Bsc mathematics honours syllabus pdf

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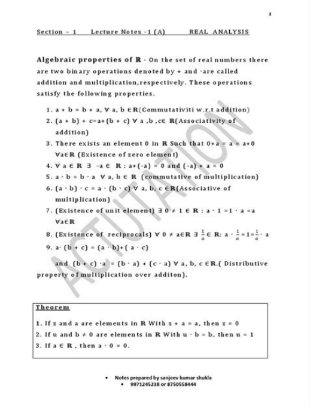

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SEC: Skill Enhancement Courses 78 – 90

DSE: Discipline Specific Elective Courses 91 - 116

GE: Generic Elective Courses 117 - 142

Course Structure(Physics-Major)

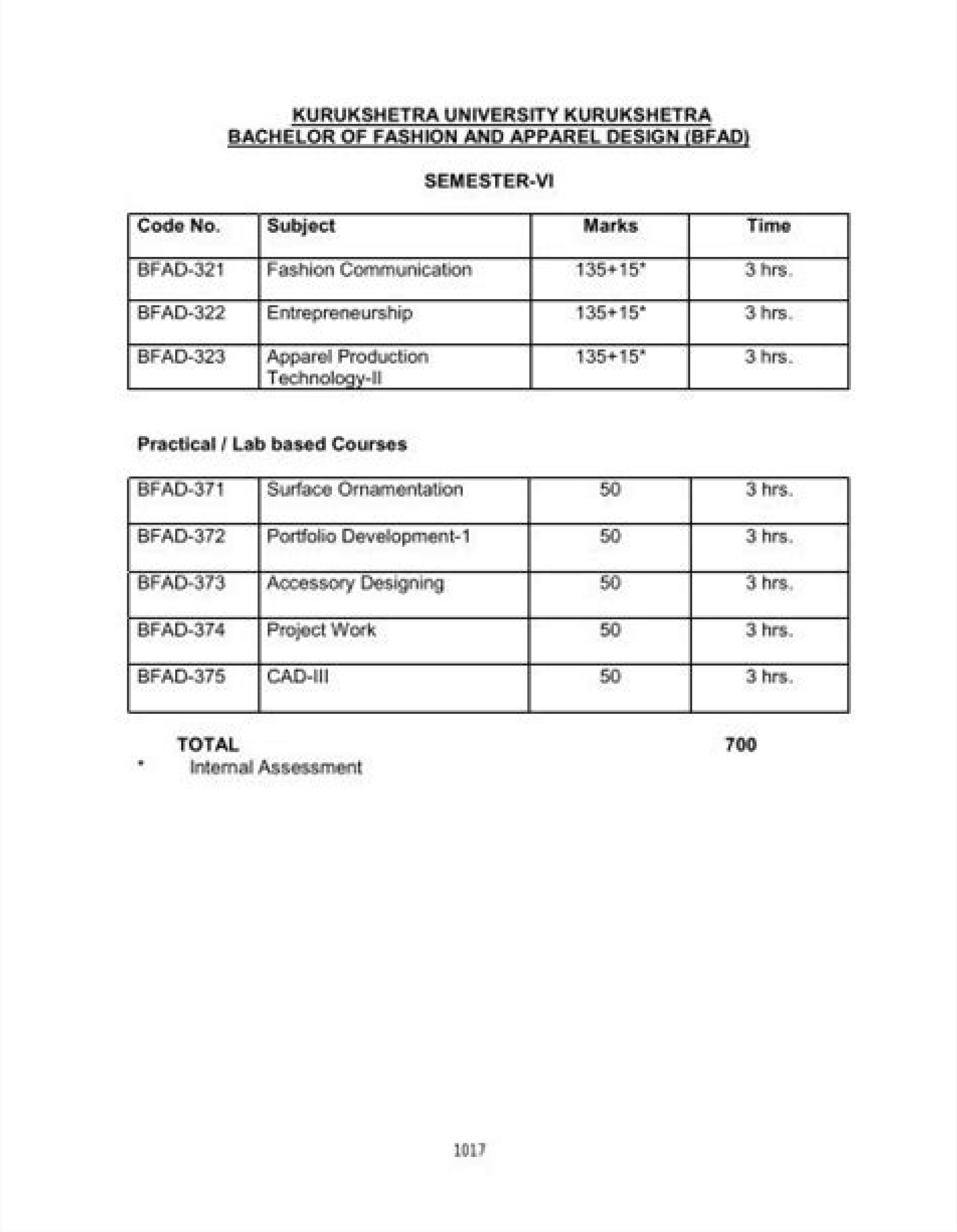
Details of courses under B.Sc. (Honours)

Course	***Credits**	
	Theory+ Practical	Theory + Tutorial
I. Core Course		
(14 Papers)	14X4= 56	14X5=70
Core Course Practical / Tutorial*		
(14 Papers)	14X2=28	14X1=14
II. Elective Course		
(8 Papers)		
A.1. Discipline Specific Elective	4X4=16	4X5=20
(4 Papers)		
A.2. Discipline Specific Elective Practical/Tutorial*	4 X 2=8	4X1=4
(4 Papers)		
B.1. Generic Elective/ Interdisciplinary	4X4=16	4X5=20
(4 Papers)		
B.2. Generic Elective Practical/ Tutorial*	4 X 2=8	4X1=4
(4 Papers)		

Optional Dissertation or project work in place of one Discipline Specific Elective paper (6 credits) in 6th Semester

III. Ability Enhancement Courses		
1. **Ability Enhancement Compulsory**		
(2 Papers of 2 credit each)	2 X 2=4	2 X 2=4
Environmental Science English/MIL Communication		
2. **Ability Enhancement Elective** (Skill Based)		
(Minimum 2)	2 X 2=4	2 X 2=4
(2 Papers of 2 credit each)		
Total credit	**140**	**140**

Institute should evolve a system/policy about ECA/ General Interest/Hobby/Sports/NCC/NSS/related courses on its own.
***Wherever there is a practical there will be no tutorial and vice-versa. The size of group for practical papers is recommended to be maximum of 12 to 15 students.**



KURUKSHETRA UNIVERSITY KURUKSHETRA
BACHELOR OF FASHION AND APPAREL DESIGN (BFAD)

SEMESTER-VI

Code No.	Subject	Marks	Time
BFAD-321	Fashion Communication	135+15*	3 hrs.
BFAD-322	Entrepreneurship	135+15*	3 hrs.
BFAD-323	Apparel Production Technology-II	135+15*	3 hrs.

Practical / Lab based Courses

BFAD-371	Surface Ornamentation	50	3 hrs.
BFAD-372	Portfolio Development-1	50	3 hrs.
BFAD-373	Accessory Designing	50	3 hrs.
BFAD-374	Project Work	50	3 hrs.
BFAD-375	CAD-III	50	3 hrs.

TOTAL 700

* Internal Assessment

1017

Bsc mathematics honours syllabus du. How many subjects are there in bsc honours. How many subjects in bsc maths honours. What is bsc mathematics honours.

The Indian Institutes of Technology (IITs) were created by a Parliamentary Act and are important national institutions. A renowned research and educational institution, the Indian Institute of Science (IISc) was founded in 1909. The IISc Bangalore and IITs are highly renowned around the world for providing top-notch management, engineering, and scientific education as well as conducting cutting-edge research. Building a solid knowledge base, pursuing excellence, and fostering creativity in a stimulating intellectual atmosphere are the goals of these institutions.IITs began administering a Joint Admission Test for M.Sc. applicants in the Academic Session 2004–2005. (JAM). JAM's goal is to provide admissions to the M.Sc. (Two Years), Joint M.Sc.-Ph.D., M.Sc.-Ph.D. Dual Degree, and other Post-Bachelor Degree Programmes at the IITs, as well as the Integrated Ph.D. Degree Programmes at IISc, and to solidify Science as a viable career option for talented students from all over the nation. The JAM programme is anticipated to set a standard for scientific teaching at the undergraduate level nationwide. The IISc's Integrated Ph.D. programme was established in the early 1990s to allow students to enrol straight in a Ph.D. programme after earning their B.Sc. The Integrated Ph.D. Programs at IISc and the M.Sc. (Two Years), Joint M.Sc.-Ph.D., M.Sc.-Ph.D. Dual Degree, and other Post-Degree Bachelor's Programs at the IITs provide top-notch education in their respective fields that is on par with the finest in the world.IIT JAM Examination Pattern   Particulars Details Exam Duration 3 hours Total number of questions 60 Section 3 (Sec A, B and C) Question Type MCQ, MSQ and NAT Total Marks 100 SECTION WISE QUESTION DISTRIBUTION Section Total number of Questions Number of Marks per Question Total Marks Section A 10 1 10 20 2 40 Section B 10 2 20 Section C 10 1 10 10 2 20 Note: In all sections, questions not attempted will result in zero marks.In Section-A (MCQ), the wrong answer will result in negative marks. For each wrong answer of 1 mark question, 1/3 mark will be deducted and similarly, for each wrong answer of 2 marks questions, 2/3 mark will be deducted.In Section-B (MSQ), there are no negative and no partial marking provisions. There is no negative marking in Section-C (NAT) as well.DETAILED SYLLABUS Topic Subtopic Mathematical Methods This topic covers Calculus of single and multiple variables, partial derivatives along with Jacobian, imperfect and perfect differentials, Fourier series, etc. It also includes Vector algebra and Calculus, Divergence theorem, Green's theorem, Stokes' theorem. Apart from that, there are details on First order equations as well as linear second order differential equations along with constant coefficients. Matrices and determinants, different sections of Algebra for complex numbers, etc. Mechanics and General Properties of Matter All the topics that fall under this section are Newton's laws of motion along with its applications, Velocity and acceleration in Cartesian, uniformly rotating frame, and Coriolis forces, polar as well as cylindrical coordinate systems. Besides, Motion under a central force, details on Kepler's laws, concepts of Gravitational Law and field, and also Conservative and non-conservative forces. There are also some others like the System of particles, motion's equation of the CM, details on conservation of linear and angular momentum, facts on conservation of energy and variable mass systems, etc. Concept and analysis of Elastic and inelastic collisions. Rigid body motion, moments of Inertia and products of Inertia, parallel and perpendicular axes theorem, and the most important moments and axes. There are also some theories like Kinematics of moving fluids, equation of continuity, Euler's equation, and Bernoulli's theorem, etc. Oscillations, Waves and Optics Under this unit, all the subtopics are a distinctive equation for the common harmonic oscillator along with the outcome of it. The top position of two or more than that simple harmonic oscillators. Also, there are Lissajous figures; details on Damped and forced oscillations and resonance. Aside from that, Wave equation and standing waves in one-dimension. Detail analysis of Energy density and energy transmission in waves. The concept of Group and phase velocity. And also, Sound waves in the media. There are a lot of theories in this unit such as the Doppler Effect. Principle of Fermat. The common theory of image formation. All the forms of the lens, Interference of light, and optical path retardation. Rayleigh criterion as well as resolving power. Diffraction gratings. The polarization includes not only linear and circular but also elliptic polarization. Details about Double refraction along with optical rotation. Electricity and Magnetism This section comprises some of the main areas that are the law of Coulomb and the law of Gauss. Basic concept on Electric field and potential. It also covers Electrostatic boundary conditions and the Outcome of Laplace's equation that are made for common cases. There is also dielectric polarization, volume along with surface charges, details on electrostatic energy. Some other theory portions are there such as the law of Biot-Savart, the law of Ampere, details on Faraday's law of electromagnetic induction along with Self and mutual inductance. Al the process and forms of Alternating currents. Displacement current, Maxwell's equations, and plane electromagnetic waves. Also, there are Poynting's theorem, detailed analysis on transmission and reflection coefficients used for only normal incidence. Kinetic theory and Thermodynamics In this unit, all the areas are all the Elements of Kinetic theory of gases, details on Velocity distribution as well as Equipartition of energy. There is also the concept of Specific heat of Mono-, di- and tri-atomic gases. All kinds of equations of state. Details on Thermodynamics law. Zeroth law and the overall idea of thermal equilibrium. All about First law and the consequences of the same. What's more, Isothermal along with adiabatic processes. The process regarding Reversible and irreversible and also quasi-static. Concept of Carnot cycle. Maxwell's thermodynamic relations and some applications that are not difficult. Everything on Thermodynamic potentials along with its applications. Detail Idea of ensembles. And also, Maxwell-Boltzmann, Fermi-Dirac, and Bose-Einstein distributions. Modern Physics Inertial frames and Galilean invariance. Postulates of special relativity. Lorentz transformations. Length contraction, time dilation. Relativistic velocity addition theorem, mass-energy equivalence. Blackbody radiation, photoelectric effect, Compton effect, Bohr's atomic model, X-rays. Wave-particle duality, Uncertainty principle, the superposition principle, calculation of expectation values, Schrödinger equation and its solution for one, two and three-dimensional boxes. A solution of Schrödinger equation for the one-dimensional harmonic oscillator. Reflection and transmission at a step potential, Pauli exclusion principle. Structure of the atomic nucleus, mass, and binding energy. Radioactivity and its applications. Laws of radioactive decay. Solid State Physics, Devices and Electronics Crystal structure, Bravais lattices, and basis. Miller indices. X-ray diffraction and Bragg's law; Intrinsic and extrinsic semiconductors, a variation of resistivity with temperature. Fermi level. p-n junction diode, I-V characteristics, Zener diode, and its applications, BJT: characteristics in CB, CE, CC modes. Single stage amplifier, two-stage R-C coupled amplifiers. Simple Oscillators: Barkhausen condition, sinusoidal oscillators. OPAMP and applications: Inverting and non-inverting amplifier. Boolean algebra: Binary number systems; conversion from one system to another system; binary addition and subtraction. Logic Gates AND, OR, NOT, NAND, NOR exclusive OR; Truth tables; a combination of gates; de Morgan's theorem. Handwritten Notes Available For Classical Mechanics (To be added soon)Price Details Price Combo Pack Individual Purchase Electromagnetic Theory Mathematical Physics Electronics Waves and optics Quantum Mechanics Thermodynamics Solid State Physics Nuclear Physics Electromagnetic Theory: Rs 41 Mathematical Physics: Rs 41 Electronics: Rs 41 Waves and optics: Rs 35 Quantum Mechanics: Rs 41 Thermodynamics: Rs 35 Solid State Physics: Rs 25 Nuclear Physics: Rs 15 Total : Rs 200/- (Rs 274/-) Total : Rs 274/- You Save Rs 74/- Combo Pack Details Subject Name Electromagnetic Theory Mathematical Physics Electronics Waves and optics Quantum Mechanics Thermodynamics Solid State Physics Nuclear Physics Type Handwritten Format Pdf Price Rs 200/- Click to Download Details Subject Name Electromagnetic Theory Type Handwritten Format Pdf No. of Pages 308 Size 39 MB Price Rs 41/- Click to Download Details Subject Name Mathematical Physics Type Handwritten Format Pdf No. of Pages 180 Size 54.9 MB Price Rs 41/- Click to Download Details Subject Name Quantum Mechanics Type Handwritten Format Pdf No. of Pages 74 Size 24.2 MB Price Rs 41/- Click to Download Details Subject Name Electronics Type Handwritten Format Pdf No. of Pages 167 Size 46.4 MB Price Rs 41/- Click to Download Details Subject Name Thermodynamics Type Handwritten Format Pdf No. of Pages 160 Size 43.8 MB Price Rs 35/- Click to Download Details Subject Name Waves and Optics Type Handwritten Format Pdf No. of Pages 133 Size 56.7 MB Price Rs 35/- Click to Download Details Subject Name Solid State Physics Type Handwritten Format Pdf No. of Pages 45 Size 16.2 MB Price Rs 25/- Click to Download Details Subject Name Nuclear Physics Type Handwritten Format Pdf No. of Pages 15 Size 8.1 MB Price Rs 15/- Click to Download with regards,By Bsc Physics Notes

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