

E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS), NAGAPATTINAM
DEPARTMENT OF MECHANICAL ENGINEERING
2022-23 EVEN SEMESTER
VIRTUAL LAB EXPERIMENTS

S.No	Name of the Lab	Lab Coordinator	Experiment	Virtual Lab Link	Yr/Sem/Sec	Lab coordinator sign
1	Manufacturing Technology – II Lab	Dr.V.SivaramaKrishnan	Laser spot welding using NdYAG laser system	https://mm-coep.vlabs.ac.in/exp/welding-ndyag-laser/index.html	II/IV	<i>V. Sivarama Krishnan</i>
2			Study of Electrochemical machining process	https://mm-coep.vlabs.ac.in/exp/electrochemical-machining-process/	II/IV	
3	Engineering Metrology and Measurements Lab	Dr.J.Jeevamalar	Characterize the Strain gauge sensor	https://sl-coep.vlabs.ac.in/exp/strain-gauge-sensor/index.html	II/ IV / A&B	<i>[Signature]</i>
4			To understand working principle of LVDT	https://sl-coep.vlabs.ac.in/exp/lvdt/index.html		
5	Theory of Machines Lab	Dr.A.Arunkumar	Moment of Inertia by varying the radius of Rim Type Flywheel.	https://dom-nitk.vlabs.ac.in/exp/rim-type-flywheel/theory.html	III / VI / A&B	<i>[Signature]</i>
6			Balancing of Multiple Mass in Multiple Plane	https://dom-nitk.vlabs.ac.in/exp/multiple-mass-in-multiple-plane/simulation.html		

[Signature]
Virtual lab coordinator.

Mr.G.HARI NARAYANAN
ASSISTANT PROFESSOR
 Dept. of Mechanical Engineering
 E.G.S.Pillay Engineering College

[Signature]
HoD
HEAD OF THE DEPARTMENT
 Department of Mechanical Engineering
 E.G.S. Pillay Engineering College
 Nagapattinam.

Virtual lab experiment details

Name of the faculty(s)	Name of the Theory/Laboratory course with Course code	Virtual Laboratory experiment names	Virtual Laboratory URL web links
K.Nandakumar	1901GE102- PRINCIPLES OF ELECTRICAL ENGINEERING (Theory)	1.Verification of OHM'S LAW 2.Verification and interpretation of truth table for AND, OR, NOT, NAND, NOR, Ex-OR, Ex-NOR gates.	1. http://vlabs.iitkgp.ac.in/be/exp4/index.html 2. https://de-iitr.vlabs.ac.in/exp/truth-table-gates/simulation.html
Yokeswaran.V	1902EE452-Analog and Digital IC lab	1.Analysis of Functions of BCD-TO-7-segment Decoder / Driver and Operation of 7-segment LED Display 2.Analysis and Synthesis of Boolean Expressions using Basic Logic Gates 3.Analysis and Synthesis of Sequential Circuits using Basic Flip-Flops	1. http://vlabs.iitkgp.ac.in/dec/exp1/index.html 2. http://vlabs.iitkgp.ac.in/dec/exp3/index.html# 3. http://vlabs.iitkgp.ernet.in/dec/exp8/index.html#
Dr.P.J.Sureshababu	1902EE451-Synchronous and Asynchronous Machines lab	1.V and Inverted V curves of Synchronous Motor 2.Load Test on Three Phase Alternator 3.Speed control of slipring Induction Motor.	1. https://em-coep.vlabs.ac.in/exp/synchronous-motor/ 2. https://em-coep.vlabs.ac.in/exp/load-test-phase-alternator/ 3. https://ems-iitr.vlabs.ac.in/exp/speed-control-slip-ring/
K.Gokulraj	1902EE651 - POWER ELECTRONICS DRVES LAB	1.Halfwave Rectifier Experiment 2.Fullwave Rectifier Experiment	1. http://vlabs.iitkgp.ac.in/psac/newlabs2020/ssds/newexp4/index.html 2. http://vlabs.iitkgp.ac.in/psac/newlabs2020/ssds/newexp3/index.html
Sivamani.S	1901GEX53- BASIC ELECTRICAL AND ELECTRONICS ENGINEERING LAB	1. VI Characteristics of a Diode, 2. Half Wave Rectification	http://vlabs.iitkgp.ac.in/be/exp5/index.html , http://vlabs.iitkgp.ac.in/be/exp6/index.html
S. Latha	1901GEX53- BASIC ELECTRICAL AND ELECTRONICS ENGINEERING LAB	1.Ohms Law, 2.Kirchhoff law	1. http://vlabs.iitkgp.ernet.in/be/exp4/index.html 2. https://vlab.amrita.edu/?sub=1&brch=75&sim=217&cnt=1
Dr.M.Vinothkumar	1902EE652/MICROPROCESSORS AND MICROCONTROLLERS LAB	1. Flash LED in 8051 MicroController 2. Design and Simulation of Arithmetic Logic Unit	1. http://ebootathon.com/labs/beta/ec/MicroprocessorAndMicrocontrollerLab/exp1/simulation.html 2. https://he-coep.vlabs.ac.in/exp/arithmetic-logic-unit/simulation.html


HOD/EEE

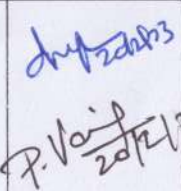
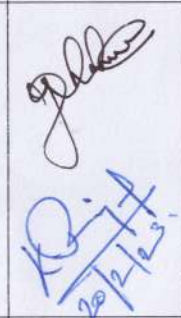
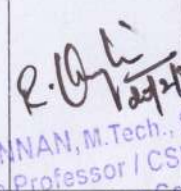
Dr. T. SURESH PADMANABHAN, M.E., Ph.D
PROFESSOR & HOD

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E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS), NAGAPATTINAM
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

2022-23 EVEN SEMESTER

VIRTUAL LAB EXPERIMENTS

S.No	Name of the Course	Course Coordinator	Experiments	Virtual Lab Link	Yr/Sem/Sec	Lab coordinat or sign
1	Database Management Systems Lab	Ms. P.Vennila	Message Authentication Code (CBC-MAC)	https://cse29-iiith.vlabs.ac.in/exp/message-authentication-codes/	II/IV/A&B	
		Ms.K.Pradeepa	POS Tagging - Viterbi Decoding	https://nlp-iiith.vlabs.ac.in/exp/viterbi-decoding/		
2	Operating Systems Lab	Mr.G.Arulselvan	POS Tagging - Hidden Markov Model	https://nlp-iiith.vlabs.ac.in/exp/markov-model/	II/IV/A&B	
		Ms. K. Rajammal	Morphology	https://nlp-iiith.vlabs.ac.in/exp/morphology/		
4	Computer Prgramming Lab	Dr.R.Manivannan	Pointers	https://cse02-iiith.vlabs.ac.in/exp/pointers/	I/I (CSE,IT, ECE,CSBS, BME)	
		Mr.V.R. Sukumaran Mr,N,Kannan Mr.R.Gopinath Dr.A.Emmanuel Peo Mariadas	Recursion	https://cse02-iiith.vlabs.ac.in/exp/cp-recursion/		


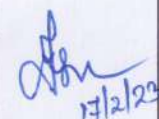
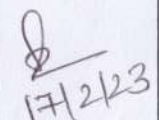
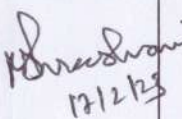
Note: As per the FDP and Resource person instruction VLAB is suitable for hardware based laboratory programmes, From CSE we will take experiments from VLAB site and practice it in our regular platforms

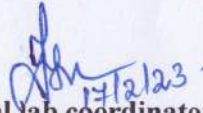

Dr. T. GANESAN, M.E., Ph.D.,
HOD
Professor & Head

E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS), NAGAPATTINAM
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

2022-23 EVEN SEMESTER

VIRTUAL LAB EXPERIMENTS

S.No	Name of the Lab	Lab Coordinator	Experiment	Virtual Lab Link	Year/Sem /Sec	Lab coordinator sign
1	1902EC451 - Electronics and Integrated Circuits Laboratory	Dr.V.Sathiya	1.Design and Implementation of Various Arithmetic Circuits 2.Design and Simulate Various Code Converters	https://he-coep.vlabs.ac.in/List%20of%20experiments.html	II/IV/A & B	
2	1902EC452 - Microprocessors and Microcontrollers Laboratory	Dr. M. Nuthal Srinivasan	1.To study a simple two-bit ripple counter 2.Design a synchronous up/down counter	https://de-iitg.vlabs.ac.in/List%20of%20experiments.html	II/IV/A & B	
3	1902EC651 - VLSI Design Laboratory	Mrs. S.CHITRA	1.Design of multiplexer circuit using gates 2.Multiplexer using Universal logic gates	https://dld-iitb.vlabs.ac.in/List%20of%20experiments.html	III/VI/A & B	
4	1902EC652 - Analog & Digital Communication Laboratory	Mrs.R.S. KOTEESHWARI	1.Function generator using operational amplifier (sine, triangular & square wave) 2.Astable and monostable multivibrator using IC 555	https://ae-iitr.vlabs.ac.in/List%20of%20experiments.html	III/VI/A & B	

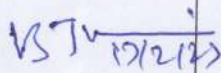

Virtual lab coordinator
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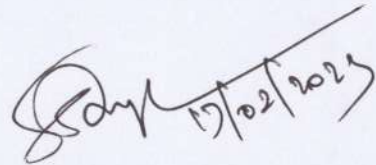

HoD
Mrs. R.S. KOTEESHWARI, ME., (Ph.D)
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 Dept. of Electronics and Communication Engineering
 E.G.S.Pillay Engineering College (Autonomous)

E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS), NAGAPATTINAM
DEPARTMENT OF CIVIL ENGINEERING

2022-23 EVEN SEMESTER

VIRTUAL LAB EXPERIMENTS

S. No	Name of the Lab	Lab Coordinator	Experiment	Virtual Lab Link	Yr/Sem/Sec	Lab coordinator sign
1.	1902CE452 – SOIL MECHANICS LABORATORY	Mr.V.Balasubramani Mr.A.Arjunan	Consolidation Test	https://smfe-iiith.vlabs.ac.in/exp/consolidation-test/simulation.html	II/IV	 17/2/23
			Triaxial Test	https://smfe-iiith.vlabs.ac.in/exp/triaxial-test/simulation.html		



Virtual lab coordinator
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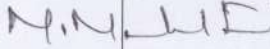

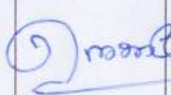



HoD
Dr.S. ANAND KUMAR VARMA, M.E., Ph.D.,
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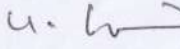
E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS), NAGAPATTINAM
DEPARTMENT OF BIOMEDICAL ENGINEERING

2022-23 EVEN SEMESTER

VIRTUAL LAB EXPERIMENTS

S.No	Name of the Lab	Lab Coordinator	Experiment	Virtual Lab Link	Yr/Sem/Sec	Lab coordinator sign
1	ADC Lab	Dr.M.Malathi	1. Amplitude Modulation 2. Frequency Modulation	https://kcgcollege.ac.in/Virtual-Lab/Electronics-and-Communication-Engineering/index.html https://kcgcollege.ac.in/Virtual-Lab/Electronics-and-Communication-Engineering/Exp-2/index.html	III/VI	
2	BMI Lab	Mr.K.Kalanithi	1. Determination of Ph 2. ECG signal and analysis using Simulation	https://ee1-nitk.vlabs.ac.in/exp/determination-of-ph/simulation.html https://vlab.amrita.edu/?sub=3&brch=78&sim=219&cnt=4	II Yr/III	
3	DTE Lab	Mr.R.Venkatesan	1. Study of Bipolar Limb Leads for Monitoring of Electrocardiogram (ECG) 2. Monitoring of Electroencephalogram (EEG) signal for different lobes.	https://bmi-iitr.vlabs.ac.in/exp/bipolar-limb-leads/simulation.html https://bmi-iitr.vlabs.ac.in/exp/eeg-signal-different-lobes/simulation.html	III/VI	

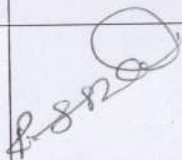
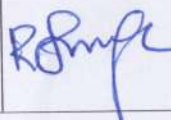

Virtual lab coordinator


HoD

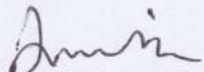
E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS), NAGAPATTINAM
DEPARTMENT OF INFORMATION TECHNOLOGY


2022-23 EVEN SEMESTER

VIRTUAL LAB EXPERIMENTS

S.No	Name of the Course	Course Coordinator	Experiments	Virtual Lab Link	Yr/Sem/Sec	Lab coordinator sign
1	Database Management Systems Lab	Dr.R.Lavanya	Message Authentication Code (CBC-MAC)	https://cse29-iiith.vlabs.ac.in/exp/message-authentication-codes/	II/IV	
			POS Tagging - Viterbi Decoding	https://nlp-iiith.vlabs.ac.in/exp/viterbi-decoding/		
2	Java Programming Lab	Dr.S.Manikandan	Dictionary Generation	https://cl-iiith.vlabs.ac.in/exp/dictionary-generation/	II/IV	
			Consistency and Inconsistency in Interaction	https://cpe-iitg.vlabs.ac.in/exp/consistency-and-inconsistency/		
3	Operating Systems Lab	Dr.R.Anand Babu	POS Tagging - Hidden Markov Model	https://nlp-iiith.vlabs.ac.in/exp/markov-model/	II/IV	
			Morphology	https://nlp-iiith.vlabs.ac.in/exp/morphology/		
4	Data Mining Laboratory	Dr.R.Lavanya	Serial Position Effect	https://cpe-iitg.vlabs.ac.in/exp/serial-position-effect/	III/VI	
			Word Analysis	https://nlp-iiith.vlabs.ac.in/exp/word-analysis/		

Note: As per the FDP and Resource person instruction VLAB is suitable for hardware based laboratory programmes, From IT we will take experiments from VLAB site and practice it in our regular platforms


 Virtual lab coordinator
Ms. K. NAGALAKSHMI
 Associate Professor / IT
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 HOD
Dr. S. MANIKANDAN
 Associate Professor and Head
 Chairman - Board of Studies
 Department of Information Technology

E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS), NAGAPATTINAM
DEPARTMENT OF SCIENCE AND HUMANITIES

2022-23 ODD SEMESTER

VIRTUAL LAB EXPERIMENTS

17.02.2023

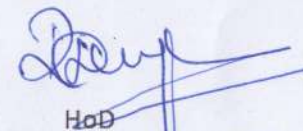
S.No	Name of the Lab	Lab Coordinator	Experiment	Virtual Lab Link	Yr/Sem/Sec	Lab coordinator sign
1	PHYSICS	Dr.E.Edwrd Anand	<ol style="list-style-type: none"> 1. Radiation with Temperature Change Using Stefan's Law 2. To study polarization of light using He-Ne Laser 	<ol style="list-style-type: none"> 1. https://bop-iitk.vlabs.ac.in/exp/stefans-law/ 2. https://bop-iitk.vlabs.ac.in/exp/he-ne-laser-polarization/simulation.html 	I/I/CSBS	Dr.N.Moorthy
2	PHYSICS	Dr.N.Moorthy	<ol style="list-style-type: none"> 1. Radiation with Temperature Change Using Stefan's Law 2. To study polarization of light using He-Ne Laser 	<ol style="list-style-type: none"> 1. https://bop-iitk.vlabs.ac.in/exp/stefans-law/ 2. https://bop-iitk.vlabs.ac.in/exp/he-ne-laser-polarization/simulation.html 	I/I/MECH-B	Dr.N.Moorthy
3	PHYSICS	Dr.N.Moorthy	<ol style="list-style-type: none"> 1. Radiation with Temperature Change Using Stefan's Law 2. To study polarization of light using He-Ne Laser 	<ol style="list-style-type: none"> 1. https://bop-iitk.vlabs.ac.in/exp/stefans-law/ 2. https://bop-iitk.vlabs.ac.in/exp/he-ne-laser-polarization/simulation.html 	I/I/CIVIL	Dr.N.Moorthy

4	PHYSICS	Dr.V.Karthikeyan	<ol style="list-style-type: none"> 1. Radiation with Temperature Change Using Stefan's Law 2. To study polarization of light using He-Ne Laser 	<ol style="list-style-type: none"> 1. iitk.vlabs.ac.in/exp/stefans-law/ 2. https://bop-iitk.vlabs.ac.in/exp/he-ne-laser-polarization/simulation.html 	I/I/EEE	Dr.N.Moorthy
5	PHYSICS	Mr.M.Prabaharan	<ol style="list-style-type: none"> 1. Radiation with Temperature Change Using Stefan's Law 2. To study polarization of light using He-Ne Laser 	<ol style="list-style-type: none"> 1. https://bop-iitk.vlabs.ac.in/exp/stefans-law/ 2. https://bop-iitk.vlabs.ac.in/exp/he-ne-laser-polarization/simulation.html 	I/I/MECH-A	Dr.N.Moorthy



Virtual lab coordinator

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E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS), NAGAPATTINAM
DEPARTMENT OF DEPARTMENT OF SCIENCE & HUMANITIES

2022-23 EVEN SEMESTER

VIRTUAL LAB EXPERIMENTS

S.No	Name of the Lab	Lab Coordinator	Experiment	Virtual Lab Link	Yr/Sem/Sec	Lab coordinator sign
1	Communication Skills Lab	K.Geetha V.Johnpaul	Reading Skill	https://ve-iitg.vlabs.ac.in/Experiments/rskills.wmv	III Year B.Tech-CSBS	
2	Communication Skills Lab	K.Geetha V.Johnpaul	Common Errors in English	https://ve-iitg.vlabs.ac.in/Experiments/commerror1.html	I year B.E-ECE-B	
3	Communication Skills Lab	K.Geetha V.Johnpaul	Arranging Sentences to form a paragraph	https://ve-iitg.vlabs.ac.in/Experiments/sentencejumble.html	I year B.E-ECE-B	
4	Communication Skills Lab	K.Geetha V.Johnpaul	Compound Words	https://ve-iitg.vlabs.ac.in/Experiments/synonym1.html	I year B.E-ECE-B	


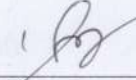






V. JOHN PAUL, M.A., M.Phil.,
Virtual lab coordinator
 Associate Professor of English
 Department of Science and Humanities
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 Nagapattinam.


Dr. (Mrs) S. THIRUMALA, M.A., M.Phil., Ph.D.,
 Assistant Professor & Addl. Head
 HoD
 Department of Science and Humanities
 E.G.S. Pillay Engineering College (Autonomous)
 Nagapattinam.

E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS), NAGAPATTINAM
DEPARTMENT OF SCIENCE AND HUMANITIES

2022-23 ODD SEMESTER

VIRTUAL LAB EXPERIMENTS

S.No	Name of the Lab	Lab Coordinator	Experiment	Virtual Lab Link	Yr/Sem/Sec	Lab coordinator sign
1	Engineering chemistry lab	Dr.C.Gopi	Effects of sample concentration Dependence of Absorbance (Beer Law)	https://ccnsb06-iiith.vlabs.ac.in/exp/spectroscopic-techniques/	I/I/Ece A	
2	Engineering chemistry lab	Dr.C.Gopi	Acid Base Titration	https://vlab.amrita.edu/index.php?sub=2&brch=193&sim=352&cnt=1	I/I/Ece A	
3	Engineering chemistry lab	Dr.S.Ponsadai lakshmi	Effects of sample concentration Dependence of Absorbance (Beer Law)	https://ccnsb06-iiith.vlabs.ac.in/exp/spectroscopic-techniques/	I/I/CSE A/ CSE B	
4	Engineering chemistry lab	Dr.S.Ponsadai lakshmi	Acid Base Titration	https://vlab.amrita.edu/index.php?sub=2&brch=193&sim=352&cnt=1	I/I/CSE A/CSE B	
5	Engineering chemistry lab	Dr.A.Charles	Effects of sample concentration Dependence of Absorbance (Beer Law)	https://ccnsb06-iiith.vlabs.ac.in/exp/spectroscopic-techniques/	I/I/IT/AID S	
6	Engineering chemistry lab	Dr.A.Charles	Acid Base Titration	https://vlab.amrita.edu/index.php?sub=2&brch=193&sim=352&cnt=1	I/I/IT/AIDS	
7	Engineering chemistry lab	Dr.P.Adwin Jose	Effects of sample concentration Dependence of Absorbance (Beer Law)	https://ccnsb06-iiith.vlabs.ac.in/exp/spectroscopic-techniques/	I/I/BME	

8	Engineering chemistry lab	Dr.P.Adwin Jose	Acid Base Titration	https://vlab.amrita.edu/index.php?sub=2&brch=193&sim=352&cnt=1	I/I/BME	<i>Plivity</i>
9	Engineering chemistry lab	Ms. I.Narchonai	Effects of sample concentration Dependence of Absorbance (Beer Law)	https://ccnsb06-iiith.vlabs.ac.in/exp/spectroscopic-techniques/	I/I/Ece B	<i>[Signature]</i>
10	Engineering chemistry lab	Ms.I.Narchonai	Acid Base Titration	https://vlab.amrita.edu/index.php?sub=2&brch=193&sim=352&cnt=1	I/I/Ece B.	<i>[Signature]</i>

[Signature]
Virtual lab coordinator

(Dr. C. GoPI)
Dr. C. GOPI, M.Sc., M.Phil., Ph.D.,
Associate Professor of Chemistry
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HOD

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