Department of Computer Application
St. Edmund's College
NAAC Accredited A
Affiliated to North Eastern Hill University
Recognized by the University Grant Commission under 2 (f) and 12 (B) of the UGC Act 1956
Awarded STAR STATUS COLLEGE (DBT, Govt. of India)

Department/HOD Email   http://sec.edu.in

SEMESTER: 4th Semester

PAPER NO: BCA-401

NAME OF PAPER: SOFTWARE ENGINEERING

THEORY

Name of the Teacher	Unit	Topics
MELVIN STAR MAJAW	I	System Analysis and Design
MELVIN STAR MAJAW	II	Introduction To Software Engineering Software life cycle models
MELVIN STAR MAJAW	III	Software project management, requirements and design
IAINEHBORLANG NONGSEIJ	IV	Function Oriented Software Design, and User Interface Design
IAINEHBORLANG NONGSEIJ	V	Testing, software reliability and maintenance

SEMESTER: 4th Semester

PAPER NO: BCA-402

NAME OF PAPER: DATA COMMUNICATION AND NETWORK

THEORY

Name of the Teacher	Unit	Topics
MELVIN STAR MAJAW	I	Introduction + Physical Layer
MELVIN STAR MAJAW	II	Data Link Layer
RAJNI KHYRIEM	III	Network Layer
RAJNI KHYRIEM	IV	Transport Layer
RAJNI KHYRIEM	V	Application Layer : WWW: Architecture, HTTP: transactions, persistent and non persistent connection, proxy server
MELVIN STAR MAJAW	V	Application Layer: DNS: Name Space, Domain Name Space, Resolution, Types of Record. TELNET, EMAIL: SMTP, POP and IMAP, Web based mail. FTP

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SEMESTER: 4th Semester

PAPER NO: BCA-403

NAME OF PAPER: VB.NET PROGRAMMING

THEORY/PRACTICAL

Name of the Teacher	Unit	Topics
SARMISTHA DEB	I	Introduction to VB.Net
SARMISTHA DEB	II	Exception handling and Library functions
S. SUNILA CHANU	II	Console Application
SARMISTHA DEB	III	Object Oriented Programming
S. SUNILA CHANU	IV	Files and ADO.Net
S. SUNILA CHANU	V	Web programming with ASP.Net

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SEMESTER: 6th Semester

PAPER NO: BCA-602 (b)

NAME OF PAPER: DATA WAREHOUSING AND DATA MINING

THEORY

Name of the Teacher	Unit	Topics
IAINEHBORLANG NONGSEIJ	I	Data Warehousing
RAJNI KHYRIEM	II	Data Mining Introduction
RAJNI KHYRIEM	III	Clustering
IAINEHBORLANG NONGSEIJ	III	Clustering
S. SUNILA CHANU	IV	Rule Mining
S. SUNILA CHANU	V	Classification and Prediction

SEMESTER: 6th Semester

PAPER NO: BCA-603

NAME OF PAPER: PROJECT

PRACTICAL

Name of the Teacher	Unit	Topics
SARMISTHA DEB		Synopsis, Analysis, Design and Implementation.
S. SUNILA CHANU		Synopsis, Analysis, Design and Implementation.
RAJNI KHYRIEM	-	Synopsis, Analysis, Design and Implementation.
MELVIN STAR MAJAW		Synopsis, Analysis, Design and Implementation.
IAINEHBORLANG NONGSEIJ		Synopsis, Analysis, Design and Implementation.

(Signature of HOD)

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SEMESTER: 3rd Semester

PAPER NO: BCA-302

NAME OF PAPER: DATABASE MANAGEMENT SYSTEM

THEORY/PRACTICAL

Name of the Teacher	Unit	Topics
MELVIN STAR MAJAW	I	Introduction to database and E-R Modelling
SARMISTHA DEB	II	Record Storage and File Organization
S. SUNILA CHANU	III	Relational Model Concepts
SARMISTHA DEB	III	Structured Query Language
S. SUNILA CHANU	IV	Functional dependency and Normal forms
S. SUNILA CHANU	V	Transaction Processing Concepts

PAPER NO: BCA-303

NAME OF PAPER: OPERATING SYSTEMS AND INTRODUCTION TO LINUX

THEORY/PRACTICAL

Name of the Teacher	Unit	Topics
IAINEHBORLANG NONGSEIJ	I	Operating Systems Overview
IAINEHBORLANG NONGSEIJ	II	Processes and Scheduling Algorithms
RAJNI KHYRIEM	III	Process Synchronization
RAJNI KHYRIEM	IV	Memory Management
IAINEHBORLANG NONGSEIJ	V	Shell Scripting using Linux

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SEMESTER: 5th Semester

PAPER NO: BCA-502

NAME OF PAPER: OBJECT ORIENTED PROGRAMMING THROUGH JAVA

THEORY/PRACTICAL

Name of the Teacher	Unit	Topics
IAINEHBORLANG NONGSEIJ	I	Introduction to Java Programming
RAJNI KHYRIEM	II	Classes, Methods and Inheritance
RAJNI KHYRIEM	III	Packages, Interface and Multithreading
IAINEHBORLANG NONGSEIJ	III	Streams, Networking and JDBC
S. SUNILA CHANU	V	Applets and Event Handling

PAPER NO: BCA-503(a)

NAME OF PAPER: INTERNET AND WEB TECHNOLOGY USING MYSQL AND PHP

THEORY/PRACTICAL

Name of the Teacher	Unit	Topics
S. SUNILA CHANU	I	HTTP, Web Servers, HTML and Javascript
SARMISTHA DEB	II	Introduction to PHP
SARMISTHA DEB	III	Object Oriented Programming with PHP
MELVIN STAR MAJAW	IV	Introduction to MySQL; MySQL and PHP
MELVIN STAR MAJAW	V	Validation and Sessions

(Signature of HOD)

Principal
(In - Charge)
St. Edmund's College
Shillong - 793003