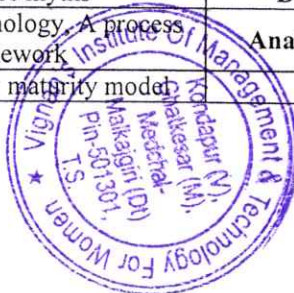


**LESSON PLAN**  
**(VMTW/ACD-II/22)**

Academic Year : 2021-2022  
 Year & Semester : II-II  
 Branch : CSE (AI&ML)  
 Section :  
 Subject Code & Name : SOFTWARE ENGINEERING  
 Name of Faculty : Dr. S. RANGA SWAMY

COURSE OUTCOMES	LEVELS
CO1: Able to understand the concepts of Software Engineering Concepts and Tools	BL 2
CO2: Ability to analyze end-user requirements into system and software requirements, using e.g. UML, and structure the requirements in a Software Requirements Document (SRD).	BL 4
CO3: Able to Identify and apply appropriate software architectures and patterns to carry out high level design of a system and be able to critically compare alternative choices.	BL 3
CO4: Able to understand testing problems and will be able to develop a simple testing report	BL 2
CO5: Able to understand Software Quality and Risk management	BL 2

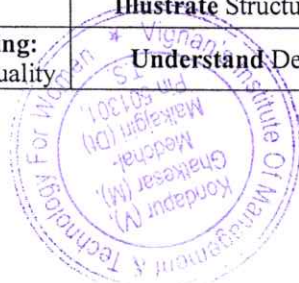
Unit No.	Topic of Syllabus to be covered	Learning Outcomes	Teaching Mode (BB/PPT/ Video/ Demo)	Hours Required		Total No. of Hours (Cumulative)	Expected date of completion (for each unit)		Review/ Remarks
				L	T		As per time table	Actual date of completion	
1	Introduction to Software Engineering-The evolving role of software	Understand role of software	BB	1		1	21/03/22	21/03/22	
	Changing nature of software	Analyzing nature of software	BB	1		2	23/03/22	23/03/22	
	software myths	Describe software myths	BB	1		3	24/03/22	24/03/22	
	A layered technology. A process framework	Analyzing process framework	PPT	1		4	26/03/22	26/03/22	
	The capability maturity model	Explain CMMI	BB	1		5	28/03/22	28/03/22	



  
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	integration (CMMI)							
	Process patterns, Process assessment,	Analyzing a Process assessment	BB	1	6	30/03/22	30/03/22	
	Personal and Team process models	Illustrate process models	BB	1	7	31/03/22	31/03/22	
	The waterfall model	Understand Models	PPT	1	8	04/04/22	04/04/22	
	Incremental process models	Illustrate process models	BB	1	9	06/04/22	06/04/22	
	Evolutionary process models	Understand Evolutionary	BB	1	10	07/04/22	07/04/22	
	Unified process	Understand Unified process	BB	1	11	09/04/22	09/04/22	
2	<b>Unit-2-Software Requirements:</b> Functional requirements, Non Functional requirements	Understand Functional & Non Functional requirements	BB	1	12	11/04/22	11/04/22	
	User requirements, System requirements, Interface specification,	Illustrate User requirements	BB	1	13	13/04/22	13/04/22	
	Software Requirements Document	Illustrate SRS Document	PPT	1	14	16/04/22	16/04/22	
	<b>Requirements engineering process:</b> Feasibility studies	Understand Feasibility studies	BB	1	15	18/04/22	18/04/22	
	Requirements Elicitation and Analysis	Explain Requirements Elicitation	BB	1	16	20/04/22	20/04/22	
	Requirements Validation, Requirements Management.	Understand Requirements Validation	BB	1	17	21/04/22	21/04/22	
	<b>System models:</b> Context models	Apply System models	PPT	1	18	23/04/22	23/04/22	
	<b>Behavioral models</b>	Analyzing Behavioral models	BB	1	19	25/04/22	25/04/22	
	Data Models	Understand Data Models	BB	1	20	27/04/22	27/04/22	
	Object Models	Understand Object Models	BB	1	21	28/04/22	28/04/22	
Structured Methods	Illustrate Structured Methods	BB	1	22	30/04/22	30/04/22		
	<b>UNIT-3-Design Engineering:</b> Design process and design quality	Understand Design process	BB	1	23	02/05/22	02/05/22	



  
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3	Design Concepts	<b>Illustrate</b> Design Concepts	BB	1		24	04/05/22	04/05/22	
	The Design Model	<b>Illustrate</b> The Design Model	BB	1		25	05/05/22	05/05/22	
	<b>Creating an architectural design: Software Architecture</b>	<b>Understand</b> Software Architecture	BB	1		26	07/05/22	07/05/22	
	Data Design	<b>Illustrate</b> Data Design	BB	1		27	23/05/22	23/05/22	
	Architectural Styles and Patterns	<b>Understand</b> Architectural Styles	BB	1		29	25/05/22	25/05/22	
	Architectural Design	<b>Applications</b> of Architectural Design	BB	1		30	26/05/22	26/05/22	
	Conceptual Model of UML	<b>Understand</b> UML	PPT	1		31	28/05/22	28/05/22	
	Basic Structural Modeling	<b>Understand</b> Structural Modeling	PPT	1		32	06/06/22	06/06/22	
	Class Diagrams	<b>Understand</b> Class Diagrams	BB	1		33	08/06/22	08/06/22	
	Sequence Diagrams	<b>Define</b> Sequence Diagrams	BB	1		34	09/06/22	09/06/22	
	Collaboration Diagrams	<b>Understand</b> Collaboration Diagrams	BB	1		35	11/06/22	11/06/22	
	Use case Diagrams	<b>Describe</b> Use case Diagrams	BB	1		36	13/06/22	13/06/22	
Component Diagrams.	<b>Discuss</b> Component Diagrams.	BB	1		37	15/06/22	15/06/22		
4	<b>Testing Strategies:</b> A strategic approach to software testing	<b>Understand</b> Testing Strategies	BB	1		38	16/06/22	16/06/22	
	Test strategies for conventional software	<b>Illustrate</b> conventional software	PPT	1		39	18/06/22	18/06/22	
	Test strategies for conventional software	<b>Understand</b> conventional software	BB	1		40	20/06/22	20/06/22	
	Black-box	<b>Understand</b> Black-box testing	BB	1		41	22/06/22	22/06/22	
	Black-box testing	<b>Evaluate</b> Black-box testing	BB	1		42	23/06/22	23/06/22	
	White-box testing	<b>Explain</b> White-box testing	BB	1		43	25/06/22	25/06/22	



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	White-box testing	<b>Understand</b> White-box testing	BB	1		44	27/06/22	27/06/22	
	Validation Testing, System Testing,	<b>Understand</b> System Testing	BB	1		45	28/06/22	28/06/22	
	The art of debugging	<b>Define</b> debugging	BB	1		46	29/06/22	29/06/22	
	<b>Product metrics:</b> Software quality	<b>Understand</b> Software quality	PPT		1	47	30/06/22	30/06/22	
	Metrics for Analysis Model	<b>Evaluate</b> Analysis Model	BB	1		48	01/07/22	01/07/22	
	Metrics for Design Model	<b>Create</b> Design Model	BB	1		49	02/07/22	02/07/22	
	Metrics for Source Code	<b>Explain</b> Source Code	BB	1		50	04/07/22	04/07/22	
	Metrics for Testing, Metrics for Maintenance	<b>Evaluate</b> Testing, Maintenance	BB	1		51	06/07/22	06/07/22	
5	<b>Metrics for Process and Products:</b> Software measurement	<b>Analyze</b> Software measurement	BB		1	52	07/07/22	07/07/22	
	Metrics for Software Quality	<b>Describe</b> Software Quality	BB	1		53	08/07/22	08/07/22	
	<b>Risk management:</b> Reactive Vs Proactive Risk strategies	<b>Understand</b> Risk strategies	PPT	1		54	09/07/22	09/07/22	
	Software Risks,	<b>Explain</b> Software Risks	BB	1		55	11/07/22	11/07/22	
	Risk Identification, Risk Projection	<b>Evaluate</b> Risk Projection	BB	1		56	12/07/22	12/07/22	
	Risk Refinement, RMMM	<b>Understand</b> RMMM	BB	1		57	13/07/22	13/07/22	
	RMMM plan, Quality concepts	<b>Understand</b> Quality concepts	BB	1		58	14/07/22	14/07/22	
	SQA	<b>Explain</b> SQA	PPT	1		59	15/07/22	15/07/22	
	Software Reviews	<b>Apply</b> Software Reviews	PPT	1		60	16/07/22	16/07/22	
	Formal Technical Reviews	<b>Understand</b> Technical Reviews	PPT	1		61	18/07/22	18/07/22	



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Formal Technical Reviews	<b>Understand</b> Technical Reviews	PPT	1		62	20/07/22	20/07/22	
Statistical SQA,	<b>Explain</b> Statistical SQA	BB	1		63	21/07/22	21/07/22	
Statistical SQA,	<b>Explain</b> Statistical SQA	BB	1		64	23/07/22	23/07/22	
Software Reliability	<b>Explain</b> Software Reliability	BB	1		65	25/07/22	25/07/22	
Software Reliability	<b>Explain</b> Software Reliability	BB	1		66	27/07/22	27/07/22	
The ISO 9000 quality standards	<b>Evaluate</b> ISO 9000	BB	1		67	28/07/22	28/07/22	
The ISO 9000 quality standards	<b>Evaluate</b> ISO 9000	BB	1		68	30/07/22	30/07/22	

Teaching Mode- BB: Black Board

PPT: Power Point Presentation

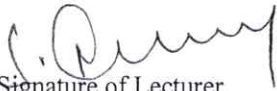
Video: Video Lectures


Demo: Demonstration

L-Lecture

T-Tutorial

P-Practical

  
Signature of Lecturer  
Date: 21.03.22

  
Signature of HOD  
Date: 21.03.22  
Head of the Department

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**LESSON PLAN**  
**(VMTW/ACD-I/21)**

Academic Year : 2021-2022  
 Year & Semester : III-I  
 Branch : IT  
 Section : -  
 Subject Code & Name : FORMAL LANGUAGES AND AUTOMATA THEORY  
 Name of Faculty : K.HELINE

COURSE OUTCOMES	LEVELS
CO1:Able to understand the concept of abstract machines and their power to recognize the Languages.	BL 2
CO2:Able to employ finite state machines for modeling and solving computing problems	BL 3
CO3:Able to design context free grammars for formal languages.	BL 6
CO4:Able to distinguish between decidability and undecidability.	BL 4
CO5: Able to gain proficiency with mathematical tools and formal methods.	BL 5

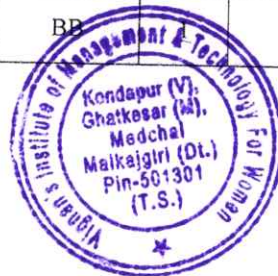
Unit No.	Topic of Syllabus to be covered	Learning Outcomes	Teaching Mode (BB/PPT / Video/ Demo)	Hours Required		Total No. of Hours (Cumulative)	Expected date of completion (for each unit)		Review/ Remarks
				L	T		As per time table	Actual date of completion	
1	Introduction to Finite Automata	Understand Finite Automata	BB	1		1	13-9-2021	14/09/2021	
	Structural Representations	Analyzing Structural Representations	BB	1		2	14-9-2021	14/09/2021	
	Automata and Complexity	Describe Automata and Complexity	BB	1		3	15-9-2021	15/09/2021	
	Central Concepts of	Analyzing concepts	BB	1		4	16-9-2021	17/09/2021	



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	Automata Theory – Alphabets, Strings, Languages, Problems	problems						
	Nondeterministic Finite Automata	<b>Explain</b> NFA	BB	1	5	17-9-2021	18/09/2021	
	an application: Text Search	<b>Analyzing</b> applications	BB	1	6	18-9-2021	20/09/2021	
	Finite Automata with E-Transitions	<b>Illustrate</b> FA with $\epsilon$	BB	1	7	20-9-2021	21/09/2021	
	Definition of DFA	<b>Understand</b> Concepts	BB	1	8	21-9-2021	22/09/2021	
	Conversions	<b>Illustrate</b> FA with $\epsilon$	BB	1	9	23-9-2021	23/09/2021	
	Moore machines	<b>Understand</b> machines	BB	1	10	25-9-2021	25/09/2021	
	Melay machines	<b>Understand</b> machines	BB	1	11	25-9-2021	25/09/2021	
2	Regular Expressions	<b>Understand</b> Regular languages	BB	1	12	27-9-2021	28/09/2021	
	Finite Automata and RE	<b>Illustrate</b> Constructing Finite Automata for given RE	BB	1	13	28-9-2021	29/09/2021	
	Applications of RE	<b>Illustrate</b> Regular Expressions	BB	1	14	30-9-2021	30/09/2021	
	Algebraic Laws for RE	<b>Understand</b> Algebraic Laws	BB	1	15	30-9-2021	30/09/2021	
	Conversion of FA to RE	<b>Explain</b> Conversion	BB	1	16	01-10-2021	04/10/2021	
	Properties of RL	<b>Understand</b> properties	BB	1	17	04-10-2021	05/10/2021	
	Pumping Lemma	<b>Apply</b> Pumping Lemma	BB		18	05-10-2021	06/10/2021	



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	Applications of the Pumping Lemma	<b>Analyzing</b> Pumping Lemma	BB	1	19	07-10-2021	8-10-2021	
	Closure Properties of Regular Languages	<b>Understand</b> Closure Properties	BB	1	20	07-10-2021	8-10-2021	
	Decision Properties of Regular Languages	<b>Understand</b> Decision Properties	BB	1	21	09-10-2021	9-10-2021	
	Equivalence and Minimization of Automata	<b>Illustrate</b> Equivalence and Minimization of Automata	BB	1	22	09-10-2021	9-10-2021	Dussehra Holiday
3	Definition of Context-Free Grammar	<b>Understand</b> Context free grammar	BB	1	23	18-10-2021	19-10-21	Dussehra Holiday
	Derivations Using a Grammar	<b>Illustrate</b> Derivation of Strings	BB	1	24	19-10-2021	21-10-21	
	Leftmost and Rightmost Derivations	<b>Illustrate</b> Derivation of Strings	BB	1	25	21-10-2021	22-10-2021	
	Language of a Grammar	<b>Understand</b> Language of a Grammar	BB	1	26	23-10-2021	25-10-2021	
	Sentential Forms	<b>Illustrate</b> Sentential Forms	BB	1	27	25-10-2021	26-10-2021	
	Parse Tress	<b>Understand</b> Parse Tress	BB	1	28	26-10-2021	27-10-2021	
	Applications of CFG	<b>Applications</b> of CFG	BB	1	29	28-10-2021	29-10-2021	
	Ambiguity in Grammars and Languages	<b>Understand</b> Ambiguity in CFG	BB	1	30	30-10-2021	30-10-2021	
	Definition of the Pushdown Automaton	<b>Understand</b> Pushdown Automaton	BB	1	31	01-11-2021	02-11-2021	
	The Languages of a PDA	<b>Understand</b> PDA	BB	1	32	02-11-2021	02-11-2021	



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	Equivalence of PDA's and CFG's	<b>Define</b> Equivalences	BB	1	33	06-11-2021	08-11-2021	Dilwali
	Deterministic Pushdown Automata	<b>Understand</b> Deterministic Pushdown Automata	BB	1	34	15-11-2021	16-11-2021	Leave
	From CFG to PDA	<b>Describe</b> conversions	BB	1	35	16-11-2021	17-11-2021	
	From PDA to CFG	<b>Discuss</b> PDA to CFG	BB	1	36	18-11-2021	20-11-2021	Gundamank Jayanti
4	Normal Forms for Context-Free Grammars	<b>Understand</b> Normal Forms for Context-Free Grammars	BB	1	37	20-11-2021	22-11-2021	
	Eliminating useless symbols	<b>Illustrate</b> useless symbols	BB	1	38	22-11-2021	23-11-2021	
	Eliminating $\epsilon$ -Productions	<b>Understand</b> Eliminating $\epsilon$ -Productions	BB	1	39	23-11-2021	24-11-2021	
	Chomsky Normal form	<b>Understand</b> CNF	BB	1	40	25-11-2021	25-11-2021	
	Gribech Normal form	<b>Evaluate</b> GNF	BB	1	41	27-11-2021	29-11-2021	leave
	Pumping Lemma for Context-Free Languages	<b>Explain</b> Pumping Lemma	BB	1	42	29-11-2021	30-11-2021	
	Closure properties of CFL's	<b>Understand</b> properties	BB	1	43	30-11-2021	1-12-2021	
	Decision Properties of CFL's	<b>Understand</b> properties	BB	1	44	02-12-2021	03-12-2021	
	Introduction to Turing Machines	<b>Define</b> Turing Machines	BB	1	45	02-12-2021	03-12-2021	
	The Turing Machine	<b>Understand</b> Turing Machines	BB	1	46	04-12-2021	06-12-2021	
	Formal Description	<b>Evaluate</b> Formal Description	BB		47	04-12-2021	06-12-2021	



  
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	Instantaneous description	<b>Create</b> Instantaneous description	BB	1	48	06-12-2021	07-12-2021	
	The language of a Turing machine	<b>Explain</b> Turing Machines	BB	1	49	07-12-2021	08-12-2021	
	Turing Machines and Computers	<b>Evaluate</b> Turing Machines and Computers	BB	1	50	09-12-2021	10-12-2021	leave
5	Types of Turing machine	<b>Analyze</b> Types	BB	1	51	11-12-2021	13-12-2021	
	Turing machines and halting	<b>Describe</b> TM	BB	1	52	13-12-2021	15-12-2021	
	Undecidability	<b>Understand</b> Undecidability	BB	1	53	14-12-2021	15-12-2021	
	A Language that is Not Recursively Enumerable	<b>Explain</b> A Language is Not Recursively Enumerable	BB	1	54	16-12-2021	17-12-2021	
	An Undecidable Problems about TM	<b>Evaluate</b> An Undecidable Problem That is RE	BB	1	55	16-12-2021	17-12-2021	
	Recursive languages	<b>Understand</b> RL	BB	1	56	18-12-2021	20-12-2021	
	Properties of recursive languages	<b>Understand</b> properties RL	BB	1	57	18-12-2021	20-12-2021	
	Post's Correspondence Problem	<b>Apply</b> Turing Machines	BB	1	58	20-12-2021	21-12-2021	
	Modified Post Correspondence problem	<b>Understand</b> Post's Correspondence Problem	BB	1	59	21-12-2021	22-12-2021	
	Other Undecidable Problems	<b>Explain</b> Other Undecidable Problems	BB	1	60	23-12-2021	23-12-2021	
	Counter machines	<b>Evaluate</b> Counter machines	BB	1	61	27-12-2021	27-12-2021	chemistry



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	Model Question Papers Discussion		1			28-12-2021	29/12/2021	
	Question Bank Discussion		1			03-01-2021	03/01/2021	
	Important Questions Discussion		1			06-01-2021	06/01/2021	

Teaching Mode- BB: Black Board    PPT: Power Point Presentation    Video: Video Lectures    Demo: Demonstration

L-Lecture                                      T-Tutorial                                      P-Practical

*Heleini*  
 Signature of Lecturer  
 Date: 19/12/21

*[Signature]*  
 Signature of HOD  
 Date: of the Department  
 Information Technology

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 (T.S.)



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**LESSON PLAN**  
**(VMTW/ACD-I/21)**

Academic Year : 2021-2022  
 Year & Semester : 3<sup>rd</sup> year, 1<sup>st</sup> Semester  
 Branch : CSE  
 Section : B  
 Subject Code & Name : CS503PC & Computer Networks  
 Name of Faculty : Sunil

COURSE OUTCOMES	LEVELS
CO1: Interpret the basics of Computer Networks and various protocols	BL 2
CO2: Generalize functionalities and services of each layer of OSI model.	BL 2
CO3: Explains the concept of data framing and error control mechanisms	BL 2
CO4: Compares Different routing and Transport protocols	BL 5
CO5: illustrate with world wide web concept	BL 3

Unit No.	Topic of Syllabus to be covered	Learning Outcomes	Teaching Mode (BB/PPT/ Video/ Demo)	Hours Required		Total No. of Hours (Cumulative)	Expected date of completion (for each unit) By HOD		Review/ Remarks (By HOD)
				L	T		As per timetable	Actual date of completion	
I	Introduction to Computer Networks	Understand Networks and their components	BB	1		1	06-09-2021	07-09-2021	
	Network hardware	Learn about Basic Hardware Components	BB	1		2	07-09-2021	08-09-2021	
	Network software	Learn about Basic Software's in networks	BB	1		3	08-09-2021	13-09-2021	
	OSI	Model the network using a layered architecture	BB	1		4	13-09-2021	14-09-2021	



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		elementary protocols						
	Medium Access sub layer:	Learn about Medium Access sub layer	BB	1		23	22-10-2021	25-10-2021
	The channel allocation problem	<b>Implementation</b> of channel allocation	BB	1		24	25-10-2021	26-10-2021
	Allocation Problem	<b>Implementation</b> of channel allocation problem	BB	1		25	26-10-2021	27-10-2021
	Multiple access protocols:	<b>Explanation</b> Multiple access protocols	BB	1		26	27-10-2021	29-10-2021
	ALOHA,	Learn about Various protocols	BB	1		27	29-10-2021	01-11-2021
	Carrier sense multiple access protocols	<b>Explanation</b> CSMA protocols	BB	1		28	01-11-2021	02-11-2021
	collision free protocols	Learn about Various protocols	BB	1		29	02-11-2021	03-11-2021
	Wireless LANs,	Explain about Wireless LANs	BB	1		30	03-11-2021	05-11-2021
	Data link layer switching	Describe Switching Techniques	BB	1		31	05-11-2021	15-11-2021
	switching	Describe Switching	BB	1		32	15-11-2021	16-11-2021
III	<b>Network Layer: Introduction</b>	Introduction about network layer	BB	1		33	16-11-2021	17-11-2021
	Design issues	Explain Design issues	BB	1		34	17-11-2021	22-11-2021
	Routing algorithms	Algorithm implementation	BB	1		35	22-11-2021	23-11-2021
	shortest path routing	Analyzing shortest path algorithm	BB	1		36	23-11-2021	24-11-2021
	Routing Problems	Problem Implementation	BB	1		37	24-11-2021	25-11-2021
	Broadcast,	Learn about Broad Cost routing	BB	1		38	25-11-2021	26-11-2021
	Multicast	Learn about Multicast routing	BB	1		39	26-11-2021	29-11-2021
	distance vector routing	Learn about the Vector routing protocols	BB	1		40	29-11-2021	30-11-2021
	Congestion Control Algorithms	Algorithm implementation	BB	1		41	30-11-2021	01-12-2021



  
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	Streaming audio and video	How streaming audio and video	BB	1		61	01-01-2022	01-01-2022	
	Revision		BB	1			03-01-2022	03-01-2022	
	Revision		BB	1			04-01-2022	04-01-2022	
	Model Question Papers Discussion		BB	1			05-01-2022	05-01-2022	
	Question Bank Discussion		BB	1			07-01-2022	07-01-2022	
	Important Questions Discussion		BB	1			08-01-2021	08-01-2021	

Teaching Mode- BB: Black Board

PPT: Power Point Presentation

Video: Video Lectures

Demo: Demonstration

L-Lecture

T-Tutorial

P-Practical

Signature of Lecturer

Date:

Signature of HOD

Date: The Department

Computer Science and Engineering

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**LESSON PLAN**  
**(VMTW/ACD-I/21)**

Academic Year : 2021-2022  
 Year & Semester : 3<sup>rd</sup> year, 1<sup>st</sup> Semester  
 Branch : CSE  
 Section : A  
 Subject Code & Name : CS503PC & Computer Networks  
 Name of Faculty : Sunil

COURSE OUTCOMES	LEVELS
CO1: Interpret the basics of Computer Networks and various protocols	BL 2
CO2: Generalize functionalities and services of each layer of OSI model.	BL 2
CO3: Explains the concept of data framing and error control mechanisms	BL 2
CO4: Compares Different routing and Transport protocols	BL 5
CO5: illustrate with world wide web concept	BL 3

Unit No.	Topic of Syllabus to be covered	Learning Outcomes	Teaching Mode (BB/PPT/ Video/ Demo)	Hours Required		Total No. of Hours (Cumulative)	Expected date of completion (for each unit) By HOD		Review/ Remarks (By HOD)
				L	T		As per timetable	Actual date of completion	
I	Introduction to Computer Networks	Understand Networks and their components	BB	1		1	06-09-2021	06-09-2021	
	Network hardware	Learn about Basic Hardware Components	BB	1		2	07-09-2021	06-09-2021	
	Network software	Learn about Basic Software's in networks	BB	1		3	08-09-2021	13-09-2021	



  
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	Repeat	elementary protocols						
	Example data link protocols	<b>Understanding</b> the concept of elementary protocols	BB	1		22	20-10-2021	22-10-2021
	Medium Access sub layer:	Learn about Medium Access sub layer	BB	1		23	22-10-2021	25-10-2021
	The channel allocation problem	<b>Implementation</b> of channel allocation	BB	1		24	25-10-2021	26-10-2021
	Allocation Problem	<b>Implementation</b> of channel allocation problem	BB	1		25	26-10-2021	27-10-2021
	Multiple access protocols:	<b>Explanation</b> Multiple access protocols	BB	1		26	27-10-2021	29-10-2021
	ALOHA,	Learn about Various protocols	BB	1		27	29-10-2021	01-11-2021
	Carrier sense multiple access protocols	<b>Explanation</b> CSMA protocols	BB	1		28	01-11-2021	02-11-2021
	collision free protocols	Learn about Various protocols	BB	1		29	02-11-2021	03-11-2021
	Wireless LANs,	Explain about Wireless LANs	BB	1		30	03-11-2021	05-11-2021
	Data link layer switching	Describe Switching Techniques	BB	1		31	05-11-2021	15-11-2021
	switching	Describe Switching	BB	1		32	15-11-2021	16-11-2021
III	<b>Network Layer: Introduction</b>	Introduction about network layer	BB	1		33	16-11-2021	17-11-2021
	Design issues	Explain Design issues	BB	1		34	17-11-2021	22-11-2021
	Routing algorithms	Algorithm implementation	BB	1		35	22-11-2021	23-11-2021
	shortest path routing	Analyzing shortest path algorithm	BB	1		36	23-11-2021	24-11-2021
	Routing Problems	Problem Implementation	BB	1		37	24-11-2021	25-11-2021
	Broadcast,	Learn about Broad Cost routing	BB	1		38	25-11-2021	26-11-2021
	Multicast	Learn about Multicast routing	BB	1		39	26-11-2021	29-11-2021
	distance vector routing	Learn about the Vector routing	BB	1		40	29-11-2021	30-11-2021

Syllabus Not covered as per plan



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	HTTP	Working of HTTP	BB	1		60	31-12-2021	31-12-2021	
	Streaming audio and video	How streaming audio and video	BB	1		61	01-01-2022	01-01-2022	
		Revision	BB	1			03-01-2022	03-01-2022	
		Revision	BB	1			04-01-2022	04-01-2022	
		Model Question Papers Discussion	BB	1			05-01-2022	05-01-2022	
		Question Bank Discussion	BB	1			07-01-2022	07-01-2022	
		Important Questions Discussion	BB	1			08-01-2021	08-01-2021	

Teaching Mode- BB: Black Board

PPT: Power Point Presentation

Video: Video Lectures

Demo: Demonstration

L-Lecture

T-Tutorial

P-Practical

Signature of Lecturer  
Date:



Signature of HOD

Date:





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**LESSON PLAN**  
**(VMTW/ACD-I/21)**

Academic Year : 2021-2022  
 Year & Semester : 3<sup>rd</sup> year, 1<sup>st</sup> Semester  
 Branch : CSE  
 Section : C  
 Subject Code & Name : CS503PC & Computer Networks  
 Name of Faculty : Dr.Basavaraj Chunchure

**COURSE OUTCOMES**

	LEVELS
CO1: Interpret the basics of Computer Networks and various protocols	BL 2
CO2: Generalize functionalities and services of each layer of OSI model.	BL 2
CO3: Explains the concept of data framing and error control mechanisms	BL 2
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Unit No.	Topic of Syllabus to be covered	Learning Outcomes	Teaching Mode (BB/PPT/Video/Demo)	Hours Required		Total No. of Hours (Cumulative)	Expected date of completion (for each unit) By HOD		Review/Remarks (By HOD)
				L	T		As per timetable	Actual date of completion	
I	Introduction to Computer Networks	Understand Networks concept	BB	1		1			
	Network hardware	Learn about Basic Hardware Components	BB	1		2	06-09-2021	07-09-2021	
	Network software	Learn about Basic Software's in networks	BB	1		3	07-09-2021	08-09-2021	
							08-09-2021	13-09-2021	



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	A protocol using Go-Back-N	<b>Understanding</b> the concept of elementary protocols	BB	1	20	18-10-2021	19-10-2021
	A protocol using Selective Repeat	<b>Understanding</b> the concept of elementary protocols	BB	1	21	19-10-2021	20-10-2021
	Example data link protocols	<b>Understanding</b> the concept of elementary protocols	BB	1	22	20-10-2021	22-10-2021
	Medium Access sub layer:	Learn about Medium Access sub layer	BB	1	23	22-10-2021	25-10-2021
	The channel allocation problem	<b>Implementation</b> of channel allocation	BB	1	24	25-10-2021	26-10-2021
	Allocation Problem	<b>Implementation</b> of channel allocation problem	BB	1	25	26-10-2021	27-10-2021
	Multiple access protocols:	<b>Explanation</b> Multiple access protocols	BB	1	26	27-10-2021	29-10-2021
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	collision free protocols	Learn about Various protocols	BB	1	29	02-11-2021	03-11-2021
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	Data link layer switching	Describe Switching Techniques	BB	1	31	05-11-2021	15-11-2021
	switching	Describe Switching	BB	1	32	15-11-2021	16-11-2021
<b>III</b>	<b>Network Layer: Introduction</b>	Introduction about network layer	BB	1	33	16-11-2021	17-11-2021
	Design issues	Explain Design issues	BB	1	34	17-11-2021	22-11-2021
	Routing algorithms:	Algorithm implementation	BB	1	35	22-11-2021	23-11-2021
	shortest path routing	Analyzing shortest path algorithm	BB	1	36	23-11-2021	24-11-2021
	Routing Problems	Problem Implimentation	BB	1	37	24-11-2021	25-11-2021



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SNMP Protocols	Understanding of SNMP Protocols	BB	1		55	23-12-2021	27-12-2021	
Electronic Mail	Explain the working of Email	BB	1		56	27-12-2021	28-12-2021	
Types of Electronic Mail	<b>Understand</b> types of emails				57	28-12-2021	29-12-2021	
WWW,HTTP,AV	Working of www, CGI,	BB	1		58	29-12-2021	29-12-2021	
Audio and video streaming	How streaming audio and video				59	29-12-2021	31-12-2021	
Revision		BB	1			04-01-2022	01-01-2022	
Model Question Papers Discussion		BB	1			05-01-2022	03-01-2022	
Question Bank Discussion		BB	1			07-01-2022	07-01-2022	
Important Questions Discussion		BB	1			08-01-2022	08-01-2022	

Teaching Mode- BB: Black Board

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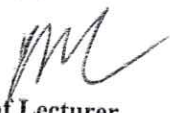
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Signature of Lecturer  
Date:



Signature of HOD

Date:

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