

SEWA, हर विद्यार्थी के साथ



PRE-ENGINEERING

MAIN + ADVANCED

WE HAVE PLANNED YOUR SUCCESS JOURNEY

SESSION: 2021-22



SEWA
EDUCATIONAL INSTITUTE

PRE-ENGINEERING

For Classes 11th to 12th Pass

JEE MAIN

Till 2018 Joint Entrance Examination main is conducted by Central Board of Secondary Education (CBSE) but from 2019 onwards JEE(Main) is being conducted twice in a year. JEE(Main) is the single gateway for admission in NITs, IIITs, CFTIs as well as other engineering colleges and technology institutes run by the state government and private institutions who have adopted JEE.

The most decisive point about the JEE(main) exam is that approx. top 2.4 lakh candidates of JEE(Main) are eligible for JEE Advanced Examination . Hence it is very important for JEE(Main) aspirants to be thoroughly prepared for upcoming test.

JEE ADVANCED

Students who crack JEE(Advanced) are able to join the under graduate programs in engineering, architecture and sciences at all IITs and ISM Dhanbad according to their ALL INDIA RANK(AIR) in the exam.

BITSAT

The Birla Institute Of Technology and Science(BITS) Pilani is one of the best institutions in India offering technology and engineering programmes as well as other professional courses. It has a status of a Deemed university under section 3 of UGC Act. BITSAT(BITS Admission Test) is a computer based admission test conducted by BITS ,Pilani for its integrated first degree programmes offered by all its three campuses –PILANI Campus, GOA Campus and HYDERABAD Campus.

COMED-K

COMEDK UGET is a state-level entrance exam conducted by the Consortium of Medical, Engineering and Dental Colleges of Karnataka. The exam is a gateway for admissions to engineering and architecture courses offered by more than 120 colleges/institutes that accept COMEDK scores.

JEE(MAINS+ADVANCED)
For 10th to 11th moving students

Physics		Chemistry		Maths	
Topics	No. of Lec.	Topics	No. of Lec.	Topics	No. of Lec.
Basic Mathematics	2	Atomic Structure	13	BASIC MATH & LOG	9
Unit and dimension	4	Stoichiometry (I) / Mole Concept	13	TRIGONOMETRIC PHASE - 1	15
Vector and Calculus	10	Stoichiometry(II) / Redox Reactions	10	QUADRATIC EQUATIONS	12
Kinematics	12	Gaseous	11	SEQUENCE & PROGRESSIONS	12
Constrained Motion NLM Friction	15	Chemical Equilibrium	10	TRIGONOMETRIC PHASE - 2	6
Circular	8	Nomenclature of Organic compound(IUPAC)	9	SOLUTION OF TRIANGLE	15
WPE	8	GOC (General Organic Chemistry)	12	DETERMINANT	4
Centre of mass	10	Isomerism	5	Straight LINE	15
Rotational Motion	12	Periodic Property	9	CIRCLE	12
SHM	10	Chemical bonding	18	PERMUTATION COMBOINATION	12
Waves	8	S-block	4	BINOMIAL THEOREM	12
Sound waves	6	P-block	6	CONIC SECTION	12
Heat-1	8				
Heat-2	8				
Elasticity Thermal Expansion	4				
Fluids	5				
Surface Tension & Viscosity	5				
Errors	2				

*Number of Lectures are tentative, which varies from Phase to Phase

JEE(MAINS+ADVANCED)

For 11th to 12th moving students

Physics		Chemistry		Maths	
Topics	No. of Lec.	Topics	No. of Lec.	Topics	No. of Lec.
Geometrical optics	20	Chemical Kinetics	11	Relation & Function	13
Electrostatics-1	10	Radio activity	4	Inverse Trigonometric Function	7
Electrostatics-2	8	Solution & Colligative Properties (Liq. Sol.)	7	Limit	7
Current Electricity	10	Solid State	6	Continuity	4
Capacitance	8	Ionic Equilibrium	8	Differentiability	3
Magnetism	12	Electro Chemistry	7	Method of Differentiability	6
Electromagnetic Induction	8	Thermodynamics	13	Indefinite Integration	12
Alternating Current	5	Thermochemistry	6	Definite Integration	11
Electro Magnetic Waves	2	Surface chemistry	6	Tangents & Normals	5
Wave Optics	8	Hydrocarbon	12	Monotonicity	5
Modern-I	10	Alkyl Halide	10	Maxima & Minima	5
Modern-II	3	Grignard reagent	3	Differential Equation	5
Electronics (Semiconductor)	6	Alcohol, Phenol and Ether	6	Area Under The Curve	3
Communication System	3	Carbonyl compound	11	Matrix	6
Kinematics	10	Carboxylic acid & their derivatives	5	Vector	10
Constrained Motion NLM Friction	10	Aromatic compounds	6	3-D	4
Circular	6	Amine(Nitrogen Compound)	5	Complex Number	10
WPE	8	Biomolecules & polymers	6	Probability	9
Centre of mass	8	Coordination chemistry	11	Parabola	5
Rotational Motion	10	Metallurgy	7	Ellipse	5
SHM	7	D-block	3	Hyperbola	5
Waves	5	F- Block	3	JEE Mains Topics	3
Sound waves	4	Salt Analysis	15	Trigonometric Phase - 1	9
Heat-1	10	Atomic Structure	5	Quadratic Equations	6
Heat-2	5	Stoichiometry (I) / Mole Concept	5	Sequence & Progressions	8
Elasticity Thermal Expansion	3	Stoichiometry(II) / Redox Reactions	5	Trigonometric Phase - 2	4
Fluids	5	Gaseous	6	Solution of Triangle	5
Surface Tension & Viscosity	4	Chemical Equilibrium	6	Determinant	4
Errors	2	Nomenclature of Organic compound (IUPAC)	5	Straight IINE	8
Gravitation	5	GOC (General Organic Chemistry)	9	Circle	8
		Isomerism	15	Permutation Combination	8
		Periodic Property	5	Binomial Theorem	6
		Chemical bonding	18		
		S-block	3		
		P-block	5		
		Chemistry in Everyday Life	3		

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JEE(MAINS+ADVANCED)

For 12th to 13th moving students

Physics		Chemistry		Maths	
Topics	No. of Lec.	Topics	No. of Lec.	Topics	No. of Lec.
Geometrical optics	18	Chemical Kinetics	9	RELATION & FUNCTION	13
Electrostatics-1	9	Radio activity	4	INVERSE TRIGONOMETRIC FUNCTION	7
Electrostatics-2	7	Solution & Colligative Properties (Liq. Sol.)	6	LIMIT	7
Current Electricity	9	Solid State	5	CONTINUITY	4
Capacitance	7	Ionic Equilibrium	7	DIFFERENTIABILITY	3
Magnetism	11	Electro Chemistry	6	METHOD OF DIFFERENTIABILITY	5
Electromagnetic Induction	7	Thermodynamics	11	INDEFINITE INTEGRATION	10
Alternating Current	4	Thermochemistry	5	DEFINITE INTEGRATION	10
Electro Magnetic Waves	2	Surface chemistry	6	TANGENTS & NORMALS	4
Wave Optics	7	Hydrocarbon	10	MONOTONOCITY	4
Modern-I	9	Alkyl Halide	9	MAXIMA & MINIMA	4
Modern-II	3	Grignard reagent	3	DIFFERENTIAL EQUATION	5
Electronics (Semiconductor)	5	Alcohol, Phenol and Ether	5	AREA UNDER THE CURVE	3
Communication System	3	Carbonyl compound	10	MATRIX	6
Kinematics	9	Carboxylic acid & their derivatives	5	VECTOR	9
Constrained Motion NLM Friction	10	Aromatic compounds	5	3-D	4
Circular	5	Amine (Nitrogen Compound)	4	COMPLEX NUMBER	9
WPE	7	Biomolecules & polymers	6	PROBABILITY	7
Centre of mass	7	Coordination chemistry	10	PARABOLA	4
Rotational Motion	10	Metallurgy	6	ELLIPSE	4
SHM	7	D-block	3	HYPERBOLA	4
Waves	5	F- Block	3	JEE MAINS TOPICS	3
Sound waves	4	Salt Analysis	13	TRIGONOMETRIC PHASE - 1	9
Heat-1	9	Atomic Structure	5	QUADRATIC EQUATIONS	6
Heat-2	5	Stoichiometry (I) / Mole Concept	5	SEQUENCE & PROGRESSIONS	7
Elasticity Thermal Expansion	3	Stoichiometry(II) / Redox Reactions	5	TRIGONOMETRIC PHASE - 2	4
Fluids	5	Gaseous	6	SOLUTION OF TRIANGLE	5
Surface Tension & Viscosity	3	Chemical Equilibrium	6	DETERMINANT	4
Errors	2	Nomenclature of Organic compound (IUPAC)	5	Straight LINE	8
Gravitation	4	GOC (General Organic Chemistry)	9	CIRCLE	8
		Isomerism	15	PERMUTATION COMBOINATION	7
		Periodic Property	5	BINOMIAL THEOREM	5
		Chemical bonding	15		
		S-block	3		
		P-block	5		
		Chemistry in Everyday Life	3		

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