Lesson Plan (2025-26)

Smt. Monika Name

Applied science (Common for all branches) Discipline

Applied Mathematics 1st Sem. Subject

Year 220012 Code

04/08/2025 to 26/11/2025 Duration 4 Lectures per week Workload

2 Polar 3 Conj 4 addit 5 Revi 6 Loga 7 Revi 8 Bino 9 Bino 10 Revi 11 binor 12 first 1 13 Revi 14 Deter 15 Deter 16 Revis 17 solut 18 defin 19 multi 20 Revis 21 Revis 22 Revis 23 Conc 24 T-Rat proo 25 Revis 26 Produ 27 Appli elevar 28 Revis 29 Carte 30 mid-proo 31 centro	arithms and its basic properties ision omial theorem (mathematical expression) omial theorem (without proof) for;positive integral index (expansion and general form) ision mial theorem for any index(expansion up to 3 terms - without proof)
3 Conj 4 addit 5 Revi 6 Loga 7 Revi 8 Bino 9 Bino 10 Revis 11 binor 12 first l 13 Revis 14 Deter 15 Deter 16 Revis 17 soluti 18 defin 19 multi 20 Revis 21 Revis 22 Revis 23 Conc 24 T-Rat proo 25 Revis 26 Produ 27 Appli elevat 30 mid-p 31 centro	jugate of acomplex number, modulus and amplitude, tion subtraction, multiplication and division of complex number ision arithms and its basic properties ision omial theorem (mathematical expression) omial theorem (without proof) for;positive integral index (expansion and general form) ision mial theorem for any index(expansion up to 3 terms - without proof)
3 Conj 4 addit 5 Revi 6 Loga 7 Revi 8 Bino 9 Bino 10 Revis 11 binor 12 first l 13 Revis 14 Deter 15 Deter 16 Revis 17 soluti 18 defin 19 multi 20 Revis 21 Revis 22 Revis 23 Conc 24 T-Rat proo 25 Revis 26 Produ 27 Appli elevat 30 mid-r 31 centro	jugate of acomplex number, modulus and amplitude, tion subtraction, multiplication and division of complex number ision arithms and its basic properties ision omial theorem (mathematical expression) omial theorem (without proof) for;positive integral index (expansion and general form) ision mial theorem for any index(expansion up to 3 terms - without proof)
4 addit 5 Revi 6 Loga 7 Revi 8 Bino 9 Bino 10 Revi: 11 binor 12 first 1 13 Revi: 14 Deter 15 Deter 16 Revis 17 solut: 18 defin 19 multi 20 Revis 21 Revis 22 Revis 23 Conc 24 T-Rat proo 25 Revis 26 Produ 27 Appli elevar 28 Revis 29 Carte 30 mid-r 31 centre	tion subtraction, multiplication and division of complex number ision arithms and its basic properties ision omial theorem (mathematical expression) omial theorem (without proof) for; positive integral index (expansion and general form) ision mial theorem for any index(expansion up to 3 terms - without proof)
6 Loga 7 Revi 8 Bino 9 Bino 10 Revi: 11 binor 12 first l 13 Revi: 14 Deter 15 Deter 16 Revis 17 solut: 18 defin 19 multi 20 Revis 21 Revis 22 Revis 23 Conc 24 T-Rat proo 25 Revis 26 Produ 27 Appli elevar 28 Revis 29 Carte 30 mid-p 31 centro	arithms and its basic properties ision omial theorem (mathematical expression) omial theorem (without proof) for;positive integral index (expansion and general form) ision mial theorem for any index(expansion up to 3 terms - without proof)
7 Revi 8 Bino 9 Bino 10 Revi 11 binor 12 first 13 Revi 14 Deter 15 Deter 16 Revi 17 solut 18 defin 19 multi 20 Revis 21 Revis 22 Revis 23 Conc 24 T-Rat proo 25 Revis 26 Produ 27 Appli elevar 28 Revis 29 Carte 30 mid-p 31 centre	ision omial theorem (mathematical expression) omial theorem (without proof) for;positive integral index (expansion and general form) ision mial theorem for any index(expansion up to 3 terms - without proof)
8 Bino 9 Bino 10 Revis 11 binor 12 first l 13 Revis 14 Deter 15 Deter 16 Revis 17 soluti 18 defin 19 multi 20 Revis 21 Revis 22 Revis 23 Conc 24 T-Rat proo 25 Revis 26 Produ 27 Appli elevat 28 Revis 29 Carte 30 mid-p 31 centre	omial theorem (mathematical expression) omial theorem (without proof) for;positive integral index (expansion and general form) ision mial theorem for any index(expansion up to 3 terms - without proof)
9 Bino 10 Revis 11 binor 12 first 1 13 Revis 14 Deter 15 Deter 16 Revis 17 solut 18 defin 19 multi 20 Revis 21 Revis 22 Revis 23 Conc 24 T-Rat proo 25 Revis 26 Produ 27 Appli elevat 28 Revis 29 Carte 30 mid-p 31 centre	omial theorem (without proof) for;positive integral index (expansion and general form) ision mial theorem for any index(expansion up to 3 terms - without proof)
10 Revis 11 binor 12 first l 13 Revis 14 Deter 15 Deter 16 Revis 17 soluti 18 defin 19 multi 20 Revis 21 Revis 22 Revis 23 Conc 24 T-Rat proo 25 Revis 26 Produ 27 Appli elevar 28 Revis 29 Carte 30 mid-p 31 centre	ision mial theorem for any index(expansion up to 3 terms - without proof)
11 binor 12 first l 13 Revis 13 Revis 14 Deter 15 Deter 16 Revis 17 soluti 18 defin 19 multi 20 Revis 21 Revis 22 Revis 23 Conc 24 T-Rat proo 25 Revis 26 Produ 27 Appli elevat 28 Revis 29 Carte 30 mid-p 31 centre	mial theorem for any index(expansion up to 3 terms - without proof)
12 first 1 13 Revis 14 Deter 15 Deter 16 Revis 17 soluti 18 defin 19 multi 20 Revis 21 Revis 22 Revis 23 Conc 24 T-Rat proo 25 Revis 26 Produ 27 Appli elevat 28 Revis 29 Carte 30 mid-p 31 centro	
12 first 1 13 Revis 14 Deter 15 Deter 16 Revis 17 soluti 18 defin 19 multi 20 Revis 21 Revis 22 Revis 23 Conc 24 T-Rat proo 25 Revis 26 Produ 27 Appli elevat 28 Revis 29 Carte 30 mid-p 31 centro	
13 Revis 14 Deter 15 Deter 16 Revis 17 soluti 18 defin 19 multi 20 Revis 21 Revis 22 Revis 23 Conc 24 T-Rat proo 25 Revis 26 Produ 27 Appli elevar 28 Revis 29 Carte 30 mid-p 31 centro	binomial approximation with application to engineering problems.
15 Deter 16 Revis 17 soluti 18 defin 19 multi 20 Revis 21 Revis 22 Revis 23 Conc 24 T-Rat proo 25 Revis 26 Produ 27 Appli elevat 28 Revis 29 Carte 30 mid-p	
16 Revis 17 soluti 18 defin 19 multi 20 Revis 21 Revis 22 Revis 23 Conc 24 T-Rat proo 25 Revis 26 Produ 27 Appli elevar 28 Revis 29 Carte 30 mid-p 31 centro	erminants Evaluation
16 Revis 17 soluti 18 defin 19 multi 20 Revis 21 Revis 22 Revis 23 Conc 24 T-Rat proo 25 Revis 26 Produ 27 Appli elevar 28 Revis 29 Carte 30 mid-p 31 centro	erminants and Matrices – Evaluation of determinants (upto 2 nd order)
18 defin 19 multi 20 Revis 21 Revis 22 Revis 23 Conc 24 T-Rat proo 25 Revis 26 Produ 27 Appli elevat 28 Revis 29 Carte 30 mid-r 31 centre	
18 defin 19 multi 20 Revis 21 Revis 22 Revis 23 Conc 24 T-Rat proo 25 Revis 26 Produ 27 Appli elevat 28 Revis 29 Carte 30 mid-r 31 centro	tion of equations (upto 2 unknowns) by Crammer's rule,)
19 multi 20 Revis 21 Revis 22 Revis 23 Conc 24 T-Rat proo 25 Revis 26 Produ 27 Appli elevar 28 Revis 29 Carte 30 mid-p 31 centro	nition of Matrices and its types, addition, subtraction (upto 2nd order).
21 Revis 22 Revis 23 Conc 24 T-Rat proo 25 Revis 26 Produ 27 Appli elevar 28 Revis 29 Carte 30 mid-p 31 centro	iplication of matrices (upto 2nd order).
22 Revis 23 Conc 24 T-Rat proo 25 Revis 26 Produ 27 Appli elevar 28 Revis 29 Carte 30 mid-p 31 centro	sion
23 Conc 24 T-Rat proo 25 Revis 26 Produ 27 Appli elevat 28 Revis 29 Carte 30 mid-r 31 centro	sion
24 T-Rat proo 25 Revis 26 Produ 27 Appli elevat 28 Revis 29 Carte 30 mid-r 31 centro	
24 T-Rat proo 25 Revis 26 Produ 27 Appli elevar 28 Revis 29 Carte 30 mid-r 31 centro	cept of angle, measurement of angle in degrees, grades, radians and their conversions.
25 Revis 26 Produ 27 Appli elevar 28 Revis 29 Carte 30 mid-p 31 centro	tios of Allied angles (without proof), Sum, Difference formulae and their applications (without
26 Product 27 Application 28 Revision 29 Carter 30 mid-p 31 centro	
27 Appli elevar 28 Revis 29 Carte 30 mid-p 31 centro	uct formulae (Transformation of product to sum, difference and vice versa)
 28 Revis 29 Carte 30 mid-r 31 centro 	ications of Trigonometric terms in engineering problems such as to find an angle of the stance etc.
 29 Carte 30 mid-p 31 centro 	
30 mid-p	esian and Polar co. ordinates (two dimensional). Di
31 centro	esian and Polar co-ordinates (two dimensional), Distance between two points point, of a triangle
The state of the s	
	oid of vertices of a triangle
	ision
The same of the sa	pe of a line, equation of straight line in various standards forms (without proof)
36 norm	me intercept form, intercept form, one-point form, two-point form, symmetric form) mal form, general form of slope
37 Rev	mai form, general form of slope

38	Revision
39	intersection of two straight lines, concurrency of lines, angle between straight lines,
40	Revision
41	parallel and perpendicular lines, perpendicular distance formula, conversion of general form of equation to the various forms.
42	Revision
43	General equation of a circle and its characteristics. To find the equation of a circle
44	Centre and radius
45	Three points lying on it
46	Revision
47	MATLAB Or SciLab software – Theoretical Introduction, MATLAB or Scilabas
48	Devision
49	Simple Calculator (Addition and subtraction of values – Trigonometric and Inverse function
50	Gernal practice of MATLAB
51	Gernal practice of MATLAB

Note: There will be class Tests, Assignments, Sessional Exams and Quizzes etc. will be given as per Academic Calendar.

28/04/28

PAC committee Member - 1

(Sh. Narender Rana)

PAC Committee Member - 2

(Smt. Sonia)

PAC Committee Member - 3

(Dr. Jyoti Gupta)