ANNUAL ACADEMIC PLAN 2022-2023 MATHEMATICS-II (B)

II YEAR

Month/ No. of working days& Periods	Topics to be covered Unit test/ Exams/ Assignments/EAMCET classes to be conducted.	Periods allotted for each topic
June	Syllabus and pre-requisites	02
14	01. Circle :	0.6
	1.1 Equation of circle -standard form-centre	06
	segment as diameter & equation of circle	
	through three non collinear points -parametric	
	equations of a circle.	
	1.2 Position of a point in the plane of a circle –	05
	power of a point-definition of tangent-length	
	of tangent	
	ASSIGNMENT-I	01
July	1.3 Position of a straight line in the plane of a	05
24	circle-conditions for a line to be tangent –	
	chord joining two points on a circle –	
	equation of the tangent at a point on the	
	circle- point of contact-equation of normal.	0.7
	1.4 Chord of contact - pole and polar-conjugate	05
	abord with given middle point	
	1.5 Relative position of two circles - circles	06
	touching each other externally internally	00
	common tangents –centers of similitude-	
	equation of pair of tangents from an external point.	
	EAMCET classes on Circles	02
	02. System of circles:	
	2.1 Angle between two intersecting circles.	05
	ASSIGNMENT-II	01
August	2.2 Radical axis of two circles- properties-	05
22	Common chord and common tangent of two circles –	
	radicalcentre.	01
	EAMCET classes on system of circles	01
	06 Integration ·	
	6.1 Integration as the inverse process of	04
	differentiation-Standard forms –properties of	
	integrals.	
	6.2 Method of substitution- integration of	10
	Algebraic, exponential, logarithmic,	

	trigonometric and inverse trigonometric functions	
	Integration by parts	
	INIT TEST _I	01
	ASSICNMENT_III	01
Sontombor	6.3 Integration-Partial fractions method	01
25	6.4 Reduction formulae	03
23	EAMCET classes on integration	03
	07 Definite Integrals:	01
	7.1 Definite Integral as the limit of sum	03
	7.2 Interpretation of Definite Integral as an area	03
	7.3 Fundamental theorem of Integral Calculus	03
	7.1 Properties	03
		03
	ASSIGNMENT_IV	01
		2022
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October	7.5 Reduction formulae.	05
19	7.6 Application of Definite integral to areas.	04
	EAMCET classes on Definite integrals	01
	08. Differential equations:	
	8.1 Formation of differential equation-Degree	02
	and order of an ordinary differential equation.	
	8.2 Solving differential equation by	
	a) Variables separable method	03
	b) Homogeneous differential equation.	03
	UNIT TEST -III	01
November	c) Non - Homogeneous differential equation.	04
24	d) Linear differential equations.	04
(18P)	EAMCET class on differential equations	02
	03. Parabola:	
	3.1 Conic sections –Parabola- equation of	08
	parabola in standard form-different forms of	
	parabola- parametric equations.	
HALF YEA	RLY EXAMINATIONS FROM 21-11-2022 TO 2	6-11-2022
December	2.2 Equations of tangant and normal at a	06
December	5.2 Equations of tangent and normal at a	00
25	politi oli tile pai abola (Cal testali allu	
	parametric)- conditions for straight line to	
		01
	EAMILET CLASSES ON PARADOLA	UI
	V4. EIIIPSE:	0.0
	4.1 Equation of ellipse in standard form-	06
	Parametric equations.	0.0
	4.2 Equation of tangent and normal at a point	06
	on the ellipse (Cartesian and parametric)-	
	Condition for a straight line to be a tangent.	

	05. Hyperbola:	
	5.1 Equation of hyperbola in standard form-	04
	Parametric equations.	
	UNIT TEST-IV	01
	ASSIGNMENT-V	01
January	5.2 Equations of tangent and normal at a point	04
23	on the hyperbola (Cartesian and	_
	parametric)- conditions for a straight line to	
	be a tangent- Asymptotes	
	EAMCET class on Ellipse and Hyperbola	02
	DEVICIÓN	
	KEVISION	17
PRE-F	INAL EXAMINATIONS FROM 06-02-2023 TO 13-02-20	17 023
PRE-F February	INAL EXAMINATIONS FROM 06-02-2023 TO 13-02-20	17 023
PRE-F February 22	REVISION INAL EXAMINATIONS FROM 06-02-2023 TO 13-02-20 REVISION	17 23 9
PRE-F February 22 (9p)	REVISION INAL EXAMINATIONS FROM 06-02-2023 TO 13-02-20 REVISION	<u>17</u> 23 9
PRE-F February 22 (9p) PRACT	INAL EXAMINATIONS FROM 06-02-2023 TO 13-02-20 REVISION ICAL EXAMS IPE-2023 FROM 20-02-2023 TO 06-03-2	17 23 9 023
PRE-F February 22 (9p) PRACT March	INAL EXAMINATIONS FROM 06-02-2023 TO 13-02-20 REVISION TICAL EXAMS IPE-2023 FROM 20-02-2023 TO 06-03-2 REVISION	17 23 9 023
PRE-F February 22 (9p) PRACT March 23	INAL EXAMINATIONS FROM 06-02-2023 TO 13-02-20 REVISION TICAL EXAMS IPE-2023 FROM 20-02-2023 TO 06-03-2 REVISION LAST WORKING DAY : 31-03-2020	17 23 9 023

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