



St. Mary's Group of Institutions Guntur

(Formerly St.Mary's Engineering College, St.Mary's P.G. Centre & St.Mary's College of Pharmacy)
(Approved by AICTE & PCI, Permitted by Govt. of A.P., Affiliated to JNTUK & SBTET)
Chebrolu (Village & Mandal), Guntur (Dt.) - 522 212, A.P., INDIA. Website : www.stmarysguntur.com
Phone : 08644-254477, 88, Mobile : 9030235630, 96667 77091, 99483 99402, 99514 28677, Fax : 040-66809093

This Doc Contains,

1. List of all Labs established in the College for experiential Learning
2. Video Links available for a sample Subject in CSE

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CE LABS OF ALL YEARS FOR 2021-2022

1ST SEMESTER LABS

SNO	LAB NAME	YEAR/SEM	REGULATION
1	GIS & CAD Lab	IV/I	R16
2	Irrigation Design & Drawing	IV/I	R16
3	Concrete Technology Lab	III/I	R19
4	Surveying Field Work - II	III/I	R19

2ND SEMESTER LABS

SNO	LAB NAME	YEAR/SEM	REGULATION
1	CAD Lab	III/II	R19
2	Environmental Engineering Lab	III/II	R19


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CSE LABS OF ALL YEARS FOR 2021-2022

1ST SEMESTER LABS

SNO	LAB NAME	YEAR/SEM	REGULATIONS
1	Unified Modeling Lab	IV/I	R16
2	Operating System & Linux Programming Lab	IV/I	R16
3	Computer Networks Lab	III/I	R19
4	AI Tools & Techniques Lab	III/I	R19
5	Data Mining Lab	III/I	R19
6	Introduction to Artificial Intelligence and Data Science Lab	II/I AIDS	R20
7	Object Oriented Programming with Java Lab	II/I AIDS, CSE-DS, CSE-AIML	R20
8	Database Management Systems Lab	II/I AIDS, CSE-DS, CSE-AIML	R20
9	Fundamentals of Data Science Lab	II/I DS	R20
10	Introduction to Artificial Intelligence and Machine Learning Lab	II/I AIML	R20
11	Data Structures Lab	II/I CSE-CS.CSE-IOT	R20
12	OS&UNIX Programming Lab	II/I CSE-CS.CSE-IOT	R20
13	Java Programming Lab	II/I CSE-CS.CSE-IOT	R20
14	English Communication skills Laboratory	II/I AIDS, CSE-DS, CSE-AIML I/II CSE-CS.CSE-IOT	R20
15	Applied Physics Lab	I/II CSE-CS.CSE-IOT	R20
16	Programming for Problem Solving Using C Lab	I/II CSE-CS.CSE-IOT	R20
17	Applied Chemistry Lab	I/II AIDS, CSE-DS, CSE-AIML	R20
18	Programming for Problem Solving using C Lab	I/II AIDS, CSE-DS, CSE-AIML	R20

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2ND SEMESTER LABS

SNO	LAB NAME	YEAR/SEM	REGULATIONS
1	Web Technologies Lab	III/II	R19
2	R Programming Lab	II/II AIDS, CSE-DS, CSE-AIML, CSE-CS, CSE-IOT	R20
3	Data Mining using Python Lab	II/II AIDS, CSE-DS, CSE-AIML	R20
4	Web Application Development Lab	II/II AIDS, CSE-DS, CSE-AIML	R20
5	Computer Organization & Architecture Lab	II/II CSE-CS.CSE-IOT	R20
6	Database Management Systems Lab	II/II CSE-CS.CSE-IOT	R20
7	Applied Physics Lab	I/II AIDS, CSE-DS, CSE-AIML	R20
8	Python Programming Lab	I/II AIDS, CSE-DS, CSE-AIML	R20
9	Data Structures Lab	I/II AIDS, CSE-DS, CSE-AIML	R20
10	Problem Solving Using Python Lab	I/II CSE-CS.CSE-IOT	R20
11	Applied Chemistry Lab	I/II CSE-CS.CSE-IOT	R20
12	Digital Logic Design Lab	I/II CSE-CS.CSE-IOT	R20

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ECE LABS OF ALL YEARS FOR 2021-2022

1ST SEMESTER LABS

SNO	LAB NAME	YEAR/SEM	REGULATION
1	Micro Wave Engineering & Optical Lab	IV/I	R16
2	Digital Signal Processing Lab	IV/I	R16
3	Linear Integrated Circuits and Applications - Lab	III/I	R19
4	Digital Communications Lab	III/I	R19
5	Microprocessor and Microcontrollers - Lab	III/I	R19

2ND SEMESTER LABS

SNO	LAB NAME	YEAR/SEM	REGULATION
1	VLSI Lab	III/II	R19
2	Digital Signal Processing Lab	III/II	R19



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EEE LABS OF ALL YEARS FOR 2021-2022

1ST SEMESTER LABS

SNO	LAB NAME	YEAR/SEM	REGULATIONS
1	Electrical Simulation Laboratory	IV/I	R16
2	Power Systems & Simulation Laboratory	IV/I	R16
3	Electrical Machines-II Laboratory	III/I	R19
4	Control Systems Laboratory	III/I	R19
5	Electrical Measurements & Instrumentation Laboratory	III/I	R19

2ND SEMESTER LABS

SNO	LAB NAME	YEAR/SEM	REGULATIONS
1	Power Electronics Laboratory	III/II	R19
2	Microprocessors & Microcontrollers Laboratory	III/II	R19

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ME LABS OF ALL YEARS FOR 2021-2022

1ST SEMESTER LABS

SNO	LAB NAME	YEAR/SEM	REGULATION
1	CAD/CAM Lab	IV/I	R16
2	Mechatronics Lab	IV/I	R16
3	Thermal Engineering Lab	III/I	R19
4	Theory of Machines Lab	III/I	R19
5	Mechanical Measurements & Metrology Lab	III/I	R19

2ND SEMESTER LABS

SNO	LAB NAME	YEAR/SEM	REGULATION
1	Heat Transfer Lab	III/II	R19
2	CAD /CAM Lab	III/II	R19

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Sl.No	Lesson Plan Topic	Youtube VIDEO Link	PPT VIDEO Link
	MACHINE LEARNING		
1	Introduction to Machine Learning	https://www.youtube.com/watch?v=fC7V8QsPBec&list=PL1xHD4vteKYVpaIiy295pg6_SY5qznc77&index=2	https://www.slideshare.net/liorokach/introduction-to-machine-learning-13809045
2	Linear Rgression	https://www.youtube.com/watch?v= M7Km1XZERU&list=PL1xHD4vteKYVpaIiy295pg6_SY5qznc77&index=9	https://www.slideshare.net/Tech_MX/linear-regression-14155467
3	Logistic Regression	https://www.youtube.com/watch?v=g_LURKuj4&list=PL1xHD4vteKYVpaIiy295pg6_SY5qznc77&index=17	https://www.slideshare.net/RachitVerma25/logistic-regression-249640620?from_search=0
4	Perceptron Learning	https://www.youtube.com/watch?v= VXGGhRprAg&list=PL1xHD4vteKYVpaIiy295pg6_SY5qznc77&index=21	https://www.slideshare.net/KumudArora/perceptron-238384100?from_search=2
5	Decision Trees	https://www.youtube.com/watch?v=yG1nETGyW2E&list=PL1xHD4vteKYVpaIiy295pg6_SY5qznc77&index=34	https://www.slideshare.net/DevangThakar/decision-trees-238624733?from_search=1
6	Evaluation Measures	https://www.youtube.com/watch?v=Du8PsWbX1Y0&list=PL1xHD4vteKYVpaIiy295pg6_SY5qznc77&index=43	https://www.slideshare.net/rushdishams/common-evaluation-measures-in-mlp-and-ir?from_search=1
7	Bootstrapping and Cross Validation	https://www.youtube.com/watch?v=7mhLNwcBWye&list=PL1xHD4vteKYVpaIiy295pg6_SY5qznc77&index=44	https://www.slideshare.net/bayesianlogic/tutorial-on-bootstrap-resampling-with-independent-data?from_search=2
	Artificial Neural Networks		
8	Intro to ANN	https://www.youtube.com/watch?v=g9coqhm5CUM&list=PLhdVEDm7SZ-PdtzOkXWb6xyAPxFInnp-&index=1	https://slideplayer.com/slide/5726881/
9	Network Architecture of ANN	https://www.youtube.com/watch?v=AcoRUO3zi4o&list=PLhdVEDm7SZ-PdtzOkXWb6xyAPxFInnp-&index=2	https://slideplayer.com/slide/5174817/
10	Competitive and Boltzman	https://www.youtube.com/watch?v=5L9EIIcmoqM&list=PLhdVEDm7SZ-PdtzOkXWb6xyAPxFInnp-&index=5	https://www.slideshare.net/RachitVerma25/logistic-regression-249640620?from_search=0
11	Gradient Descent algorithm	https://www.youtube.com/watch?v=i5q6yyjRL94&list=PLhdVEDm7SZ-PdtzOkXWb6xyAPxFInnp-&index=10	https://www.slideshare.net/nihar1215/gradient-boosted-trees-151394320
12	Back Propagation Algorithm	https://www.youtube.com/watch?v=QB5wusBWBIA&list=PLhdVEDm7SZ-PdtzOkXWb6xyAPxFInnp-&index=12	https://www.slideshare.net/DrBaljitSinghKhehra/back-propagation-232626590?from_search=0
13	Solved Examples of Back Propagation	https://www.youtube.com/watch?v=QqhcRaMmQeA&list=PLhdVEDm7SZ-PdtzOkXWb6xyAPxFInnp-&index=14	https://www.slideshare.net/KumudArora/perceptron-238384100?from_search=2
14	Difference between ANN,CNN,RNN	https://www.youtube.com/watch?v=u7obuspdQu4	https://www.slideshare.net/jyotiyadav/8-deep-learningpdf?from_search=0
	Data Mining & WareHousing		
15	Introdtion to Data Mining and Dataware Housing	https://www.youtube.com/watch?v=xEmrFePGjEg&list=PLmAmHQ-_5ySxFoIGmY1MJao-XYvYGxxgj&index=1	https://www.slideshare.net/seeratnawaz84/data-mining-what-is-data-mining?from_search=0
16	Data Mining Functionaities	https://www.youtube.com/watch?v=YCBMSg9Ogx8&list=PLmAmHQ-_5ySxFoIGmY1MJao-XYvYGxxgj&index=2	https://www.slideshare.net/AishwaryaLakshmiA/unit-i-229201156?from_search=0
17	Interestingness of Patterns	https://www.youtube.com/watch?v=NntemRFHvBg&list=PLmAmHQ-_5ySxFoIGmY1MJao-XYvYGxxgj&index=3	https://www.slideshare.net/yogendra48/classification-and-clustering-36428334?from_search=0
18	Classifications of Data Mining	https://www.youtube.com/watch?v=pqDrdxeWvP8&list=PLmAmHQ-_5ySxFoIGmY1MJao-XYvYGxxgj&index=4	https://www.slideshare.net/KumudArora/perceptron-238384100?from_search=2
19	Major Issues of Data Minng	https://www.youtube.com/watch?v=M6UszNda4nM&list=PLmAmHQ-_5ySxFoIGmY1MJao-XYvYGxxgj&index=7	https://www.slideshare.net/ersaranya/major-issues-in-data-mining?from_search=1
20	Frequent Patterns of Data Mining- examples	https://www.youtube.com/watch?v=Pxxgb53s5tQ&list=PLmAmHQ-_5ySxFoIGmY1MJao-XYvYGxxgj&index=9	https://www.slideshare.net/esatjournals/mistreatment-algorithmic-program-to-find-frequent-sequential-patterns-while-not-ordering-the-stumps-sub-sequences-70418177?from_search=0
21	APRIORI Algorithm	https://www.youtube.com/watch?v=CcaRfwlHyNw&list=PLmAmHQ-_5ySxFoIGmY1MJao-XYvYGxxgj&index=10	https://www.slideshare.net/AishwaryaLakshmiA/unit-i-229201156?from_search=0
	ARTIFICIAL INTELLIGENCE		
22	Introduction to AI	https://www.youtube.com/watch?v=kmeaG_BQZ7M&list=PLrjkTqI3jnm_yol-ZK1QqPSn5YSg0NF9r&index=1	https://www.slideshare.net/gayathrysathesana1/artificial-intelligence-185776428?from_search=0
23	Intelligence Composed of AI	https://www.youtube.com/watch?v=uMWaOv9-oHo&list=PLrjkTqI3jnm_yol-ZK1QqPSn5YSg0NF9r&index=3	https://slideplayer.com/slide/5174817/



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24	Agents in AI	https://www.youtube.com/watch?v=2iHaSVEadiI&list=PLrjKTqL3jnm_yol-ZK1QqPSn5YSg0NF9r&index=4	https://www.slideshare.net/KumudArora/perceptron-238384100?from_search=2
25	Problem Solving in AI	https://www.youtube.com/watch?v=CXtN2fik8L0&list=PLrjKTqL3jnm_yol-ZK1QqPSn5YSg0NF9r&index=9	https://www.slideshare.net/DevangThakar/decision-trees-236624733?from_search=1
26	Graph Algorithms	https://www.youtube.com/watch?v=tWVWeAqZ0WU	https://www.slideshare.net/rushdishams/common-evaluation-measures-in-rlp-and-ir?from_search=1
27	BFS in AI	https://www.youtube.com/watch?v=7ffDUDjwz5E	https://www.slideshare.net/ShuvongkorBarman/presentation-on-breadth-first-search-bfs
JAVA			
28	Introduction to JAVA	https://www.youtube.com/watch?v=yRpLJmRo2w&list=PLfqMhTWNbTe3LtfWcvwpqTkUSIB32kJop&index=1	https://www.slideshare.net/VeerabadraBadra/introduction-to-java-9266993
29	Conditional Statement	https://www.youtube.com/watch?v=I5srDu75h_M&list=PLfqMhTWNbTe3LtfWcvwpqTkUSIB32kJop&index=3	https://www.slideshare.net/tocaldera/java-if-else-condition-powerpoint-presentation
30	Best Pattern Questions in Java	https://www.youtube.com/watch?v=GjHNGM7KN3w&list=PLfqMhTWNbTe3LtfWcvwpqTkUSIB32kJop&index=5	https://www.slideshare.net/KumudArora/perceptron-238384100?from_search=2
31	Functions and Methods	https://www.youtube.com/watch?v=qcSz4ef9UHA&list=PLfqMhTWNbTe3LtfWcvwpqTkUSIB32kJop&index=7	https://www.slideshare.net/pohjus/methods-in-java
32	Basics of Time Complexity	https://www.youtube.com/watch?v=bQssdSrSGNE&list=PLfqMhTWNbTe3LtfWcvwpqTkUSIB32kJop&index=9	https://www.slideserve.com/Simplilearn/time-complexity-analysis-what-is-time-complexity-data-structures
33	Arrays Introduction	https://www.youtube.com/watch?v=NHTVY6w2Co&list=PLfqMhTWNbTe3LtfWcvwpqTkUSIB32kJop&index=10	https://www.slideshare.net/KumudArora/perceptron-238384100?from_search=2
DATA BASE MANAGEMENT SYSTEMS			
34	Introduction to DBMS	https://www.youtube.com/watch?v=T7AxM7Vqvaw&list=PLdo5W4Nhv31b33kF46f9aFjoJPOkdlsRc&index=1	https://www.slideshare.net/OECLIBOdishaElectron/database-management-system-ppt
35	File Management Systems in DBMS	https://www.youtube.com/watch?v=bjIEw15FKs8&list=PLdo5W4Nhv31b33kF46f9aFjoJPOkdlsRc&index=2	https://www.slideshare.net/rx178titan/8-0os-filesystem-management?from_search=0
36	Armstrongs Axioms	https://www.youtube.com/watch?v=eIH7zRVelnw&list=PLdo5W4Nhv31b33kF46f9aFjoJPOkdlsRc&index=5	https://www.slideshare.net/AishwaryaLakshmiA/unit-i-229201156?from_search=0
37	Normalizations	https://www.youtube.com/watch?v=p-j9emhNVTg&list=PLdo5W4Nhv31b33kF46f9aFjoJPOkdlsRc&index=9	https://www.slideshare.net/yogendra48/classification-and-clustering-36428334?from_search=0
38	How to find normal form of a relation	https://www.youtube.com/watch?v=rQib0A1oUfg&list=PLdo5W4Nhv31b33kF46f9aFjoJPOkdlsRc&index=14	https://www.slideshare.net/KumudArora/perceptron-238384100?from_search=2
39	Find Highest Normal Form	https://www.youtube.com/watch?v=M9_JPdLcCHQ&list=PLdo5W4Nhv31b33kF46f9aFjoJPOkdlsRc&index=15	https://www.slideshare.net/ersaranya/major-issues-in-data-mining?from_search=1
40	Dependency Preserving Decomposition	https://www.youtube.com/watch?v=8hZ01BtP0wM&list=PLdo5W4Nhv31b33kF46f9aFjoJPOkdlsRc&index=17	https://www.slideshare.net/esatjournals/mistreatment-algorithmic-program-to-find-frequent-sequential-patterns-while-not-ordering-the-stumps-sub-sequences-70418177?from_search=0
PYTHON			
41	Introduction to Python Programming	https://www.youtube.com/watch?v=7wnove7K-ZQ&list=PLu0W_9lII9agwh1XjRt242xIpHhPT2llg&index=1	https://www.slideshare.net/tusharpanda88/python-basicshttps://www.slideshare.net/SHIVAMVERMA12/python-31650128?from_search=1-59573634?from_search=0
42	Our first program in Python	https://www.youtube.com/watch?v=7IWOYhfAcVg&list=PLu0W_9lII9agwh1XjRt242xIpHhPT2llg&index=4	https://www.slideshare.net/EdurekaIN/python-programming-learn-python-python-tutorial-python-training-edureka?from_search=3
43	Variables and Data Types	https://www.youtube.com/watch?v=ORCuz7s5cCY&list=PLu0W_9lII9agwh1XjRt242xIpHhPT2llg&index=6	https://www.slideshare.net/mne-python/mnepython-core-registration-28598463?from_search=2
44	Calculator Using Python	https://www.youtube.com/watch?v=FLVqcxnJP_F&list=PLu0W_9lII9agwh1XjRt242xIpHhPT2llg&index=7	https://www.slideshare.net/EdurekaIN/python-course-python-programming-python-tutorial-python-training-edureka?from_search=6
45	Type Casting in Python	https://www.youtube.com/watch?v=Pu5bqySSSS0&list=PLu0W_9lII9agwh1XjRt242xIpHhPT2llg&index=9	https://www.slideshare.net/JunaidKhan281/python-77024847?from_search=4
46	Recursion in Python	https://www.youtube.com/watch?v=XYwJKFB8DUk&list=PLu0W_9lII9agwh1XjRt242xIpHhPT2llg&index=30	https://www.slideshare.net/QATrainingHub/python-what-is-python-history-of-python-python-tutorial?from_search=7



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47	Set Methods in Python	https://www.youtube.com/watch?v=HORutCnp2zo&list=PLu0W_9lII9agwh1XjRt242xIpHhPT2llg&index=32	https://www.slideshare.net/mne-python/mnepython-core-registration-28598463?from_search=2
	Data Structures		
48	Understanding VOID	https://www.youtube.com/watch?v=ij2JrsUmwCl&list=PLBlnK6fEygRj9lId8sWIUNwKfdUoPd1Y&index=15	https://www.slideshare.net/seeratnawaz84/data-mining-what-is-data-mining?from_search=0
49	Uderstndng NULL Pointers	https://www.youtube.com/watch?v=oPScHNQDcKc&list=PLBlnK6fEygRj9lId8sWIUNwKfdUoPd1Y&index=16	https://www.slideshare.net/AishwaryaLakshmiA/unit-i-229201156?from_search=0
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