



SRM TRP Engineering College, Trichy
Department of Computer Science and Engineering



List of Innovations by the Faculty in Teaching and Learning



List of Innovations by the Faculty in Teaching and Learning

S.No	List of Innovations
1	Technical Charts
2	Self-made Video Lectures
3	NPTEL Videos
4	Drill and Practice
5	Peer to Peer Learning
5	Flipped Class Room
6	Role Play
7	Collaborative learning
8	Mind Mapping
9	Demonstrative Learning



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List of Charts

S.No.	Type	Reference No.	Description	Course Code / Name	Name of the faculty	COs
1.	C	SRMTRPEC/CS/C001	Project Life Cycle	Software Project Management	Mr.M.Jaiganesh	CO1
2.	C	SRMTRPEC/CS/C002	Expert System Architecture	Artificial Intelligence	Mr.P.Vijayaragavan	CO3
3.	C	SRMTRPEC/CS/C003	TCP Header Format	Computer Networks	Mr. T.Vigneshwaran	CO3
4.	C	SRMTRPEC/CS/C004	OLAP	Data warehousing and Mining	Ms.S.Sabeetha Saraswathi	CO4
5.	C	SRMTRPEC/CS/C005	Interaction Design Pattern	Human Computer Interaction	Mr.P.Vijayaragavan	CO1
6.	C	SRMTRPEC/CS/C006	Compilation Process	Programming in C	Ms.S.Devapriya	CO1
7.	C	SRMTRPEC/CS/C007	OSI Layer	Computer Networks	Mr. T.Vigneshwaran	CO1
8.	C	SRMTRPEC/CS/C008	Travelling Sales Problem/Kruskal	Design and Analysis of	Ms.R.Sathya	CO3



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S.No.	Type	Reference No.	Description	Course Code / Name	Name of the faculty	COs
			Algorithm	Algorithms		
9.	C	SRMTRPEC/CS/C009	Multicore Processor	Multicore Architecture	Ms.R.Sathya	CO1
10.	C	SRMTRPEC/CS/C010	Operating System Architecture	Operating Systems	Mr.V.Vijey Nathan	CO1
11.	C	SRMTRPEC/CS/C011	Overview of Distributed System	Distributed Systems	Mr.M.Jaiganesh	CO1
12.	C	SRMTRPEC/CS/C012	OOP Concepts	Objected Oriented Programming	Mr.G.Parthasarathy	CO1
13.	C	SRMTRPEC/CS/C013	GPRS Architecture	Mobile Computing	Mr.T.Vigneshwaran	CO3
14.	C	SRMTRPEC/CS/C014	Software Engineering Life Cycle	Software Engineering	Mr.P.Vijayaragavan	CO1



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List of Self Made Videos

The following videos are available under the youtube channel

<https://youtube.com/channel/UCdcYtWGbM6L6bktigl1LXw>

S.No.	Type	Reference No.	Description of the Video	Course Code / Name	Name of the faculty	COs
1.	V	SRMTRPEC/CS/V001	Mathematical Induction	CS6503 /Theory of Computation	Ms.SK.Karthika	CO1
2.	V	SRMTRPEC/CS/V002	Epsilon NFA	Compiler Design	Ms.A.Mary Jansi Rani	CO1
3.	V	SRMTRPEC/CS/V003	Transactions	DBMS	Ms.R.Sathya	CO3
4.	V	SRMTRPEC/CS/V004	JSP	Internet Programming	Mr.G.Parthasarathy	CO3
5.	V	SRMTRPEC/CS/V005	Web Service	Grid and Cloud Computing	Ms.S.Sabeetha Saraswathi	CO2
6.	V	SRMTRPEC/CS/V006	Line Clipping	Computer Graphics	Ms.P.Sudha	CO2



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S.No.	Type	Reference No.	Description of the Video	Course Code / Name	Name of the faculty	COs
7.	V	SRMTRPEC/CS/V007	Inheritance	Object Oriented Programming	Ms.T.Suganya	CO2
8.	V	SRMTRPEC/CS/V008	Substitution Cipher	CNS	Mr.M.Jaiganesh	CO1
9.	V	SRMTRPEC/CS/V009	Red Black Tree	AI	Ms.A.Mary Jansi Rani	CO1
10.	V	SRMTRPEC/CS/V010	Sequential Multiplication Algorithms	Computer Architecture	Ms.S.Gomathi	CO2
11.	V	SRMTRPEC/CS/V011	Difference between Information Retrieval and Web Search	Information Retrieval Techniques	Mr.G.Parthasarathy	CO1
12.	V	SRMTRPEC/CS/V012	Difference between HTML,DHTML &XML	Internet Programming	Ms.S.Deva priya	CO1
13.	V	SRMTRPEC/CS/V013	Association rules mining	Data Ware housing and Data Mining	Ms.S.Sabeetha Saraswathi	CO3
14.	V	SRMTRPEC/CS/V014	Apriori Algorithm	Data Ware housing and	Ms.S.Sabeetha Saraswathi	CO2



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S.No.	Type	Reference No.	Description of the Video	Course Code / Name	Name of the faculty	COs
				Data Mining		
15.	V	SRMTRPEC/CS/V015	Programmming Paradigm	Programmming in C	Dr. GN. Balaji	CO1
16.	V	SRMTRPEC/CS/V016	Function of OS	Operating System	Mr.V.Vijey Nathan	CO1
17.	V	SRMTRPEC/CS/V017	Intelligent Agent	Artificial Intelligence	Mr.T.Vigneshwaran	CO2
18.	V	SRMTRPEC/CS/V018	Introduction to AI	Artificial Intelligence	Mr.T.Vigneshwaran	CO1
19.	V	SRMTRPEC/CS/V019	Java Server Pages	Internet Programming	Ms.S.Devapriya	CO3



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List of NPTEL Videos

S.No.	Reference No.	Description of the Video	Institute
1.	SRMTRPEC/CS/M001	C Programming	IIT Madras
2.	SRMTRPEC/CS/M002	Java Programming	IIT Madras
3.	SRMTRPEC/CS/M003	Python Programming	IIT Madras
4.	SRMTRPEC/CS/M004	Theory of Computation	IIT Madras
5.	SRMTRPEC/CS/M005	Big Data	IIT Madras
6.	SRMTRPEC/CS/M006	Artificial Intelligence	IIT Kharagpur
7.	SRMTRPEC/CS/M007	Artificial Intelligence	IIT Kharagpur
8.	SRMTRPEC/CS/M008	Compiler Design	IISc, Bangalore



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S.No.	Reference No.	Description of the Video	Institute
9.	SRMTRPEC/CS/M009	Computer Architecture	IIT,Delhi
10.	SRMTRPEC/CS/M010	Computer Graphics	IIT Madras
11.	SRMTRPEC/CS/M011	Computer Networks	IIT Kharagpur
12.	SRMTRPEC/CS/M012	Computer Organization	IIT Madras
13.	SRMTRPEC/CS/M013	Database Management System	IIT Madras
14.	SRMTRPEC/CS/M014	Data Communications	IIT Kharagpur
15.	SRMTRPEC/CS/M015	Data Structure Algorithms	IIT Delhi
16.	SRMTRPEC/CS/M016	Design and Analysis of Algorithms	IIT Bombay
17.	SRMTRPEC/CS/M017	Discrete Mathematical Structures	IIT Madras



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S.No.	Reference No.	Description of the Video	Institute
18.	SRMTRPEC/CS/M018	Electronic Design Automation	IIT Kharagpur
19.	SRMTRPEC/CS/M019	Internet Technology	IIT Kharagpur
20.	SRMTRPEC/CS/M020	Introduction to Computer Graphics	IIT Delhi
21.	SRMTRPEC/CS/M021	Introduction to Problem Solving and Programming	IIT Kanpur
22.	SRMTRPEC/CS/M022	Programming Languages	IIT Delhi
23.	SRMTRPEC/CS/M023	Programming and Data Structures	IIT Kharagpur
24.	SRMTRPEC/CS/M024	Software Engineering	IIT Bombay
25.	SRMTRPEC/CS/M025	System Analysis and Design	IISc,Bangalore



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List of Drill and Practice

S.No.	Type	Reference No.	Description	Course Code / Name	Name of the faculty	COs
1.	DP	SRMTRPEC/CS/C001	Compilation Process	Programming in C	Ms.S.Devapriya	CO1



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List of Peer to Peer Learning

S.No.	Type	Reference No.	Description	Course Code / Name	Name of the faculty	COs
1.	PL	SRMTRPEC/CS/C001	Cloud Setup	CS8791	Ms.S.Devapriya	CO1



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List of Flash Cards

S.No.	Type	Reference No.	Description	Course Code / Name	Name of the faculty	COs
1.	FP	SRMTRPEC/CS/C001	Linked List	EC8393/Fundamentals of Data Structures in C	Ms.S.Devapriya	CO3



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List of Role Play

S.No.	Type	Reference No.	Description	Course Code / Name	Name of the faculty	COs
1.	RP	SRMTRPEC/CS/C001	ADT-Tree	CS8391/Data Structures	Ms.S.Devapriya	CO3



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List of Collaborative Learning

S.No.	Type	Reference No.	Description	Course Code / Name	Name of the faculty	COs
1.	CL	SRMTRPEC/CS/C001	Henry Fayol's Principles of Management	MG8591/Principles of Management	Mr.G.Parthasarathy	CO1
2.	CL	SRMTRPEC/CS/C002	Debate on Input and Output methods in IO package	CS8392/ Object Oriented Programming	Mr.G.Parthasarathy	CO3



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List of Mind Mapping

S.No.	Type	Reference No.	Description	Course Code / Name	Name of the faculty	COs
1.	MM	SRMTRPEC/CS/C001	Algorithm Development	GE8151 Problem Solving and Python Programming	Ms.R.Sathya	CO1
2.	MM	SRMTRPEC/CS/C002	JSP Programming Techniques	CS8651/Internet Programming	Ms.S.Deva Priya	CO3



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List of Demonstrative Learning

S.No.	Type	Reference No.	Description	Course Code / Name	Name of the faculty	COs
1.	DL	SRMTRPEC/CS/C001	Hardware Components	CS8491/Computer Architecture	Dr.P.Sudhakaran	CO1
2.	DL	SRMTRPEC/CS/002	Networking Package	CS8392/ Object Oriented Programming	Mr.G.Parthasarathy	CO6



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List of Demonstrative Learning

S.No.	Type	Reference No.	Description	Course Code / Name	Name of the faculty	COs
1.	DL	SRMTRPEC/CS/C001	Hardware Components	CS8491/Computer Architecture	Dr.P.Sudhakaran	CO1
2.	DL	SRMTRPEC/CS/002	Networking Package	CS8392/ Object Oriented Programming	Mr.G.Parthasarathy	CO2
3.	DL	SRMTRPEC/CS/003	Event Driven Programming	CS8392/ Object Oriented Programming	Mr.G.Parthasarathy	CO5



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S.No.	Type of pedagogical initiative	Description	Course outcomes
1.	Self Made Video	Explanation of OOP concepts with real time example	CO1
2.	Role Play	Different types of inheritance demonstrated	CO2
3.	Collaborative Learning	Debate on Input and Output methods in IO package	CO3
4.	Online Quiz	MCQ on Multithreading and Generic Programming in Java	CO4
5.	Live Demo	Event Driven Programming with GUI	CO5