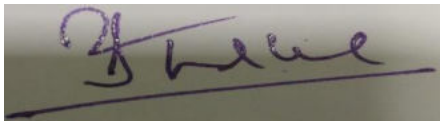
01 Engineering Knowledge

02 Problem solving

03 Applications of linear algebra in Engineering.

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

Systems of Linear Equations and Matrices, Gaussian Elimination, Matrices and Matrix Operations, Inverses, Determinants by Cofactor Expansion, Evaluating Determinants by Row Reduction, Algebraic Properties of Matrices General Vector Spaces, Real Vector Spaces, Subspaces, Linear Independence, Coordinates and Basis Eigenvalues and Eigenvectors, Inner Products spaces, Angle and Orthogonality in Inner Product Spaces.



Signature of the Faculty Member **Approval by the HOD**

PRESIDENCY UNIVERSITY IQAC BANGALORE

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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: Elementary Linear Algebra and MATV010

Name of the Instructor: Dr. S. Mohan

S.No.	STUDENT ID NO	STUDENT NAME	08.09.19	08.09.19	14.09.19	14.09.19	15.09.10	15.09.10	21.09.19	21.09.19	22.09.19	22.09.19	28.09.19	28.09.19	29.09.19	29.09.19	05.10.19	05.10.19	06.10.19	06.10.19	12.10.19	12.10.19	13.10.19	13.10.19	19.10.19	19.10.19	20.10.19	20.10.19	26.10.19	26.10.19	02.11.19	02.11.19	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	20191PET0055	TANIYA K G	P	P	P	P	P	P	P	P	P	A	A	P	P	P	P	A	P	P	P	A	P	A	P	P	P	P	P	P	P	P	30	25	83
2	20191CCE0061	SMITHA REDDY S	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	30	29	97
3	20191COM0098	KEERTHANA N D	P	P	A	P	P	A	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
4	20191COM0166	PYDIMARRI TANUJA SRI	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	30	28	93
5	20191CSE0062	BANDARU SURYA PRABHAS	P	P	P	A	P	P	A	P	P	P	P	A	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	30	25	83
6	20191CSE0086	CHAITHRA L M	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
7	20191CSE0121	DEEPAK S MANNARATH	P	A	P	P	A	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	30	26	87
8	20191CSE0138	DODDY JAYA SIMHA REDDY	A	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	30	27	90
9	20191CSE0254	KEERTHIPATI GNANA PRASUNA	P	P	P	A	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90
10	20191CSE0278	KUNCHAPU SUJITHA HASINI	P	P	A	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	A	A	30	25	83
11	20191CSE0312	MALIGI REDDY AKKHIL REDDY	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	P	A	P	30	27	90
12	20191CSE0322	MANU K N	P	P	A	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
13	20191CSE0539	SEETHAVARI SATHVIKA	P	P	P	P	P	P	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
14	20191CSE0660	VAISHNAVI K	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	P	P	30	28	93
15	20191CSE0752	CHITTEPU SIRI REDDY	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	P	30	28	93

PRESIDENCY UNIVERSITY IQAC BANGALORE

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

Presidency University, Bengaluru
Value Added Course Marksheet
School of Engineering

Course Code :	MATV010		Academic Year :			2019-2020	
Course Name :	Elementary Linear Algebra		Semester :			ODD Semester	
			Instructor-in-Charge Name :			Dr. S. Mohan	
			Instructor-in-Charge Employee ID			PUNIV01224	

S. No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	20191PET0055	TANIYA K G	SOE	83	85	Y	
2	20191CCE0061	SMITHA REDDY S	SOE	97	82	Y	
3	20191COM0098	KEERTHANA N D	SOE	90	80	Y	
4	20191COM0166	PYDIMARRI TANUJA SRI	SOE	93	91	Y	
5	20191CSE0062	BANDARU SURYA PRABHAS	SOE	83	95	Y	
6	20191CSE0086	CHAITHRA L M	SOE	90	84	Y	
7	20191CSE0121	DEEPAK S MANNARATH	SOE	87	82	Y	
8	20191CSE0138	DODDY JAYA SIMHA REDDY	SOE	90	96	Y	
9	20191CSE0254	KEERTHIPATI GNANA PRASUNA	SOE	90	87	Y	
10	20191CSE0278	KUNCHAPU SUJITHA HASINI	SOE	83	81	Y	
11	20191CSE0312	MALIGI REDDY AKKHIL REDDY	SOE	90	92	Y	
12	20191CSE0322	MANU K N	SOE	93	90	Y	
13	20191CSE0539	SEETHAVARI SATHVIKA	SOE	100	86	Y	
14	20191CSE0660	VAISHNAVI K	SOE	93	96	Y	
15	20191CSE0752	CHITTEPU SIRI REDDY	SOE	93	80	Y	

Name of Course Instructor : Dr. S. Mohan

Employee ID of Course Instructor : PUNIV01224

Signature of Instructor-in-Charge

PRESIDENCY UNIVERSITY IQAC BANGALORE

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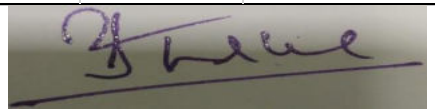
PRESIDENCY UNIVERSITY Registrar BANGALORE



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. Nagendramma V**

Tile of the Value Added Course: Basics of MATLAB

Course Duration: [30 hours]

Course Code: MATV021

Introduction to the Course:

MATLAB or (Matrix Laboratory) is a high performance fourth generation programming language which is used for technical computing. It provides multi paradigm numerical computing environment and was developed by Math Works. It is used for integrating computation, visualization, and programming so that the programming environment becomes easy to use. The applications of MATLAB are immense. It is a powerful linear algebra tool with a very good collection of toolboxes therefore, it finds applications in research and teaching on domains of robotics and automation.

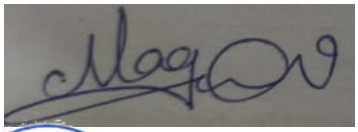
Course Outcomes:

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

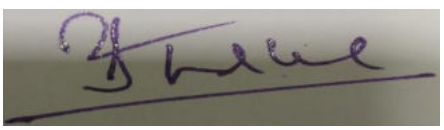
01:A ble to use Matlab for interactive computations.
02: Familiar with memory and file management in Matlab.
03: Able to generate plots and export this for use in reports and presentations.
04: Able to program scripts and functions using the Matlab development environment.

Course Content:

Basics of Matlab and MATLAB Compiler, The Matlab user interface, Working with Matlab data types, Creating matrices and arrays, Operators and control statements, Using scripts and functions, Data import and export, Using the graphical features
2. Programming with simple examples
3. Discussion of Toolboxes with Applications like Signal Processing, Image Acquisition Toolbox, Image Processing, Neural Network, Fuzzy Logic Toolbox



Signature of the Faculty Member



Approval by the HOD

PRESIDENCY UNIVERSITY IQAC BANGALORE

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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 MATLAB and MATV021

Name of the Instructor: Dr. Nagendramma V

S.No.	STUDENT ID NO	STUDENT NAME	07.09.19	07.09.19	08.09.19	08.09.19	15.09.10	15.09.10	21.09.19	21.09.19	22.09.19	22.09.19	28.09.19	28.09.19	29.09.19	29.09.19	05.10.19	05.10.19	06.10.19	06.10.19	12.10.19	12.10.19	13.10.19	13.10.19	19.10.19	19.10.19	20.10.19	20.10.19	26.10.19	26.10.19	02.11.19	02.11.19	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	20191ISE0199	SNEHA K	A	A	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	30	25	83
2	20191IST0006	AMRITA BHATTACHARJEE	P	P	P	P	P	P	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	20191IST0031	CHANDU PRIYA S 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
4	20191IST0186	PRIYA R	P	P	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	A	P	30	27	90
5	20191IST0188	D PRADEEP	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	30	26	87
6	20191MEC0015	ALISTER RYAN IGNATIUS	P	P	P	P	P	P	A	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
7	20191MEC0107	SHREYAS GANGATKAR	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	30	28	93
8	20191MEC0121	VYSHAG M NAIR	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	P	30	28	93
9	20191PET0014	GANESH KUMAR POTHAN	P	P	A	P	P	P	A	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
10	20191PET0032	MOHAMMED MUZAMMIL PATVEGAR	P	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	30	26	87
11	20191CCE0077	V S PRAMOD REDDY	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
12	20191CIV0050	PRASHAN CHOUHAN	P	P	P	P	P	P	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
13	20191COM0001	ABDUL BASITH T C	P	P	P	P	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	30	27	90
14	20191COM0003	ADITYA SAI NATEKAR	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	A	P	A	P	30	27	90
15	20191COM0059	G MEGHANA	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	A	P	P	P	P	30	27	90
16	20191COM0148	PAKKIRAMMAGARI SURESH	A	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	30	27	90
17	20191COM0160	POTHUGUNTA SHARMISTA CHOWDARY	A	P	A	P	A	P	P	A	P	A	P	P	P	P	P	P	A	P	P	A	P	A	P	A	P	P	P	P	P	P	30	22	73
18	20191COM0165	PUDOTA PRANEETH	P	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	P	P	30	28	93
19	20191COM0244	GOUTHAM VARMA I	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	A	A	A	P	P	A	P	A	P	30	23	77

PRESIDENCY UNIVERSITY IQAC BANGALORE

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PRESIDENCY UNIVERSITY Registrar BANGALORE

Presidency University, Bengaluru

Value Added Course Marksheet

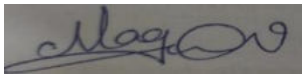
School of Engineering

Course Code :	MATV021		Academic Year :			2019-2020	
Course Name :	Basics of MATLAB		Semester :			ODD Semester	
			Instructor-in-Charge Name :			Dr. Nagendramma V	
			Instructor-in-Charge Employee ID			PUNIV00979	

S. No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	20191ISE0199	SNEHA K	SOE	83	84	Y	
2	20191IST0006	AMRITA BHATTACHARJEE	SOE	100	95	Y	
3	20191IST0031	CHANDU PRIYA S P	SOE	97	82	Y	
4	20191IST0186	PRIYA R	SOE	90	92	Y	
5	20191IST0188	D PRADEEP	SOE	87	87	Y	
6	20191MEC0015	ALISTER RYAN IGNATIUS	SOE	93	95	Y	
7	20191MEC0107	SHREYAS GANGATKAR	SOE	93	87	Y	
8	20191MEC0121	VYSHAG M NAIR	SOE	93	86	Y	
9	20191PET0014	GANESH KUMAR POTHAN	SOE	90	98	Y	
10	20191PET0032	MOHAMMED MUZAMMIL PATVEGAR	SOE	87	84	Y	
11	20191CCE0077	V S PRAMOD REDDY	SOE	97	99	Y	
12	20191CIV0050	PRASHAN CHOUHAN	SOE	100	94	Y	
13	20191COM0001	ABDUL BASITH T C	SOE	90	90	Y	
14	20191COM0003	ADITYA SAI NATEKAR	SOE	90	88	Y	
15	20191COM0059	G MEGHANA	SOE	90	100	Y	
16	20191COM0148	PAKKIRAMMAGARI SURESH	SOE	90	82	Y	
17	20191COM0160	POTHUGUNTA SHARMISTA CHOWDARY	SOE	73	89	Y	
18	20191COM0165	PUDOTA PRANEETH	SOE	93	95	Y	
19	20191COM0244	GOUTHAM VARMA I	SOE	77	81	Y	

Name of Course Instructor : Dr. Nagendramma V

Employee ID of Course Instructor : PUNIV00979



Signature of Instructor-in-Charge

Signature of HOD

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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: Pure Mathematics (Algebra)

Name of the Faculty Member: Dr. Rajni Kanwar

Tile of the Value Added Course: Basic of Algebra and its Applications

Course Duration: [30 hours]

Course Code: MATV026

Introduction to the Course:

To understand Set theory, relations and functions and to Read, understand and construct mathematical arguments. Learn different types of functions and its classifications with examples.

To understand Algebraic Systems (I.e. basic concepts and properties of algebraic structures such as groups, semi groups, monoids, abelian group, normal subgroup) and their applications in coding theory - Group codes.

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

01. Verify the algebraic statements analytically and graphically, analyze the properties of the given relations and represent the relation using matrix and graph. Be able to analyze whether a relation is equivalence or poset or not.

02. Evaluates the composition and inverse of the given function and verifies the results. Gives practical examples for one to one, onto and bijective functions. Defines initial, hashing, recursive, primitive recursive and permutation functions.

03. Be able to analyze between semi group, monoid, group and abelian group with suitable examples. Find the applications of group theory in computer arithmetic, theory of sequential machines and formal languages. Design the fast adders and error correcting codes using group codes.

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

Unit I Set Theory [8 Hrs.]

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Basic concepts – Notations – Subset – Algebra of sets – The power set – Ordered pairs and Cartesian product – Relations on sets – Types of relations and their properties – Relational matrix and the graph of a relation – Partitions – Equivalence relations – Partial ordering – Poset – Hasse diagram.

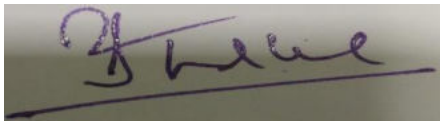
UNIT II FUNCTIONS [8 Hrs.]

Definitions of functions – Classification of functions – Type of functions – Examples – Composition of functions – Inverse functions – Binary and n – ary operations – Characteristic function of a set – Hashing functions – Recursive functions – Permutation functions.

UNIT III ALGEBRAIC SYSTEMS [14 Hrs.]

12 Groups, Cyclic Groups, Subgroups, Cosets, Lagrange's theorem, Normal subgroups – Codes and group codes – Basic notions of error correlation – Error recovery in group codes.

Signature of the Faculty Member



Approval by the HOD

PRESIDENCY UNIVERSITY IQAC BANGALORE

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

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 Algebra and its Applications and MATV026

Name of the Instructor: Dr. Rajni Kanwar

S.No.	STUDENT ID NO	STUDENT NAME	07.09.19	07.09.19	08.09.19	08.09.19	14.09.19	14.09.19	15.09.10	15.09.10	21.09.19	21.09.19	22.09.19	22.09.19	28.09.19	28.09.19	29.09.19	29.09.19	05.10.19	05.10.19	06.10.19	06.10.19	12.10.19	12.10.19	13.10.19	13.10.19	19.10.19	19.10.19	20.10.19	20.10.19	02.11.19	02.11.19	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	20191CSE0626	TASKEEN FATHIMA	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	A	P	P	30	26	87
2	20191CSE0806	SARIKA N	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	30	27	90
3	20191ECE0003	AANCHAL	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	P	P	30	29	97
4	20191ECE0074	CHETAN GUPTA K	P	P	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	A	P	P	30	26	87
5	20191ECE0080	CHITTIBOENA UMESH CHANDRA	P	A	P	P	P	P	P	P	A	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	26	87
6	20191ECE0095	EMANI LIKHITA	P	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	A	A	30	26	87
7	20191ECE0111	GAUTHAM S 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	30	30	100
8	20191ECE0130	HARSHITHA K C	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	A	P	P	P	30	26	87
9	20191ECE0190	MARRIBOINA GANGADHAR	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	30	26	87
10	20191ECE0217	NIRUPAMA C	A	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	30	26	87
11	20191ECE0238	PHILIP STEVE CHEMBIAN 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	P	A	P	P	P	P	30	28	93
12	20191ECE0293	SHRAVANI K B	P	A	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	P	P	P	30	27	90

PRESIDENCY UNIVERSITY IQAC BANGALORE

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

Presidency University, Bengaluru
Value Added Course Marksheet
School of Engineering

Course Code :	MATV026		Academic Year :			2019-2020	
Course Name :	Basics of Algebra and its Applications		Semester :			ODD Semester	
			Instructor-in-Charge Name :			Dr. Rajni Kanwar	
			Instructor-in-Charge Employee ID			PUNIV01266	

S. No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	20191CSE0626	TASKEEN FATHIMA	SOE	87	91	Y	
2	20191CSE0806	SARIKA N	SOE	90	91	Y	
3	20191ECE0003	AANCHAL	SOE	97	91	Y	
4	20191ECE0074	CHETAN GUPTA K	SOE	87	84	Y	
5	20191ECE0080	CHITTIBOENA UMESH CHANDRA	SOE	87	98	Y	
6	20191ECE0095	EMANI LIKHITA	SOE	87	90	Y	
7	20191ECE0111	GAUTHAM S R	SOE	100	92	Y	
8	20191ECE0130	HARSHITHA K C	SOE	87	86	Y	
9	20191ECE0190	MARRIBOINA GANGADHAR	SOE	87	99	Y	
10	20191ECE0217	NIRUPAMA C	SOE	87	100	Y	
11	20191ECE0238	PHILIP STEVE CHEMBIAN S	SOE	93	90	Y	
12	20191ECE0293	SHRAVANI K B	SOE	90	100	Y	

Name of Course Instructor : Dr. Rajni Kanwar

Employee ID of Course Instructor : PUNIV01266

Signature of Instructor-in-Charge

PRESIDENCY UNIVERSITY IQAC BANGALORE

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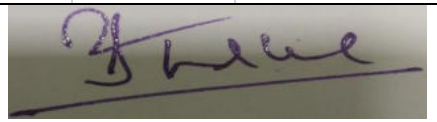
PRESIDENCY UNIVERSITY Registrar BANGALORE



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. S R Sudheendra**

Tile of the Value Added Course: Statistical Analysis using SPSS

Course Duration: [30 hours]

Course Code: MATV002

Introduction to the Course:

SPSS is short for Statistical Package for the Social Sciences, and it's used by various kinds of researchers for complex statistical data analysis. The SPSS software package was created for the management and statistical analysis of social science data. SPSS is used by market researchers, health researchers, survey companies, government entities, education researchers, marketing organizations, data miners, and many more for processing and analyzing survey data, such as you collect with an online survey platform like Alchemer. SPSS Help is useful for the data analysts to utilize diverse data sets and conduct different statistical analysis such as ANOVA, T test or MANOVA as well as regression analysis for analyzing diverse data set and inter-relating the relationship between the dependent and independent variables.

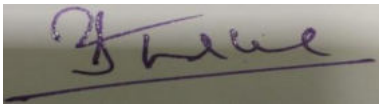
Course Outcomes:

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

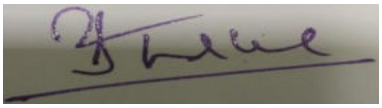
01: to analyze a number of statistical procedures in SPSS.
02: to interpret the output of a number of different statistical tests
03: to carry out inferential statistical analysis using SPSS

Course Content:

Introduction of SPSS, Structuring your data for use in SPSS, Creating descriptive statistics and graph, Entering and saving Data, Saving Your Work, Looking at the Data, Exploring the data, Graphical representation of data using SPSS, Central Tendency using SPSS, Measure of dispersion using SPSS.



Signature of the Faculty Member



Approval by the HOD

PRESIDENCY UNIVERSITY IQAC BANGALORE

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

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: Statistical Analysis using SPSS and MATV002

Name of the Instructor: Dr. S R Sudheendra

S.No.	STUDENT ID NO	STUDENT NAME	07.03.20	07.03.20	08.03.20	08.03.20	14.03.20	14.03.20	15.03.20	15.03.20	21.03.20	21.03.20	22.03.20	22.03.20	28.03.20	28.03.20	29.03.20	29.03.20	04.04.20	04.04.20	05.04.20	05.04.20	12.04.20	12.04.20	18.04.20	18.04.20	19.04.20	19.04.20	25.04.20	25.04.20	26.04.20	26.04.20	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	20191CSE0597	SUMAN M	P	P	P	P	P	P	P	A	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	A	P	30	25	83
2	20191CSE0614	SYED AHMED ALI	P	P	P	P	P	P	A	A	P	P	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	30	25	83
3	20191CSE0619	SYEDA HABEEBUNNISA	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	P	P	30	28	93
4	20191CSE0638	THARUN M KUMARAN	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	A	P	P	30	27	90
5	20191CSE0699	Y RASHMI	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	A	P	P	P	P	P	P	A	P	30	26	87
6	20191CSE0776	LEONE JACOB SUNIL	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	30	27	90
7	20191CSE0802	VIKAS KUMAR PANDIT 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	A	P	P	P	P	30	28	93
8	20191ECE0078	CHINTHALA PALLI KRANTHI KUMAR	P	P	P	P	P	A	P	P	P	P	A	P	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	30	26	87
9	20191ECE0091	DHANYA 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	A	P	P	P	P	P	30	29	97
10	20191ECE0109	GANIGUNTHALA MANOJ	A	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	A	P	A	A	P	P	P	P	P	A	P	P	A	30	23	77
11	20191ECE0129	HARSHITH S N	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	30	28	93
12	20191ECE0151	KANTAGANI ARUN KUMAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	30	28	93
13	20191ECE0166	KULLURU DURGA 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	30	30	100
14	20191ECE0168	KUMMARI BHARATH KUMAR	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	P	P	30	29	97

REGISTRAR

Presidency University, Bengaluru

Value Added Course Marksheet

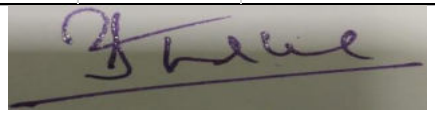
School of Engineering

Course Code :	MATV002		Academic Year :			2019-2020	
Course Name :	Statistical Analysis using SPSS		Semester :			EVEN Semester	
			Instructor-in-Charge Name :			Dr. S R Sudheendra	
			Instructor-in-Charge Employee ID			PUNIV00449	

S. No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	20191CSE0597	SUMAN M	SOE	83	88	Y	
2	20191CSE0614	SYED AHMED ALI	SOE	83	98	Y	
3	20191CSE0619	SYEDA HABEEBUNNISA	SOE	93	86	Y	
4	20191CSE0638	THARUN M KUMARAN	SOE	90	85	Y	
5	20191CSE0699	Y RASHMI	SOE	87	88	Y	
6	20191CSE0776	LEONE JACOB SUNIL	SOE	90	83	Y	
7	20191CSE0802	VIKAS KUMAR PANDIT S	SOE	93	80	Y	
8	20191ECE0078	CHINTHALA PALLI KRANTHI KUMAR	SOE	87	85	Y	
9	20191ECE0091	DHANYA B P	SOE	97	84	Y	
10	20191ECE0109	GANIGUNTHALA MANOJ	SOE	77	98	Y	
11	20191ECE0129	HARSHITH S N	SOE	93	82	Y	
12	20191ECE0151	KANTAGANI ARUN KUMAR	SOE	93	100	Y	
13	20191ECE0166	KULLURU DURGA RAHUL	SOE	100	91	Y	
14	20191ECE0168	KUMMARI BHARATH KUMAR	SOE	97	99	Y	

Name of Course Instructor : Dr. S R Sudheendra

Employee ID of Course Instructor : PUNIV00449



Signature of Instructor-in-Charge

PRESIDENCY UNIVERSITY IQAC BANGALORE

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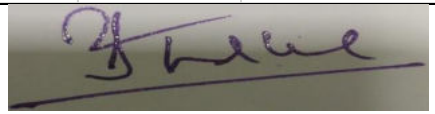


Signature of HOD

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. Shilpa N**

Tile of the Value Added Course: Complex Analysis with Applications in Science and Engineering

Course Duration: [30 hours]

Course Code: MATV018

Introduction to the Course:

Complex analysis is a basic tool with a great many practical applications to the solution of physical problems. It revolves around complex analytic functions—functions that have a complex derivative. Unlike calculus using real variables, the mere existence of a complex derivative has strong implications for the properties of the function. Applications reviewed in this class include harmonic functions, two dimensional fluid flow, easy methods for computing (seemingly) hard integrals, Laplace transforms, and Fourier transforms with applications to engineering and physics.

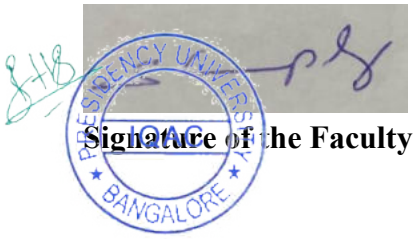
Course Outcomes:

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

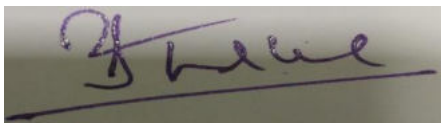
01: Evaluate complex contour integrals directly and by the fundamental theorem, apply the Cauchy integral theorem in its various versions, and the Cauchy integral formula
02: Represent functions as Taylor, power and Laurent series, classify singularities and poles, find residues and evaluate complex integrals using the residue theorem
03: Apply to deal with physical problems

Course Content:

Series, residues, and the evaluation of integrals; multi-valued functions; conformal mapping; dispersion relations; and analytic continuation.



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: Complex Analysis with Applications in Science and Engineering and MATV018

Name of the Instructor: Dr. Shilpa N

S.No.	STUDENT ID NO	STUDENT NAME	07.03.20	07.03.20	08.03.20	08.03.20	14.03.20	14.03.20	21.03.20	21.03.20	22.03.20	22.03.20	28.03.20	28.03.20	29.03.20	29.03.20	04.04.20	04.04.20	05.04.20	05.04.20	12.04.20	12.04.20	18.04.20	18.04.20	19.04.20	19.04.20	25.04.20	25.04.20	26.04.20	26.04.20	02.05.20	02.05.20	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	20191CCE0063	SOHAN NARAYAN MOGER	P	P	P	P	P	P	P	P	A	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90
2	20191CIV9003	ABHISHEK A	P	P	P	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	30	28	93
3	20191COM0004	AKULA ANUDEEP	P	P	P	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	A	P	30	27	90
4	20191COM0129	MOHAMMED AYAN	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	30	27	90
5	20191COM0145	NUTAKKI SIVA BRAHMACHARI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	A	A	P	P	A	P	P	P	30	25	83
6	20191COM0151	PATHI JAGADESH	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	A	P	P	P	P	30	27	90
7	20191COM0189	SIDDAREDDYGARI DILLI	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	30	29	97
8	20191CSE0034	AMIT MANDAL	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	A	P	30	28	93

PRESIDENCY UNIVERSITY ★ IQAC ★ BANGALORE

REGISTRAR

PRESIDENCY UNIVERSITY ★ Registrar ★ BANGALORE

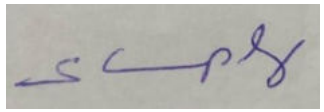
Presidency University, Bengaluru
Value Added Course Marksheet
School of Engineering

Course Code :	MATV018		Academic Year :			2019-2020	
Course Name :	Complex Analysis with Applications in Science and Engineering		Semester :			EVEN Semester	
			Instructor-in-Charge Name :			Dr. Shilpa N	
			Instructor-in-Charge Employee ID			PUNIV00092	

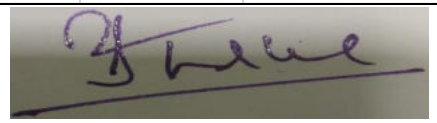
S. No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	20191CCE0063	SOHAN NARAYAN MOGER	SOE	90	81	Y	
2	20191CIV9003	ABHISHEK A	SOE	93	97	Y	
3	20191COM0004	AKULA ANUDEEP	SOE	90	97	Y	
4	20191COM0129	MOHAMMED AYAN	SOE	90	91	Y	
5	20191COM0145	NUTAKKI SIVA BRAHMACHARI	SOE	83	85	Y	
6	20191COM0151	PATHI JAGADESH	SOE	90	82	Y	
7	20191COM0189	SIDDAREDDYGARI DILLI	SOE	97	86	Y	
8	20191CSE0034	AMIT MANDAL	SOE	93	83	Y	

Name of Course Instructor : Dr. Shilpa N

Employee ID of Course Instructor : PUNIV00092



Signature of Instructor-in-Charge



Signature of HOD

PRESIDENCY UNIVERSITY IQAC BANGALORE

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PRESIDENCY UNIVERSITY Registrar BANGALORE

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: Graph Theory **Name of the Faculty Member: Dr Rajeshwari M**

Tile of the Value Added Course: Graph Theory in Network Theory

Course Duration: [30 hours]

Course Code: MATV022

Introduction to the Course: An important step in the procedure for solving any circuit problem consists first in selecting a number of independent branch currents as (known as loop currents or mesh currents) variables, and then to express all branch currents as functions of the chosen set of branch currents. Alternately a number of independent node pair voltages may be selected as variables and then express all existing node pair voltages in terms of these selected variables. For simple networks involving a few elements, there is no difficulty in selecting the independent branch currents or the independent node-pair voltages. The set of linearly independent equations can be written by inspection. However for large scale networks particularly modern electronic circuits such as integrated circuits and microcircuits with a larger number of interconnected branches, it is almost impossible to write a set of linearly independent equations by inspection or by mere intuition. The problem becomes quite difficult and complex. A systematic and step by step method is therefore required to deal with such networks. Network topology (graph theory approach) is used for this purpose. By this method, a set of linearly independent loop or node equations can be written in a form that is suitable for a computer solution.

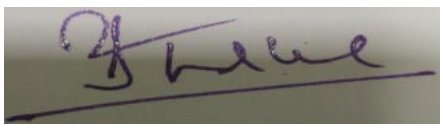
Course Outcomes: On successful completion of the course the students shall be able to:

(1) Use network techniques, like node analysis and loop analysis, to write equations for large linear circuits.

(2) Apply the concept of linearity and the associated technique of superposition to circuits and networks.

(3) Analyze circuits using graph theory.

Course Content: Graph – Tree, Basic Tie-set and Basic cut set matrices for planar networks – Loop and Nodal methods of analysis of Networks with independent and dependent voltage and current sources - Duality & Dual networks.



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: Graph Theory in Network Theory and MATV022

Name of the Instructor: Dr. Rajeshwari M

S.No.	STUDENT ID NO	STUDENT NAME	07.03.20	07.03.20	08.03.20	08.03.20	14.03.20	14.03.20	15.03.20	15.03.20	21.03.20	21.03.20	22.03.20	22.03.20	28.03.20	28.03.20	29.03.20	29.03.20	04.04.20	04.04.20	05.04.20	05.04.20	12.04.20	12.04.20	18.04.20	18.04.20	19.04.20	19.04.20	25.04.20	25.04.20	26.04.20	26.04.20	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	20191CSE0366	NALADI BONI DARAHAS NALADI	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	P	30	28	93
2	20191CSE0432	POLU TEJA SAI	P	P	P	P	P	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	30	27	90
3	20191CSE0594	SUHAS G	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	P	30	29	97
4	20191CSE0629	TEJA CHOWDARY BHOGAVALLI	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	A	30	28	93
5	20191CSE0658	VAIBHAV VADDE	P	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90
6	20191CSE0732	AKSHAY N	P	P	A	P	A	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	A	P	A	30	23	77
7	20191ECE0098	FARHAN SHARIFF 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	30	29	97
8	20191ECE0162	KOMARAGIRI VIJAY THARUN	P	P	P	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	30	28	93
9	20191ECE0197	MOHAMMED SAMEER	P	P	A	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	30	27	90
10	20191ECE0258	RAPARTHI SRIKAR	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	P	P	P	P	A	30	27	90
11	20191ISE0099	MANOJ N	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90
12	20191ISE0159	SHIVA SHARANA REDDY G	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	30	29	97
13	20191IST0029	CHANDAN KUMAR 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	A	P	P	30	29	97
14	20191IST9004	DEEKSHITH REDDY G	P	P	P	P	P	P	A	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
15	20191MEC0010	AKASH BIRADAR	P	P	P	P	P	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	30	28	93
16	20191MEC0016	ALLEN K ABRAHAM	P	P	P	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	A	P	P	30	26	87
17	20191MEC0024	BHANUSH B SHETTY	P	P	P	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	30	28	93

PRESIDENCY UNIVERSITY IQAC BANGALORE

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

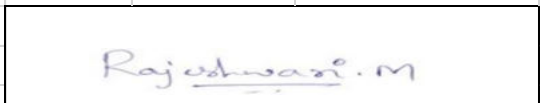
Presidency University, Bengaluru
Value Added Course Marksheet
School of Engineering

Course Code :	MATV022		Academic Year :			2019-2020	
Course Name :	Graph Theory in Network Theory		Semester :			EVEN Semester	
			Instructor-in-Charge Name :			Dr. Rajeshwari M	
			Instructor-in-Charge Employee ID			PUNIV00471	

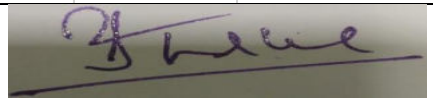
S. No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks	Eligible for Certificate (Y/N)	Remark
1	20191CSE0366	NALADI BONI DARAHAS NALADI	SOE	93	81	Y	
2	20191CSE0432	POLU TEJA SAI	SOE	90	91	Y	
3	20191CSE0594	SUHAS G	SOE	97	94	Y	
4	20191CSE0629	TEJA CHOWDARY BHOGAVALLI	SOE	93	98	Y	
5	20191CSE0658	VAIBHAV VADDE	SOE	90	96	Y	
6	20191CSE0732	AKSHAY N	SOE	77	92	Y	
7	20191ECE0098	FARHAN SHARIFF A	SOE	97	79	Y	
8	20191ECE0162	KOMARAGIRI VIJAY THARUN	SOE	93	95	Y	
9	20191ECE0197	MOHAMMED SAMEER	SOE	90	98	Y	
10	20191ECE0258	RAPARTHI SRIKAR	SOE	90	81	Y	
11	20191ISE0099	MANOJ N	SOE	90	95	Y	
12	20191ISE0159	SHIVA SHARANA REDDY G	SOE	97	94	Y	
13	20191IST0029	CHANDAN KUMAR R P	SOE	97	79	Y	
14	20191IST9004	DEEKSHITH REDDY G	SOE	93	80	Y	
15	20191MEC0010	AKASH BIRADAR	SOE	93	88	Y	
16	20191MEC0016	ALLEN K ABRAHAM	SOE	87	93	Y	
17	20191MEC0024	BHANUSH B SHETTY	SOE	93	92	Y	

Name of Course Instructor : Dr. Rajeshwari M

Employee ID of Course Instructor : PUNIV00471



Signature of Instructor-in-Charge



Signature of HOD

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