

Count for 1st set of labs: Total labs: 20, Sources Available: 14, Partially Available: 4, Not Available:2, Labs are at level 6: 13, Labs are at level 4: 3, Labs at level 0 :3

Sr. No	Lab Id	Lab Name	Number of experiments	Client side Dependencies	Sources status	Integration Level	Current Status of labs								
1	CSE01	Data Structures	9	Adobe flash plugin	Partially Available (.fla files are not Available for last 5 experiments)	0									
2	CSE02	Computer Programming	10	Icedtea plugin,JRE (1.7.0-65)	Available	6	Responsive labs if hosted on AWS, Hosted with 9 expts, Masked 1 expt								
3	CSE11	Computer Organization	9	Java(1.7.0-65),Icedtea Plugin, Flash	Partially Available (need .fla for 1,2 & the last experiment.)	6	Masked 2 experiments and moved the lab to level 6 with updated makefile								
4	CSE04	Problem Solving	10	None	Available	6									
5	CSE07	Databases	10	None	Available	4									
6	CSE15	Digital Logic Design	10	icedtea plugin,Java (1.7.0-65)	Available	6									
7	CSE19	Image Processing	11	None	Available	6									
8	CSE18	Computer Graphics	11	Java(1.7.0-65),Icedtea Plugin	Available	6									
9	CSE20	Pattern Recognition	8	Java(1.7.0-65),Icedtea Plugin	Not Available (Need .java for all the experiments.)	0									
10	CSE06	Data Mining	11	None	Available	4									
11	CSE29	Cryptography	10	None	Available	6									
12	CSE22	Artificial Neural Networks	10	Java(1.7.0-65),Icedtea Plugin	Available	6									
13	CSE14	VLSI	10	Java, WaveForm	Available	6									
14	EERC01	Basic Engineering Mechanics and Strength of Materials	10	Java(1.7.0-65),Icedtea Plugin (1.7.65), Java3D(1.5.2), Flash	Partially Available (Need fla for 4th experiment and .java for 9th experiment)	6									
15	EERC03	Hydraulics and Fluid Mechanics	10	Java(1.7.0-65),Icedtea Plugin (1.7.65), Java3D(1.5.2), Flash	Available	6									
16	CCNSB06	Physical Chemistry	10	Adobe Flash Plugin and Java(1.6),Java3D(1.5.2) and Flash	Partially Available	6	Masked the last two experiment and moved the lab to level 6 with updated makefile								
17	CSE24	Natural Language Processing	10	none	Available	6	Moved from 2nd Set of labs								
18	EERC04	Basic Structural Analysis	10	Java 3D, Flash,Java and IcedTea plugin	Available	6	Moved from 2nd Set of labs								

8	CSE09	Linux Lab	9	None	Available	4								
20	EMT	EM Theory	10	java (1.6.0-65), OpenJDK Runtime Environment (IcedTea 2.5.3), Java 3D (1.5.2)	Not Available (Need .java for all the experiments.)	0								

Count for 2nd set of labs: Total labs: 16, Sources Available: 8, Partially Available: 3, Not Available: 5

1	PHY14	Physical Sciences	9	Java, Java3D 1.5.2 and Flash	Partially Available (Need .Java files for 6 expts)	0								
2	CCNSB02	Colloid and Surface Chemistry	9	Adobe Flash Plugin	Partially Available (.fla files are not available for 1,2,3,5,6,8,9 experiments)									
3	CCNSB03	Molecular Absorption Spectroscopy	10	Adobe Flash Plugin	Available	6								
4	CCNSB07	Molecular Interactions	11	Java 3D, Java, IcedTea Plugin	Not Available (require .java files for all the experiments.)	0								
5	EERC05	Geotechnical Engineering Lab	9	Flash Plugin,IcedTea plugin and java 3D	Not Available	0								
6	CSE23	Computational Linguistics	9	none	Available	6								
7	EERC06	Structural Dynamics	10	Java 3D, Flash,Java and IcedTea plugin	Available (Need to test src)	6								
8	EERC02	Soil Mechanics and Foundation Engineering	10	Java 3D, Flash,Java and IcedTea plugin	Available (need to test the source files)	2	Moved from 2nd Set of labs							
9	CCNSB01	Molecular Florescence Spectroscopy	10	Adobe Flash Plugin	Available	6								
10	CCNSB04	Quantum Chemistry	10	Java and icedtea plugin	Not Available	0								
11	CCNSB05	Circular Dichronism Spectroscopy	10	Adobe Flash Plugin, Java Icedtea Plugin	Partially Available (Require .java for 3, 4, 8 experiments & .fla for 1, 6, 7 experiments.)									
12	CSE05	Principles of Programming Languages	9	None	Available	4								
13	CSE30	Analog CMOS VLSI Circuit Design	9	Java and IcedTea plugin	Available	6								
14	CSE17	Mobile Robotics	10	Java & Iced-tea plugin	Not Available	0								
15	CSE21	Optical Remote Sensing	8	flash, Java, Java 3D	Not Available	0								
16	CSE16	Speech Signal Processing	10	Java Plugin 1.7.0_79,icedtea plugin	Available	6								

[illegible]

S.No	Lab Id	Lab Name	List of Experiments	Client side Dependencies	java	-fasm	-jar	-jdp	-nrf	-fa	-js	-jy	-gfp	-s	-m	Source code required or not (Yes/No)	Source at?? (Bitbucket/Container)	Status		
			Free Vibration of Single Degree of Freedom System	Java 3D, Flash,Java and kooltra plugin	Available	Available	Available	Available	Available	Not available	Available									
			Forced Vibration of Single Degree of Freedom System	Java 3D, Flash,Java and kooltra plugin	Available	Available	Available	Available	Available	Not available	Available									
			Impulse Response of SDOF	Java 3D, Flash,Java and kooltra plugin	Available	Available	Available	Available	Available	Not available	Available									
			Vibration of M.D.O.F System	Java 3D, Flash,Java and kooltra plugin	Available	Available	Available	Available	Available	Not available	Available									
			Behaviour of Rigid Block	Java 3D, Flash,Java and kooltra plugin	Available	Available	Available	Available	Available	Not available	Available									
			Torsional Response of Building	Java 3D, Flash,Java and kooltra plugin	Available	Available	Available	Available	Available	Not available	Available									
			Continuous Systems	Java 3D, Flash,Java and kooltra plugin	Available	Available	Available	Available	Available	Not available	Available									
			Vibration Control	Java 3D, Flash,Java and kooltra plugin	Available	Available	Available	Available	Available	Not available	Available									
8	CSE16	Speech Signal Processing	Manual speech signal-to-symbol transformation	Java Plugin 1.7.0_79,ecdsa plugin	Not available	Available	Available	Not Applicable	Not Applicable	Not Applicable	Available		Not Applicable	Available	Not Applicable	Not Applicable	YES	Source java for all the 9 experiments are not available in bitbucket and is container		
			Speech production mechanism	Java Plugin 1.7.0_79,ecdsa plugin	Not available	Available	Available	Not Applicable	Not Applicable	Not Applicable	Available		Not Applicable	Available	Not Applicable	Not Applicable	YES			
			Number of speech signal	Java Plugin 1.7.0_79,ecdsa plugin	Not available	Available	Available	Not Applicable	Not Applicable	Not Applicable	Available		Not Applicable	Available	Not Applicable	Not Applicable	YES			
			Bitrate of DSP	Java Plugin 1.7.0_79,ecdsa plugin	Not available	Available	Available	Not Applicable	Not Applicable	Not Applicable	Available		Not Applicable	Available	Not Applicable	Not Applicable	YES			
			Short-time spectrum analysis of speech	Java Plugin 1.7.0_79,ecdsa plugin	Not available	Available	Available	Not Applicable	Not Applicable	Not Applicable	Available		Not Applicable	Available	Not Applicable	Not Applicable	YES			
			Spectrographic analysis of speech	Java Plugin 1.7.0_79,ecdsa plugin	Not available	Available	Available	Not Applicable	Not Applicable	Not Applicable	Available		Not Applicable	Available	Not Applicable	Not Applicable	YES			
			Capital analysis of speech	Java Plugin 1.7.0_79,ecdsa plugin	Not available	Available	Available	Not Applicable	Not Applicable	Not Applicable	Available		Not Applicable	Available	Not Applicable	Not Applicable	YES			
			Linear prediction analysis of speech	Java Plugin 1.7.0_79,ecdsa plugin	Not available	Available	Available	Not Applicable	Not Applicable	Not Applicable	Available		Not Applicable	Available	Not Applicable	Not Applicable	YES			
			Formant synthesis	Java Plugin 1.7.0_79,ecdsa plugin	Not available	Available	Available	Not Applicable	Not Applicable	Not Applicable	Available		Not Applicable	Available	Not Applicable	Not Applicable	YES			
9	CSE21	Optical Remote Sensing	EM Spectrum	flash, Java, Java 3D	Not available	Available	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Available		Not Applicable	Available	Not Applicable	Not Applicable	YES			
			Black Body Radiation	flash, Java, Java 3D	Not available	Available	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Available		Not Applicable	Available	Not Applicable	Not Applicable				
			Reflection of Natural objects in the Electromagnetic spectrum	flash, Java, Java 3D	Not available	Available	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Available		Not Applicable	Available	Not Applicable	Not Applicable				
			Sensors and Image Data Characteristics	flash, Java, Java 3D	Not available	Available	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Available		Not Applicable	Available	Not Applicable	Not Applicable				
			Capturing Area-wide reflectance effect of solid vegetation	flash, Java, Java 3D	Not available	Available	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Available		Not Applicable	Available	Not Applicable	Not Applicable				
			Data quantization levels and object estimation effect of Radiometric characteristics of the sensor	flash, Java, Java 3D	Not available	Available	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Available		Not Applicable	Available	Not Applicable	Not Applicable				
			Visual Analysis - Hand Combination	flash, Java, Java 3D	Not available	Available	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Available		Not Applicable	Available	Not Applicable	Not Applicable				
			Band Algebra - Index based Analysis	flash, Java, Java 3D	Not available	Available	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Available		Not Applicable	Available	Not Applicable	Not Applicable				
10	EEEC02	Soil Mechanics and Foundation Engineering	Water Content Experiment	Java 3D, Flash,Java and kooltra plugin	Available	Available	Available	Available	Available	Available	Available		Not Applicable	Available	Not Applicable	Not Applicable				
			Unit Weight Experiment	Java 3D, Flash,Java and kooltra plugin	Available	Not available	Available	Available	Available	Available	Available		Not Applicable	Available	Not Applicable	Not Applicable				
			Specific Gravity Experiment	Java 3D, Flash,Java and kooltra plugin	Available	Available	Available	Available	Available	Available	Available		Not Applicable	Available	Not Applicable	Not Applicable				
			Grain Size Distribution Experiment	Java 3D, Flash,Java and kooltra plugin	Not available	Not available	Available	Available	Available	Available	Available		Not Applicable	Available	Not Applicable	Not Applicable				
			Aterberg Limits Experiment	Java 3D, Flash,Java and kooltra plugin	Available	Available	Available	Available	Available	Available	Available		Not Applicable	Available	Not Applicable	Not Applicable				
			Permeability Experiment	Java 3D, Flash,Java and kooltra plugin	Available	Not available	Available	Available	Available	Available	Available		Not Applicable	Available	Not Applicable	Not Applicable				
			Compaction Test Experiment	Java 3D, Flash,Java and kooltra plugin	Available	Not available	Available	Available	Available	Available	Available		Not Applicable	Available	Not Applicable	Not Applicable				
			Consolidation Test Experiment	Java 3D, Flash,Java and kooltra plugin	Available	Available	Available	Available	Available	Available	Available		Not Applicable	Available	Not Applicable	Not Applicable				
			Direct Shear Test Experiment	Java 3D, Flash,Java and kooltra plugin	Available	Available	Available	Available	Available	Available	Available		Not Applicable	Available	Not Applicable	Not Applicable				
			Triaxial Test Experiment	Java 3D, Flash,Java and kooltra plugin	Available	Available	Available	Available	Available	Available	Available		Not Applicable	Available	Not Applicable	Not Applicable				
11	CNSB01	Molecular Fluorescence Spectroscopy	Introduction to the fluorescence spectroscopy principle	Adobe Flash Plugin	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Available	Available	Available		Not Applicable	Not Applicable	Not Applicable	Not Applicable	NO	Source are available for all the experiments in this lab		
			Familiarization with the fluorescence instrumentation	Adobe Flash Plugin	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Available	Available	Available		Not Applicable	Not Applicable	Not Applicable	Not Applicable	NO			
			Familiarization with excitation and emission spectra, Mirror Image relation and Stokes Shift	Adobe Flash Plugin	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Available	Available	Available		Not Applicable	Not Applicable	Not Applicable	Not Applicable	NO			
			Demonstration of solvent effect on fluorescence spectra	Adobe Flash Plugin	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Available	Available	Available		Not Applicable	Not Applicable	Not Applicable	Not Applicable	NO			
			Demonstration of pH effect on fluorescence spectra	Adobe Flash Plugin	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Available	Available	Available		Not Applicable	Not Applicable	Not Applicable	Not Applicable	NO			
			Effect of concentration (optical density) of a fluorophore on emission spectra	Adobe Flash Plugin	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Available	Available	Available		Not Applicable	Not Applicable	Not Applicable	Not Applicable	NO			
			Relationship between the concentration of a fluorophore	Adobe Flash Plugin	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Available	Available	Available		Not Applicable	Not Applicable	Not Applicable	Not Applicable	NO			
			Fluorescence quenching	Adobe Flash Plugin	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Available	Available	Available		Not Applicable	Not Applicable	Not Applicable	Not Applicable	NO			
			Determination of unknown concentration of an analyte in solution	Adobe Flash Plugin	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Available	Available	Available		Not Applicable	Not Applicable	Not Applicable	Not Applicable	NO			
			Determination of fluorescence quantum yield of a fluorophore	Adobe Flash Plugin	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Available	Available	Available		Not Applicable	Not Applicable	Not Applicable	Not Applicable	NO			
			Fluorescence Quenching and Stern-Volmer plot	Adobe Flash Plugin	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Available	Available	Available		Not Applicable	Not Applicable	Not Applicable	Not Applicable	NO			
			Estimation of the quenching constant from Stern-Volmer plot	Adobe Flash Plugin	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Available	Available	Available		Not Applicable	Not Applicable	Not Applicable	Not Applicable	NO			
			Effects of excimer and exciplex formation on fluorescence emission spectra	Adobe Flash Plugin	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Available	Available	Available		Not Applicable	Not Applicable	Not Applicable	Not Applicable	NO			
12	CNSB04	Quantum Chemistry	UV-Visible Spectroscopy of Conjugated Molecules	Java and kooltra plugin	Not Available	Available	Not Required	Not Applicable	Not Applicable	Not Applicable	Available		Not Applicable	Available	Not Applicable	Not Required				
			Vib-rotational Spectroscopy of Hydrogen Chloride	Java and kooltra plugin	Not Available	Available	Not Required	Not Applicable	Not Applicable	Not Applicable	Available		Not Applicable	Available	Not Applicable	Not Required				
			Geometry Optimization using ab initio quantum calculations	Java and kooltra plugin	Not Available	Available	Not Required	Not Applicable	Not Applicable	Not Applicable	Available		Not Applicable	Available	Not Applicable	Not Required				
			Calculation of Vibrational Frequency of Molecules and Visualization of Normal Modes	Java and kooltra plugin	Not Available	Available	Not Required	Not Applicable	Not Applicable	Not Applicable	Available		Not Applicable	Available	Not Applicable	Not Required				
			Truckel Molecular Orbital Theory	Java and kooltra plugin	Not Available	Available	Not Required	Not Applicable	Not Applicable	Not Applicable	Available		Not Applicable	Available	Not Applicable	Not Required				
			Conformational Analysis of 1,2-dichloroethane	Java and kooltra plugin	Not Available	Available	Not Required	Not Applicable	Not Applicable	Not Applicable	Available		Not Applicable	Available	Not Applicable	Not Required				
			Transition State Calculation for a SN2 reaction	Java and kooltra plugin	Not Available	Available	Not Required	Not Applicable	Not Applicable	Not Applicable	Available		Not Applicable	Available	Not Applicable	Not Required				
			Eigen system: Geometrical Interpretation	Java and kooltra plugin	Not Available	Available	Not Required	Not Applicable	Not Applicable	Not Applicable	Available		Not Applicable	Available	Not Applicable	Not Required				
			Geometry Optimization of Molecules	Java and kooltra plugin	Not Available	Available	Not Required	Not Applicable	Not Applicable	Not Applicable	Available		Not Applicable	Available	Not Applicable	Not Required				
13	CNSB05	Circular Dichroism Spectroscopy	1. To determine the specific rotation of a sugar using a polarimeter	Adobe Flash Plugin	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Available	Not Available	Available		Not Applicable	Available	Not Applicable	Not Applicable	YES	Source java for 3, 4, 5 experiments & file for 1, 6, 7 experiments) are not available in bitbucket and is container		
			2. To understand the effect of chiral substances on plane polarized light as a function of wavelength	Adobe Flash Plugin	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Available	By file is available	Available		Available	Available	Not Applicable	Not Applicable	NO			
			3. To study the Optical Rotatory Dispersion (ORD) of some chiral substances	Java and kooltra plugin	Available	Available	Available	Not Available	Available	Available	Available		Available	Available	Not Applicable	Not Applicable	YES			
			4. To study the Circular Dichroism of some substances with chiral chromophores	Adobe Flash Plugin	Not Applicable	Available	Available	Not Available	Available	Available	Available		Not Applicable	Available	Not Applicable	Not Applicable	YES			
			5. To Study the operational details of a CD spectrometer	Adobe Flash Plugin	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Available	Available	Available		Not Applicable	Available	Not Applicable	Not Applicable	NO			
			6. To Study the effect of Secondary Structure elements on CD spectrum of proteins	Adobe Flash Plugin	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Available	Not Available	Available		Not Applicable	Available	Not Applicable	Not Applicable	YES			
			7 To deconvolute the CD spectrum of a green protein solution and to classify it in terms of its secondary structure elements	Adobe Flash Plugin	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Available	Not Available	Available		Not Applicable	Available	Not Applicable	Not Applicable	YES			
			8. To study the thermal stability of proteins	Adobe Flash Plugin	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Available	Not Available	Available		Not Applicable	Available	Not Applicable	Not Applicable	YES			
			9. To study the effect of chemical denaturants on protein stability	Adobe Flash Plugin	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Available	Available	Available		Not Applicable	Available	Not Applicable	Not Applicable	NO			
			10. To study the comparison between protein unfolding and protein aggregation in the presence of chemical denaturing agents	Adobe Flash Plugin	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Available	Available	Available		Not Applicable	Available	Not Applicable	Not Applicable	NO			
14	EEEC04	Basic Structural Analysis	1.Single Span Beam Experiment	Java 3D, Flash,Java and kooltra plugin	Available	Not Available	Available	Available	Available	Available	Available		Not Applicable	Available	Not Applicable	Not Applicable	YES	Source java & file for all the 10 experiments) are not available in bitbucket and is container		
			2. Continuous Beams Experiment	Java 3D, Flash,Java and kooltra plugin	Available	Not Available	Available	Available	Available	Available	Available		Not Applicable	Available	Not Applicable	Not Applicable	YES			
			3. Column Analysis Experiment	Java 3D, Flash,Java and kooltra plugin	Available	Not Available	Available	Available	Available	Available	Available		Not Applicable	Available	Not Applicable	Not Applicable	YES			
			4. Portal Frames Experiment	Java 3D, Flash,Java and kooltra plugin	Available	Not Available	Available	Available	Available	Available	Available		Not Applicable	Available	Not Applicable	Not Applicable	YES			
			5. Plane Experiment	Java 3D, Flash,Java and kooltra plugin	Available	Not Available	Available	Available	Available	Available	Available		Not Applicable	Available	Not Applicable	Not Applicable	YES			
			6. Rigid Joins Experiment	Java 3D, Flash,Java and kooltra plugin	Available	Not Available	Available	Available	Available	Available	Available		Not Applicable	Available	Not Applicable	Not Applicable	YES			
			7. Arches Experiment	Java 3D, Flash,Java and kooltra plugin	Available	Not Available	Available	Available	Available	Available	Available		Not Applicable	Available	Not Applicable	Not Applicable	YES			
			8. Trusses Experiment	Java 3D, Flash,Java and kooltra plugin	Available	Not Available	Available	Available	Available	Available	Available		Not Applicable	Available	Not Applicable	Not Applicable	YES			
			9. Retaining Walls Experiment	Java 3D, Flash,Java and kooltra plugin	Available	Not Available	Available	Available	Available	Available	Available		Not Applicable	Available	Not Applicable	Not Applicable	YES			
			10. Plastic Hinge Experiment	Java 3D, Flash,Java and kooltra plugin	Available	Not Available	Available	Available	Available	Available	Available		Not Applicable	Available	Not Applicable	Not Applicable	YES			
			1. Design and characterization of common source amplifier with Resistive load	Java and kooltra plugin	Available	Available	Not Available	Not Available	Not Applicable	Not Applicable	Available		Not Applicable	Available	Not Applicable	Not Applicable	NO	Source are available		
15	CSE30	Analogue CMOS VLSI Circuit Design	2. Design and characterization of common source amplifier with Diode connected load	Java and kooltra plugin	Available	Available	Not Available	Not Available	Not Applicable	Not Applicable	Available		Not Applicable	Available	Not Applicable	Not Applicable	NO			
			* Transfer Characteristics (Via vis Vout)	Java and kooltra plugin	Available	Available	Not Available	Not Available	Not Applicable	Not Applicable	Available		Not Applicable	Available	Not Applicable	Not Applicable	NO			
			* Frequency Response (Via vis Frequency)	Java and kooltra plugin	Available	Available	Not Available	Not Available	Not Applicable	Not Applicable	Available		Not Applicable	Available	Not Applicable	Not Applicable	NO			

[illegible]