SYLLABUS/ CURRICULUM



PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

(Approved by AICTE & Affiliated to Anna University, Chennai)

Madurai - Sivagangai Highway, Arasanoor, Thirumansolai Post, Sivagangai Dt. - 630 561, Tamilnadu Mobile : 9842102628, 7373002628 Email: info@psyec.edu.in Website : www.psyec.edu.in

City Office: 10, Pandian Saraswathi St, Sivagami Nagar, Narayanapuram, Madural - 625 014. Telefax- 0452 2682338, Mobile: 98423-02628

DEPARTMENT OF CIVIL ENGINEERING

Academic Year 2019-2020

VACCE1920BL - Basic Lab Techniques and Protocols

OBJECTIVE OF THE COURSE

- To equipping students with foundational skills and knowledge essential for safe and effective laboratory work. The foremost objective is to install a thorough understanding of laboratory safety protocols.
- The techniques is emphasized, encompassing tasks such as accurate pipetting, measurement, mixing, and heating of substances, along with proficiency in handling common laboratory instruments like microscopes and spectrophotometers.

Chapter 1

Laboratory Safety and Protocols - essential safety measures, handling chemicals to emergency response procedures, robust foundation for subsequent lab work.

Chapter 2

safety protocols, Mastering Basic Laboratory Techniques. hands-on practice, learners would refine skills in pipetting, measurement, and instrument operation, gaining confidence in executing fundamental lab procedures accurately.

Chapter 3

Develop Analytical Skills, data analysis and interpretation. Exercises and experiments on discern patterns, identify outliers, and critical thinking abilities crucial for scientific inquiry.

Chapter 4

Chemical Handling and Waste Management, methods of responsible handling, storage, and disposal of laboratory chemicals. the principles of chemical safety and waste management - personal safety - environmental stewardship.

Chapter 5

Lab Experiments and Protocols, designing and executing their lab experiments - established protocols. hands-on approach fosters independence and creativity reinforcing the importance of meticulous planning experiments

Chapter 6

comprehensive grasp of laboratory safety protocols - confidently navigating potential hazards and emergencies.

TOTAL HOURS:35

Course-Coordinator

DAGIENT

PRINCIPAL



PANDIAN SARASWATHI YADAV

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DEPARTMENT OF CIVIL ENGINEERING

Academic Year 2019-2020

VACCE1920BL - Basic Lab Techniques and Protocols

Course Schedule

· Date	Time	TOPICS
		Laboratory Safety and Protocols - essential safety measures, handling chemicals to
09/02/2020	1.00 pm to 4.15 pm	emergency response procedures, robust foundation for subsequent lab work.
10/02/2020		safety protocols, Mastering Basic Laboratory Techniques. hands-on practice, learners would refine skills in pipetting, measurement, and instrument operation, gaining
		confidence in executing fundamental lab procedures accurately.
		Develop Analytical Skills, data analysis and interpretation. Exercises and experiments
11/02/2020	1.00 pm to 4.15 pm	on discern patterns, identify outliers, and critical thinking abilities crucial for scientific inquiry.
12/02/2020		Chemical Handling and Waste Management, methods of responsible handling,
		storage, and disposal of laboratory chemicals. the principles of chemical safety and waste management - personal safety - environmental stewardship.
13/02/2020		Lab Experiments and Protocols, designing and executing their lab experiments - established protocols. hands-on approach fosters independence and creativity
		reinforcing the importance of meticulous planning experiments
14/02/2020		comprehensive grasp of laboratory safety protocols - confidently navigating potential hazards and emergencies.
	1.00 pm to 4.15 pm	

Tea Break

: FN- 11:00 am to 11:15am & AN-03:00 pm to 03:15 pm

Total Hours:35

Lunch

: 12:15 pm to 01:00pm

Course-Coordinator



DIAN SARASWATHI YAI

(Approved by AICTE & Affiliated to Anna University, Chennai)

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DEPARTMENT OF CIVIL ENGINEERING

Academic Year 2019-2020

VACCE1920BL - Basic Lab Techniques and Protocols

One-page Report

Name of the course

: Basic Lab Techniques and Protocols

Development Course Code: VACCE1920BL

Course Coordinator

: Mrs.O. SHARMILA BEGUM

Date/Duration

: 09.02.2020 to 14.02.2020—35 hours

I here affirm that the third-year students of strength 53 have been taught the valueadded course tittle "Basic Lab Techniques and Protocols" as per the syllabus and completed within the stipulated time duration.

I confirm that the value-added course titled "Basic Lab Techniques and Protocols" has been conducted in the beginning of the semester and course delivery along with the attendance of the students was recorded.

I confirmed that all the students were actively participated in the course and the eligible students were certified for the course.

ASSESSMENT PROCEDURE

PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE, ARASANOOR -630561 DEPARTMENT OF CIVIL ENGINEERING

Academic Year 2019-2020

VACCE1920BL - Basic Lab Techniques and Protocols

· Assessment Questions with Answer

- 1. What is the primary purpose of LabVIEW?
- A) Graphic design
- B) Data analysis
- C) Web development
- D) Word processing
- 2. Which of the following is NOT a programming element in LabVIEW?
 - A) Sub VI
 - B) Cluster
 - C) Loop
 - D) Pixel
- 3. What does the term "SubVI" stand for in LabVIEW?
 - A) A virtual instrument
 - B) A subroutine VI
 - C) A subversion of VI
 - D) A subsidiary VI
- 4. Which programming paradigm does LabVIEW follow?
 - A) Object-oriented programming
 - B) Procedural programming
 - C) Functional programming
 - D) Graphical programming
- 5. What does a 'While Loop' do in LabVIEW?
 - A) Executes code repeatedly while a condition is true
 - B) Executes code a fixed number of times
 - C) Executes code only once
 - D) Executes code in parallel
- 6. What is the purpose of a 'Case Structure' in LabVIEW?
 - A) To select one of several sequences of code to execute
 - B) To create a circular reference
 - C) To measure voltage
 - D) To visualize data

- 7. Which of the following data types is NOT supported by LabVIEW?
 A) Integer
 B) Boolean
 C) String
 D) Float
- **8.** What does the term 'Front Panel' refer to in LabVIEW?
 - A) The part of the VI where the code is written
 - B) The part of the VI that displays the user interface
 - C) The part of the VI that connects to external devices
 - D) The part of the VI that executes code
- 9. Which of the following is NOT a tool for troubleshooting in LabVIEW?
 - A) Breakpoint
 - B) Probe
 - C) Multimeter
 - D) Highlight Execution
- 10. What does the abbreviation 'VI' stand for in LabVIEW?
 - A) Visual Integration
 - B) Virtual Interface
 - C) Voltage Indicator
 - D) Virtual Instrument

O. Sheonle bear

dinator HO

Principal

PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE, ARASANOOR -630561 DEPARTMENT OF CIVIL ENGINEERING

Academic Year 2019-2020

VACCE1920BL - Basic Lab Techniques and Protocols

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Assessment Test Paper
REGISTER NUMBER: 91.2017 103005
REGISTER NUMBER: 91.2017 103008 NAME OF THE STUDENT: Chandm. W
 1. What is the primary purpose of LabVIEW? A) Graphic design B) Data analysis C) Web development D) Word processing
 2. Which of the following is NOT a programming element in LabVIEW? A) SubVI B) Cluster C) Loop D) Pixel
3. What does the term "SubVI" stand for in LabVIEW? A) A virtual instrument B) A subroutine VI C) A subversion of VI D) A/subsidiary VI
 4. Which programming paradigm does LabVIEW follow? A) Object-oriented programming B) Procedural programming C) Functional programming D) Graphical programming
5. What does a 'While Loop' do in LabVIEW?

A) Executes code repeatedly while a condition is true

B) Executes code a fixed number of times

C) Executes code only once D) Executes code in parallel

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9. Which of the following is NOT a tool for troubleshooting in LabVIEW? A) Breakpoint B) Probe C) Multimeter D) Highlight Execution	
10. What does the abbreviation 'VI' stand for in LabVIEW? A) Visual Integration B) Virtual Interface C) Voltage Indicator D) Virtual Instrument	
O. Shamlebern Course Coordinator HOD Principal	

PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE, ARASANOOR 630561 DEPARTMENT OF CIVIL ENGINEERING

Academic Year 2019-2020

Student Performance Sheet

Duration of Course: 35 hours

Period of course: 69. 02.2020 to 14. 02.2020 Dura
VACCE1920BL- BASIC LAB TECHNIQUES AND PROTOCOLS

Sl. No	Register Number	Student Name	Assessment Marks
1	912017103001	ANAND G	91
2	912017103002	ANANTH T	96
3	912017103003	ANDIYAPPAN C	98
4	912017103004	ANUSHYA M	88
5	912017103005	ARUL MURUGAN R	91
6	912017103006	ARUNRAJ N	95
7	912017103007	ATCHAYA D	89
8	912017103008	CHANDRU K	90
9	912017103009	DHANAPRIYA D	92
10	912017103010	DINESH D	93
11	912017103011	DINESH KUMAR A	89
12	912017103013	JAYAKRISHNAPANDIYAN M	81
13	912017103014	JERLIN DEENA M	88
14	912017103015	KALEESHWARI M	79
15	912017103016	KANIMURUGAN R	82
16	912017103017	KANNAN M	83
17	912017103018	KARTHICK A	95
18	912017103019	KARUPPUSAMY S	96
19	912017103021	KRISHNA KUMAR D	98
20	912017103022	LOGESWARAN M	89
21	912017103023	MALAICHAMY G	82
22	912017103024	MUTHU ABISHEKA PRIYAN M	85
23	912017103025	NIKIL KANNAN A	86
24	912017103026	PANNEER PANDI M	89
25	912017103027	RANJITH K	92
26	912017103028	SABESH KARTHICK K	93

	T-		-
27	912017103029	SAKTHI BALAJI S	86
28	912017103030	SARAVANAN M	80
29	912017103031	SELVA B	91
30	912017103032	SETHUPATHI B	95
31	912017103033	SIVANESAN M	94
32	912017103034	SOWMIYA K	90
33	912017103035	THANGAMANI SP	98
34	912017103036	THINESH KUMAR M	91
35	912017103037	THIRUPATHI B	89
36	912017103038	THIRUPPATHI T	78
37	912017103039	ULAGANATHAN K	el.
38	912017103040	VARATHA MUNEES C	78
39	912017103041	VIJAYARAJAN V	70
40	912017103042	VIJAY BHARATHI S	21
41	912017103043	VINITH MS	AC
42	912017103301	ADAIKKALAPRAKASH A	Cb
43	912017103303	ELAYAPALLAVAN D	82
44	912017103304	JERALD DAVID G	69
45	912017103305	KASIVISWANATHAN SP	91
46	912017103306	PRATHIMANAN R	92
47	912017103307	PREM RAJAN DP	90
48	912017103308	RAMAKRISHNAN R	91
49	912017103309	SARAVANA PRAKASH C	98
50	912017103310	SHARMA J	ac
51	912017103701	ILAKKIYA M	92
52	912017103702	BALAKRISHNAN P	89
53	912017103703	MANI MARAN K	
			86

O Themaker Course Coordinator

HOD

Principal

Enrollment Student Name List

PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE, ARASANOOR 630561 DEPARTMENT OF CIVIL ENGINEERING

Academic Year 2019-2020

Student Registration Sheet

Period of course: 09.12. 2019 to 14.12.2019

Duration of Course: 35 hours

VACCE1920BL- BASIC LAB TECHNIQUES AND PROTOCOLS

Sl. No	Register Number	Student Name	Signature of the
1	912017103001	ANAND G	Student
2	912017103002	ANANTH T	Anonts
3	912017103003	ANDIYAPPAN C	T. NEN
4	912017103004		C. Andiyappar
5	912017103005		Anush
6	912017103006	ARUNRAJ N	2. Avul moragan
	912017103007		Andr
7		ATCHAYA D	ATChaya
8	912017103008	CHANDRU K	TK CHONDPU
9	912017103009	DHANAPRIYA D	DHAMARAMA-D
10	912017103010	DINESH D	Dr. W
11	912017103011	DINESH KUMAR A	Description
12	912017103013	JAYAKRISHNAPANDIYAN M	M. Tegakyishang
13	912017103014	JERLIN DEENA M	M. perlin dana
14	912017103015	KALEESHWARI M	0
15	912017103016	KANIMURUGAN R	P. LECSHWARIM
16	912017103017	KANNAN M	R. KANTHURUCTON
17	912017103018	KARTHICK A	harthick
18	912017103019	KARUPPUSAMY S	
19	912017103021	KRISHNA KUMAR D	Ly b abrished?
20	912017103022	LOGESWARAN M	D. Krishna leumas
21	912017103023	MALAICHAMY G	Locrestance
		MUTHU ABISHEKA PRIYAN	of malaisany
.2	912017103024	M	M. Mother Obsisher
3	912017103025	NIKIL KANNAN A	1 milyan
4	912017103026	PANNEER PANDI M	DA IVINUES
5	912017103027	RANJITH K	PANNE EI PANDIM
6	912017103028	SABESH KARTHICK K	K. SARRSH KARTAK
7	912017103029	SAKTHI BALAJI S	Salether,

8	912017103030	SARAVANAN M	M. Savaranan
9	912017103031	SELVA B	B. Shlip
0	912017103032	SETHUPATHI B	B. SETHUPATHI
1	912017103033	SIVANESAN M	M. STUBLOSION
2	912017103034	SOWMIYA K	Source A. le
33	912017103035	THANGAMANI SP	SP. Theirguman
34	912017103036	THINESH KUMAR M	THINESH Samer
35	912017103037	THIRUPATHI B	B. distillethi
36	912017103038	THIRUPPATHI T	T. Throppathi
37	912017103039	ULAGANATHAN K	4. uasherlan
38	912017103040	VARATHA MUNEES C	VARATHA MUNICESC
39	912017103041	VIJAYARAJAN V	V. VIJay Rosser
40	912017103042	VIJAY BHARATHI S	CUAYBHBRAD.S
41	912017103043	VINITH MS	ms. vinille
42	912017103301	ADAIKKALAPRAKASH A	D. DDAKKALAPRAG
43	912017103302	DANIEL DENSINGH S	DANNEL Dancing
44	912017103303	ELAYAPALLAVAN D	D. Eloyaballaton
45	912017103304	JERALD DAVID G	Of Terrala David
46	912017103305	KASIVISWANATHAN SP	KASILLEWANATHA
47	912017103306	PRATHIMANAN R	R. Plathimaron
48	912017103307	PREM RAJAN DP	Dp. Derson Rufit
49	912017103308	RAMAKRISHNAN R	P. AMAKRE SHAKN.
50	912017103309	SARAVANA PRAKASH C	C. Savara
51	912017103310	SHARMA J	J. Sherrona
52	912017103701	ILAKKIYA M	M. Ilakkiya
53	912017103702	BALAKRISHNAN P	BALAKRISHMAN.
54	912017103703	MANI MARAN K	k. Mani martan

Course Coordinator

STUDENTS ATTENDANCE

PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE, ARASANOOR 630561 DEPARTMENT OF CIVIL ENGINEERING

Academic Year 2019-2020

Student attendance Sheet

Duration of Course: 35 hours

Period of course: 09.12 2020 Student attendance Sneet

VACCE1920BL- BASIC LAB TECHNIQUES AND PROTOCOL

	Attendance Sheet Day 1 Day 2 Day 3 Day 1 Day 2 Day 3 D							
GI			Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
Sl. No	Register Number	Student Name	09.00 am - 04.15					
1	912017103001	ANAND G	pm 0	pm	pm	pm	pm	pm
2	912017103002	2 ANANTH T	And	And	And	And	and had	Ad
3	912017103003	ANDIYAPPAN C	Am	An	An	Hor	Asse	An
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5	912017103005		Amitel	AZNO	Aner	Ame	Anut	An
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6	912017103007		Lune	Arung	Lung	Dung	Dung	Drung
7		ATCHAYA D	Doch	Freh	Dal	Atus	Ale	Del
8	912017103008	CHANDRU K	Con	Ca	Can	Coc	G	
9	912017103009	DHANAPRIYA D	Dane	Dane	Dam	Pha	D	A
10	912017103010	DINESH D	Dina	Dih	Dha	Dih.	Din 7	Down
11	912017103011	DINESH KUMAR A	Dinyl	0 1	mi. 1		1	Dim
12	912017103013	JAYAKRISHNAPANDIYAN M	En .	Jose	Fre	Finish	Dinesh	Durch
13	912017103014	JERLIN DEENA M	Jenin	Jeenlin	Jarcia	Larvin		
14	912017103015	KALEESHWARI M	War	ma	V	31	Jerlin	Junin
15	912017103016	KANIMURUGAN R	1	0	Anc	Mar	Mose	Ma
16	912017103017	KANNAN M	Can Kenn	yeun!	eans .	bain	1	sour)
17	912017103018	KARTHICK A	h h	Kom	Kam &	C. I	Kan	Kan
18	912017103019	KARUPPUSAMY S	Karlin	1 Som	denthi	Rayon	Bartin	Varlei
19	912017103021	KRISHNA KUMAR D	Rus	Wasz	Vee	nn	Kos	War
20	912017103022	LOGESWARAN M	Ansh	Just	ansh	lenss	fush	lende
21	912017103023	MALAICHAMY G	legather	11	Xagorin la	Josh .	Jogeth	logest
22	912017103024	MUTHU ABISHEKA PRIYAN M	Node	unt with	Ment,	wh.	hu wit	the
3	912017103025	NIKIL KANNAN A	5	(16)	ton t			~
4	912017103026	PANNEER PANDI M	Bon	B	Ba	a la	W	Ø R
5	912017103027	RANJITH K	Pm	Por	L'es	ph	pr	12
6	912017103028	SABESH KARTHICK K	Summer	The state of	Ryan R	and i	Regn.	Ray .

27	912017103029	SAKTHI BALAJI S	sort	Smil	S	SM	S	<u>C</u> -
28	912017103030	SARAVANAN M	M. Soul.	Msaul.	Moul	Moul	Ment	Meseur.
29	912017103031	SELVA B	Delra	Solue o	Solia	Solva o	Salva	Selva
30	912017103032	SETHUPATHI B	Colle	all	Sellm	celh	Selh	seh
31	912017103033	SIVANESAN M	Manif.	Msml	Miserd.	Men (phisnel	fler
32	912017103034	SOWMIYA K	3 ourmin	30 mm iga	Soumiza	Sowniya	Sowniya	Bouniya
33	912017103035	THANGAMANI SP	Englin	Pur	Thur	Thin	The	The
34	912017103036	THINESH KUMAR M	Kumer	Jan	Kuli	lion	Jus	Kerns
35	912017103037	THIRUPATHI B	Tim	Por	Thew	The	Err	To
36	912017103038	THIRUPPATHI T	Total.	Thebo	Burk	That	This	Oliver_
37	912017103039	ULAGANATHAN K	uly 1	elog	uly	Lew	why	my
38	912017103040	VARATHA MUNEES C	vora	vara	voxa	was	NOVA	revo
39	912017103041	VIJAYARAJAN V	Meas	Sam	Uge	Vis	SI	ya
40	912017103042	VIJAY BHARATHI S	8. Vilan	3. Vijer	3 wyon	guja.	8 my	Bun
41	912017103043	VINITH MS	VHL	vith	vithe	vithe	vite	vian
42	912017103301	ADAIKKALAPRAKASH A	Provide	Qualesh	prouch	Bark	provid	Pravio
43	912017103302	DANIEL DENSINGH S	AB	AB,	AB	AB	AB	AB
44	912017103303	ELAYAPALLAVAN D	Pund.	Dang.	Durd	Dont	Don't	Down
45	912017103304	JERALD DAVID G	In	Fr	For	F	Tx	I
46	912017103305	KASIVISWANATHAN SP	Cast	Kari	wsi	Vasi	Kasi	Kasi
47	912017103306	PRATHIMANAN R	Program	Porla	Port	Part-	Pat	Pra
48	912017103307	PREM RAJAN DP	Den	July .	Dofur	2 Pm	D. Peur	and.
49	912017103308	RAMAKRISHNAN R	Borne	Vame	Ramo	lama	Roman	Veno
50	912017103309	SARAVANA PRAKASH C	C. Roder.	c. Ruch	Charles	C-Brook	(Pew)	Cla
51	912017103310	SHARMA J	22	Sa	82	S	Sh	2
52	912017103701	ILAKKIYA M	Praleiry	Desterk	Breddis	Galery	balling	Xtown &
53	912017103702	BALAKRISHNAN P	a. P. Kal	PROU	B.R.	1	B.R.	Roller
54	912017103703	MANI MARAN K	Manny	Nun	mark	none	Marov	Mari

Tea Break

: FN- 11:00 am to 11:15am & AN-03:00 pm to 03:15 pm : 12:15 pm to 01:00pm

Lunch

Course Coordinator

MODEL CERTIFICATES

PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

Approved by AICTE & Affiated to Anna University, Chennai. Arasanoor, Thirumansolai Post, Sivagangai – Madurai Highway, Tamilnadu - 630 561

Value added course on

Basic Lab Techniques and Protocols

Organized by

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to Certify that	om third year	students has
participated in the value-added course on Basic Lab Te	echniques ar	od Dratasais
by the Department of Civil Engineering from 09.02.2020	to 14 02 2020	(35 Hours) at
Pandian Saraswathi Yadav Engineering College, Sivagang	ıai.	

Dr. MEENAKSHI SUDARVIZHI
HOD

Dr. R. RAJA PRINICIPAL

PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

Approved by AICTE & Affiated to Anna University, Chennai. Arasanoor, Thirumansolai Post, Sivagangai – Madurai Highway, Tamilnadu - 630 561

Value added course on

Basic Lab Techniques and Protocols

Organized by

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to Certify that M. KANNAN	from third year students has
participated in the value-added course on Basic Lak	Techniques and Protocols
by the Department of Civil Engineering from 09.02.20	020 to 14.02.2020 (35 Hours) at
Pandian Saraswathi Yadav Engineering College, Sivago	ingai.

Dr. MEENAKSHI SUDARVIZHI

HOD

Dr. R. RAJA PRINICIPAL

PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

Approved by AICTE & Affiated to Anna University, Chennai. Arasanoor, Thirumansolai Post, Sivagangai – Madurai Highway, Tamilnadu - 630 561

Value added course on

Basic Lab Techniques and Protocols

Organized by

DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to Certify that	from third year at
by the Department of Civil Engineering from 19 12 20	Techniques and Protocols
Pandian Saraswathi Yadav Engineering College, Sivaga	ngai.

Dr. MEENAKSHI SUDARVIZHI

HOD

Dr. R. RAJA PRINICIPAL