Table 1

INDIRA GANDHI GOVT COLLEGE PANDARIA, DISTT. KABIRDHAM

ANNUAL TEACHING PLAN (ACADEMIC SESSION 2023-24)

COURSE:UNDER GRADUATION | SUBJECT : Mathematics | CLASS: B.Sc. I/II/III

NAME OF TEACHER: Mr. Omprakash Dewangan

EXPECTED MONTH	PAPER AND UNIT	TOPIC DESCRIPTION			Expected class	Tutorial / Remedial classes	Co-curricular activities	Extra curricular activities	Teaching Aids
		B.Sc. I	B.Sc. II	B.Sc. III					
July	P1-U1,Free and Open Source Software (FOSS), P2-U1	Set theory: sets, relation, countability, divisible algorithm, Modular arithmetic and basic property of congruence. Practicals, Sequence, Continuity and differentiability, Project guidance	Basic of knowledge of mathematics, function	Set theory,	20+10+15=45	4	Plantation in campus	Cleanness programme	Chalk and board
August	P1-U1, FOSS,	Theory of equation: Elementary theorems on roots of polynomial, Imaginary roots, The fundamental theorems on the roots, D'movier's theorem, Practicals, Lagrange's mean value theorem, Darboux's theorem.	Convergence of sequences, convergence of series of non-negative term, Alternative series, Leibnitz's theorem, absolute and conditional convergence, Continuity of function of two variable, differentiability, mean value theorem. And Taylor theorem.	Metric space, Subspace of metric space, Contraction principal, Dense subset, Countable space, Complete order field., continuous function, compactness,connectness.	21+21+21=63	4	Independence Day	Soft skill programme	PPT, Using ICT and Chalk board
September	P1-U2, FOSS, P2-U2	Group theory, subgroups, Practical, Expansion of function, Leibnitz theorem, Maclaurin's and Taylor theorem, Project guidance	Beta and Gamma functions, Double and Triple integrals, Change of order of integration, Limit and continuity of function of two variable, PD and Euler's theorem, Change of variable, Taylor,s theorem, Jacobians,	Complex number and their geometrical representation,Continuity and differentiability, Elementary function, Mobious transformation, conformal mapping,Series of arbitrary term and double seriesPartial derivative, Fourier series	22+22+22=66	4	National Hindi Day.	cleanness programme	Using ICT and Chalk board
October	P1-U2, FOSS, P2-U3	Normal subgroup and isomorphism; Practicals, Curvature, Asymptotes, Project guidance.	Envolopes aan evaluates, Maxima, minima, and saddle point, Power series solution of DE, Bessel's equation, Legendre's equation, Sturm Liouville Problem	Riemann Integral, Improper integral. And their test of Convergence. Group automorphism, conjugacy relation, sylow's theorem and structure theorem. For finite abelian group.	25+25+25=75	4	Gandhi Jayanti,	Quiz compitition	Using ICT and Chalk board
November	P1-U3, FOSS, P2-U3	Cyclic group and permutation group; Practicals, Curve tracing, envelop and evolutes, Project guidance.	Laplace Transformation, Invers Laplace transformation, Solution of IE and DE, PDE of first order, Lagranges solution, PDE of 2nd order, Homogenous and non homogenous equation, PDE and Monies method,	Ring theory, module, Vector space, Linear transformation. And their matrix representation, Rank and Nullity theorem, Dual, Adjoint, Eigen values, Eigen vector of a Linear transformation, Bilinear transformation, Quadratic form.	19+19+19 =57	4	Unity day,	Mathematics poem compitition,	Using ICT and Chalk board
December	P1-U4, FOSS, P2-U4	Row Echelon form of Matrix and application, Limit, continuity and first order partial derivative, Higher order partial derivative.	Calculus of variation, variational problem, sufficient condition for extremum, Equilibrium of coplanar force, stable and unstable, virtual work, catenary,	Inner product,Sets and propositional, Computability and formal language,	22+22+22 =66	4	National mathematics day	Sports. Activity	Using ICT and Chalk board
January	P1-U4, FOSS, P2-U4	Vector Space, practicals, Change of variable, Euler's theorem for homogenous function, Taylor's theorem, Jacobian,	Force in three dimension, Null lines and Null planes, SHM, Elastic strings, velocity, and acceleration along radial and transvers direction, Projectile, Central orbits.	Relation and. Function, Graphs and planar graphs, Finite state machine, Analysis of algorithms,	23+ 23+23=69	4	National youth day	essay writing compitition,	Using ICT and Chalk board
February	P1-U4, FOSS	Linear Transformation, Practical, double and Triple integral, Project guidance.	Kepler's. Laws of motion, velocity and acceleration in tangential and Normal direction, motion of smooth and rough plane, Motion in a residence medium, motion of partical of varying mass, motion of. A particle in three dimension.	Recurrence relation and recursive algorithms, Boolean algebra,	23+ 23+23=69	4	Science day	Poster presentation competition	Using ICT and Chalk board
March		Revision	Revision	Revision					

Note: (1) Remedial and Tutorial class will be organised according to time table.

(2)Presentation/ Seminar/ Group discussion also take according as per plan.

(3)Co-curricular activities and Extra curricular activities are also organised as per plan.

PRINCIPAL
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