

Department -Statistics-BSc(Major-Statistics)												
Level +Sem		Disciplinary Major Mandatory	DSE Electives	Minor(Electronics)	Mathematics	Physics	Chemistry	OE	VC/SEC	AEC, VEC, IKS	OJT, FP, CEP, CC, RP	Total
4.5	I	4Cr-T:Descriptive Statistics 2Cr-P:Practical based on descriptive statistics						2Cr-P:Data visualization using MS Excel (Hands on training) 2Cr-T:Counting Principles used in	4Cr-T:Sampling methods and survey (Theory+Project) (SEC)	2r-P-English-I(AEC) 2Cr-P- Statistcal computation using MS Excel (VEC) 2Cr-T:Study of population (IKS)	CC : 2Cr:Physical Education	22
4.5	II	4Cr-T:Discrete probability and probability distributions 2Cr-P: Practical based on discrete probability and probability distributions		2Cr-T:Basics of Electronic devices and Systems	2Cr-T:Basic Course in Algebra	2Cr-T: Calibration Techniques/ Instrumentation for agriculture	2 Cr-T: Fundamental Biochemistry	2Cr-T:Study of some important continuous probability distributions 2Cr-T:Operation research, Project evaluation	4 Cr-T:Skills for project report writting (SEC)	2Cr-T:English_II (AEC) 2Cr-P- Introduction to R software (VEC)	CC: 2Cr :Fine arts	22
Cumulative		12		2			8	8	10	4	44	
Certificate on Exit + 4 credit Bridge Course											44	

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5	III 4Cr-T: Continuous distributions 2Cr-P:Learning the chance factor using MS Excel 2Cr-P:Programming in R software		2Cr-T:Digital System Design 2Cr-P:Practicals based on Digital System Design	2Cr-T:Basic Course in Calculus 2Cr-P:Practical Course based on Minor Paper - 2	2Cr-T: Basic Telecommunication 2Cr-P:Fun with Mechanics	4Cr-T:Chemistry of life	2Cr-P:Curve fitting and fitting of regression models (Hands on training)	2Cr-P: Learning LaTeX software (VC)	2Cr-T: Enviromental Science (VEC) OR 2Cr-T: Communication Skills (Spoken English) (ACE)	CC:2Cr Yoga	22
5	IV 4Cr-T:Statistical methods (Time series, Simulation, queueing models 2Cr-P:Introduction to C language 2Cr-P:Introduction to SQL		2Cr-T:Analog System Design 2Cr-P:Practicals based on Analog System Design	2Cr-T: Matrix Theory 2Cr-P:Practical Course based on Minor Paper - 4	2Cr-T:Fiber Optic Communication 2Cr-P:Basic Optics	4Cr-T:Chemistry of Materials	2Cr-P:Introduction to Python for handling large Data		2Cr-T: Communication Skills (Written English)(ACE)	CC:2Cr Drama	22
Cumulative	28			10			12	12	14	8	84
Diploma on Exit + 4 credits of NSQF and Internship											

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5.5	V 2Cr-T:Regression Analysis 2Cr-T: Theory of Estimation 2Cr-T: Sampling Methods 4Cr-P: Practical based on Regression, Sampling methods using R software	4Cr-T:Medical Statistics OR 4Cr-T:Actuarial Statistics	2Cr-T:Digital and wireless communication systems 2Cr-P:Practical based on Communication	2Cr-T:Differential and Integral Calculus 2Cr-P: Practical Course based on Minor Paper - 6	2Cr-T:Lasers and its Applications 2Cr-P: Optoelectronics/ Photonics	2Cr-P:Laboratory Safety 2Cr-T:IPR and Chemoinformatics		2Cr-P:C programming(VC)		OJT 4Cr Internship :Data Science or Big Data. FP: 2Cr Project	22
5.5	VI 2Cr-T:Testing of hypotheses 2Cr-T:Design of Experiment 2Cr-T:Operation research 4Cr-P: Practical based on Testing of Hypotheses, DOE, Operation research using R software	4Cr-T:Introduction to Survival Analysis OR 4Cr-T:Stochastic Processes	2Cr-T:Microcontroller and Embedded Systems 2Cr-P:Interfacing and Programming the microcontroller	2Cr-T:Applied Mathematics 2Cr-P:Practical Course based on Minor Paper - 8	2Cr-T:Acoustics 2Cr-P:Radiation Physics	2Cr-T:Instrumental methods of analysis 2Cr-P: Analytical Chemistry Practical Course				OJT 4Cr Internship :Data analytics	22
Cum	48	8					12	8-10 + 6	8+4+2	8+2+4+4	120-132

Award of Degree

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6	VII 4Cr-T:Basics of Real analysis 4Cr-T: Stochastic Process 4Cr-T: Multivariate Analysis 2Cr-P:Practical based on Real Analysis, Stochastic Process, Multivariate Analysis using R Softwar	4Cr-P:Machine Learning OR 4Cr-T:Numerical Methods	2Cr T +2Cr P:RM : 4								OJT 4Cr Industrial visit and project report writing	22
6	VIII 4Cr-T:Basics of Real analysis 4Cr-T:Vectior Algebra 4Cr-T: Bayesian Analysis 2Cr-P:Practical based on Real Analysis, Vector Algebra, Multivariate Analysis using R Softwar	4Cr-P:Introducti on to SAS OR 4Cr-T:Time series and Econometrics									22	
Cumulative		76	16	22				12	8-10 + 6	8+4+2	8+2+4+8	160-176
Four Year UG Honors Degree												