

Syllabus Progress Report of Formal Language and Automata Theory

Course Name:	Formal Language and Automata Theory	Course Code:	PCC CS 403
Teacher Name:	Sucharita Das	Teacher Employee Code:	6005
Department Name:	Computer Science and Engineering	Semester:	4th
LTP Structure:	3L+0T		
Total No. of classes Allotted:	36		
Total No. of classes conducted:	20		
% of syllabus covered:	72%		
Module No.	Topics Covered	Methodology Used	No. of Lectures conducted
1	Introduction on the Syllabus and subject with its examples and applications. Some real-life examples.	Black Board and hand notes	1
	Symbol, Alphabet, String, Set Different Operations with examples.		1
	Deterministic finite automaton(DFA) with examples.		1
	Different examples on DFA.		1
	Non-deterministic finite (NFA) automaton. Difference between DFA and NFA.Examples.		1
	Transition diagrams and Language recognizers. Examples on some DFA.		1
	Minimization of DFA with some examples.		1
2	Finite Automata: NFA with ϵ transitions-Significance, acceptance of languages. Equivalence between NFA with and without ϵ transitions with some examples	Black Board and hand notes	1

Module No.	Topics Covered	Methodology Used	No. of Lectures conducted
2	NFA to DFA conversion with some worked out examples.	Black Board and hand notes	1
	Introduction on Machines: Moore machine and Mealy Machines. Constructions of both machines from given automata		1
	Conversion of Moore machine to Mealy Machines and Mealy machine to Moore Machines with some examples		1
	Regular Languages: Regular sets, C, identity rules, Arden's theorem. Different Example, Regular Expressions and Transition Systems		1
	Regular Expressions and Transition Systems. Find a regular expression from a given Finite Automata (FA), Different examples		1
	Construct NFA and DFA from a given regular expression with some example.		1
3	Pumping lemma of regular sets. With examples. Closure properties of regular sets. (Prove)	Black Board and hand notes	1
	Derivation trees, sentential forms. Rightmost and leftmost derivation of strings. (Concept only).		1
	Context Free Grammars, Ambiguity in context free grammars.		1

Ayaz Anand

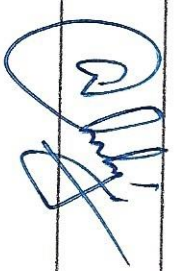
Module No.	Topics Covered	Methodology Used	No. of Lectures conducted
3	Simplification and Minimization of Context Free Grammars.	Black Board and hand notes	1
4	Context-sensitive grammars (CSG) and languages, linear bounded automata and equivalence with CSG.		1
Signature of the Faculty Member	S. Das		Signature of HOD


 Head of the Department
 Computer Science & Engineering
 Siliguri Institute of Technology

Abinash Sharma.

Syllabus Progress Report upto 07/05/2023 (set-4)



Course Name:		Computer Networks		Course Code:	PCC-CS602
Teacher Name:		Mr. Anupam Mukherjee		Teacher Employee Code:	
Department Name:		CSE		Semester/Section:	6th
LTP Structure:		3-0-0-3 (L-T-P-C)			
Total No. of classes Allotted:		47			
Total No. of classes conducted:		43			
% of syllabus covered:		92%			
Unit No.	Topics Covered	Methodology Used	No. of Lectures conducted		
4	Transport Layer: Process to Process Communication, User Datagram Protocol (UDP), Transmission Control Protocol (TCP), SCTP Congestion Control; Quality of Service, QoS improving techniques: Leaky Bucket and Token Bucket algorithm.	Chalk & Talk PPT / Video lecture analysis	6		
5	Application Layer: Domain Name Space (DNS), DDNS, TELNET, EMAIL, File Transfer Protocol (FTP)	Chalk & Talk PPT / Video lecture analysis	3		
Name and Signature of the Faculty Member		Name and Signature of the HOD			

Sourav Goswami

Seemabadeep Gula.

Syllabus Progress Report 07/05/2023 (set-4)

Course Name:	ECOMMERCE & ERP		
Teacher Name:	SATADAL CHAKRABORTY		
Department Name:	IT	Course Code:	OEC-IT802A
LTP Structure:	3L	Teacher Employee Code:	60008
Total No. of classes Allotted:	35	Semester:	8TH
Total No. of classes conducted:	32		
% of syllabus covered:	92%		
Module No.	Topics Covered	Methodology Used	No. of Lectures conducted
Unit 5 & 6	<p>Four C's : (Convergence, Collaborative Computing, Content Management & Call Center).</p> <p>Convergence : Technological Advances in Convergence - Types, Convergence and its implications, Convergence & Electronic Commerce. Collaborative Computing : Collaborative product development contract as per CAD, Simultaneous Collaboration, Security. Content Management : Definition of content, Authoring Tools & Content Management, Content - partnership, repositories, convergence, providers, Web Traffic & Traffic Management ; Content Marketing, Call Center : Definition, Need, Tasks Handled, Mode of Operation, Equipment, Strength & Weaknesses of Call Center, Customer Premises Equipment (CPE).</p>	Chalk & Talk	4
Unit 7 & 8	<p>Supply Chain Management : E - logistics, Supply Chain Portal, Supply Chain Planning Tools (SCP Tools), Supply Chain Execution (SCE), SCE - Framework, Internet's effect on Supply Chain Power.</p> <p>E - Payment Mechanism : Payment through card system, E - Cheque, E - Cash, E - Payment Threats & Protections.</p>	Chalk & Talk	3
Signature of the Faculty Member		Signature of HOD	

Asif Ahmed