

# Syllabus Progress Report of Mathematics-III

Course Name:	Mathematics-III	Course Code:	BS-M301
Teacher Name:	Dr. Jayanta Dutta	Teacher Employee Code:	7004
Department Name:	EE	Semester:	3rd
LTP Structure:	03-00-00		
Total No. of classes Allotted:	40		
Total No. of classes conducted:	11		
% of syllabus covered:	25		
Module No.	Topics Covered	Methodology Used	No. of Lectures
1	Basic Probability Theory: Classical definition and its limitations. Axiomatic definition. Some elementary deduction: i) $P(O)=0$ , ii) $0 \leq P(A) \leq 1$ , iii) $P(A')=1-P(A)$ etc. where the symbols have their usual meanings. Frequency interpretation of probability.	Chalk & Talk	3
2	Approximation in Numerical computation: Truncation and rounding errors, Fixed and floating-point arithmetic, Propagation of errors. Interpolation: Newton forward interpolation	Chalk & Talk	8
Signature of the Faculty Member		Signature of the HOD Head of the Department Department of Electrical Engineering Siliguri Institute of Technology	

# Syllabus Progress Report upto 07/08/2023

Course Name:		EE BS 301
Teacher Name:		NA
Department Name:		3RD
LTP Structure:		
Total No. of classes Allotted:		
Total No. of classes conducted:		
% of syllabus covered:		
<b>Topics Covered</b> Introduction to biology Bring out the fundamental differences between science and engineering by drawing a comparison between eye and camera, Bird flying and aircraft. Hierarchy of life forms at phenomenological level. A common thread weaves this hierarchy Classification. Discuss classification based on (a) cellularity- Unicellular or multicellular (b) ultrastructure- prokaryotes or eucaryotes Biomolecules Molecules of life. In this context discuss monomeric units and polymeric structures. Discuss about sugars, starch and cellulose. Amino acids and proteins. Nucleotides and DNA/RNA. Two carbon units and lipids Enzymes Enzymology: How to monitor enzyme catalyzed reactions. How does an enzyme catalyze reactions. Enzyme classification. Mechanism of enzyme action. Discuss at least two examples. Enzyme kinetics and kinetic parameters. Why should we know these parameters to understand biology? RNA catalysis.		
Module No.		No. of Lectures conducted
Module 1		3
Module 2		4
Module 4		4
Module 5		2
Signature of the Faculty Member 10/08/23		Signature of HOD 10/08/23
Course Code: Teacher Employee Code: Semester:		
Biology for Engineers SHREYASHI DHAR SARMA DEPARTMENT OF ENGINEERING SCIENCES AND HUMANITIES (ELECTRICAL ENGINEERING) 3-0-0-0 47L 12 L 27%		
Methodology Used		BOARD WORK WITH CHALK
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# Syllabus Progress Report up to 15/03/2024

Course Name:	Economics For Engineers	Course Code	HM_EE_601
Teacher Name:	Sohini Guha	Teacher Employee Code	
Department Name:	EE	Semester/Section	6th
LTP Structure:	3-0-0		
Total No. of classes Allotted:	30		
Total No. of classes conducted:	19		
% of syllabus covered:	40%		
Module No.	Topics Covered	Methodology Used	No. of Lectures conducted
1 (1)	Economic decision Making: Overview, Problems, Role, Decision making process. Fixed, Variable, Marginal & Average Costs, Sunk Costs, Opportunity Costs, Recurring And Nonrecurring Costs, Incremental Costs. Cash Costs v/s Book Costs, Life-Cycle Costs; Types Of Estimate	Chalk & Talk	5
1 (2)	Estimating Models - Per-Unit Model, Segmenting Model, Cost Indexes, Power-Sizing Model, Improvement & Learning Curve, Benefits. Cash Flow - Diagrams, Categories & Computation, Time Value of Money, Debt repayment	Chalk & Talk	8
2	Present Worth Analysis : End-Of-Year Convention, Viewpoint Of Economic Analysis Studies, Borrowed Money Viewpoint, Effect Of Inflation & Deflation, Taxes, Economic Criteria, Applying Present Worth Techniques, Multiple Alternatives.	Chalk & Talk	4
4	Inflation And Price Change – Definition, Effects, Causes, Price Change With Indexes, Types of Index, Composite vs Commodity Indexes, Use of Price Indexes In Engineering Economic Analysis, Cash Flows that inflate at different Rates.	Chalk & Talk	1
5	Cost Accounting	Chalk & Talk	1
Name and Signature of the Faculty Member	Sohini Guha	Name and Signature of the HOD	

Signature of the HOD  
 Signature of the Department  
 Institute of Technology