VINAYAKA MISSION'S
RESEARCH FOUNDATION
(Deemed to be University under section 3 of the UGC Act 1956)

VALUE ADDED COURSES NOTIFICATION - I

ACADEMIC YEAR : 2024-2025

Aarupadai Veedu Institute of Technology, Paiyanoor would like to notify the following Value Added Courses under the Faculty of Biomedical Engineering for the Academic Year 2024-25.Value Added Courses are aimed to enhance the life and transferable skills of the students and thereby improve employability. These courses are optional and taught out of the regular teaching hours. An assessment is done at the end of the course and successful students will receive a certificate from the University. These courses are provided absolutely free of cost.

List of Courses

S.No	Course Code	Name of the Course	Hours of Study
1.	VA190	OPERATION TESTING OF MEDICAL EQUIPMENT	16
2.	VA191	SIMULATION OPEN FRAMEWORK ARCHITECTURE	16
3.	VA192	INTRODUCTION TO WEKA	16

Students who are interested in Enrollment can contact the Value added course coordinator of our institution and apply for the same.

Dr. Prasath Alias Surendhar S.
Associate Professor & Value Added Course Coordinator, BME
Aarupadai Veedu Institute of Technology.
Mobile: 8754581937
Email: prasath.bme@avit.ac.in

LAST DATE FOR ENROLLMENT: 13.09.2024

HoD

Vice Principal(Academics)

Head of the Institution

VINAYAKA MISSION'S
RESEARCH FOUNDATION
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AVIT
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY

DEPARTMENTOF BIOMEDICAL ENGINEERING

VALUE ADDED COURSE

Course Code	:	VA191	**Duration**	:	16 Hours
Course Name	:	SIMULATION OPEN FRAMEWORK ARCHITECTURE	**Commencement**	:	September 2024

Course Content

- 2D & 3D visualization
- Image Segmentation Techniques
- Loading & Rendering of DICOM

LAST DATE FOR ENROLLMENT: 14.09.24

COURSE IS ABSOLUTELY FREE

For Details Contact :
Dr.Prasath S.
Associate Professor
Department of Biomedical Engineering
Mobile: 8754581937
Email: prasath.bme@avit.ac.in

Aarupadai Veedu Institute of Technology
Vinayaka Mission's Research Foundation
(Deemed to be University)
Address: Vinayaka Nagar, Old Mahabalipuram Road,
Paiyanoor,Chengalpattu District, Chennai- 603
104,Tamil Nadu, India.

AVIT
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY

Cordially invites you all for Inauguration of value added course on

VA191-Simulation
Open Framework Architecture

Resource Persons

Mr. V.Prabhakaran
Assistant Professor (Sr.G-II)
Department of Biomedical Engineering

Ms. R.Sandhiya
Assistant Professor
Department of Biomedical Engineering

21.09.2024 **TBT103 (Smart Room)**

VINAYAKA MISSION'S RESEARCH FOUNDATION
(Deemed to be University under section 3 of the UGC Act 1956)

Organized by
Department of Biomedical Engineering

AVIT
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY

VINAYAKA MISSION'S RESEARCH FOUNDATION
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NAAC

CIRCULAR

Ref No:2024-2025/ODD/VAC/03 Date:20.08.2024

The Department of Biomedical Engineering is conducting a Value-Added Course on "VA191-SIMULATION OPEN FRAMEWORK ARCHITECTUR" from 21.09.2024 to 05.10.2024. All the second and third year students of Biomedical Engineering are requested to register and attend the course.

The invitation is herewith attached.

HOD

Circulated to:	All the faculty members All the students
Copy to	Principal Office Department Notice Board

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VINAYAKA MISSION'S RESEARCH FOUNDATION
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Value added courses 2024-25

Student Registration Form

Form No: VAC / 24-25/ ODD/

Date of Registration: 13/09/2024

Name of the Student (Capitals)	CHHOTU-KUMAR				
Name of the Parent /Guardian	RAM VILASH PANDIT				
Email ID of Student	shivaraj0122750@gmail.com				
Mobile Number (WhatsApp)	9334364305				
Register Number	353221050S	**Year**	3rd Year	**Semester**	V
Department	BE - Biomedical Engineering				
Have you ever completed any Value added courses offered by VMRF				Yes	No ✓
If yes, Kindly provide the details of value added course completed (Course Code & Name, Period of completion, Certificate Number if any)					

Registration of Value added Courses		
Course Code	**Course Title**	**Department & Institution offering the course**
VA191	Stimulation open frame work architecture	Biomedical Engg

Note: Value Added courses can be chosen from any Institution of VMRF-DU.

For More Details, kindly visit https://vmrfdu.edu.in/value_added_programmes.php

Declaration:

1. I CHHOTU-KUMAR assure that the information furnished above is true to the best of my knowledge.
2. I abide by the rules and regulations for completing the course.

Chhotu Kumar
Signature of the Student

VAC- Incharge (Dept)

Head of the Department

D. Parani
VAC Coordinator- AVIT

VP-Academics

Head of the Institution

AVIT
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY

VINAYAKA MISSION'S RESEARCH FOUNDATION
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NAAC

DSIR RECOGNIZED

Value added courses 2024-25

Student Registration Form

Form No: VAC 191 /24-25/ ODD/

Date of Registration: 13/09/2024

Name of the Student (Capitals)	DHIRAJ KUMAR				
Name of the Parent /Guardian	DEVENDRA CHAUDHARI				
Email ID of Student	dk6003959@gmail.com				
Mobile Number (WhatsApp)	9334495329				
Register Number	3532210503	**Year**	IIIrd Year	**Semester**	5th Sem
Department	BIOMEDICAL ENGINEERING				
Have you ever completed any Value added courses offered by VMRF				Yes	No ✓
If yes, Kindly provide the details of value added course completed (Course Code & Name, Period of completion, Certificate Number if any)					

Registration of Value added Courses		
Course Code	**Course Title**	**Department & Institution offering the course**
VA191	simulation open framework Architecture	Biomedical eng.

Note: Value Added courses can be chosen from any Institution of VMRF-DU.

For More Details, kindly visit https://vmrfdu.edu.in/value_added_programmes.php

Declaration:

1. I Dhiraj Kumar assure that the information furnished above is true to the best of my knowledge.
2. I abide by the rules and regulations for completing the course.

Dhiraj
Signature of the Student

VAC- Incharge (Dept)

Head of the Department

D. Para
VAC Coordinator- AVIT

VP-Academics

Head of the Institution

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AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY

VINAYAKA MISSION'S RESEARCH FOUNDATION
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Value added courses 2024-25

Student Registration Form

Form No: VAC/9 / 24-25/ ODD/

Date of Registration: 13/9/2024

Name of the Student (Capitals)	DIVYA BHARTI				
Name of the Parent /Guardian	DINESH SINGH				
Email ID of Student	divya8249009@gmail.com				
Mobile Number (WhatsApp)	6207974963				
Register Number	353221050 4	**Year**	3rd Year	**Semester**	V
Department	Biomedical ENGINEERING				
Have you ever completed any Value added courses offered by VMRF				Yes	No
If yes, Kindly provide the details of value added course completed (Course Code & Name, Period of completion, Certificate Number if any)					

Registration of Value added Courses		
Course Code	**Course Title**	**Department & Institution offering the course**
VAC91	Simulation open framework architecture	Biomedical engineering

Note: Value Added courses can be chosen from any Institution of VMRF-DU.

For More Details, kindly visit https://vmrfdu.edu.in/value_added_programmes.php

Declaration:

1. I Divya Bharti assure that the information furnished above is true to the best of my knowledge.
2. I abide by the rules and regulations for completing the course.

Divya Bharti
Signature of the Student

VAC- Incharge (Dept)

Head of the Department

D. Para
VAC Coordinator- AVIT

VP-Academics

Head of the Institution

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AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY

VINAYAKA MISSION'S RESEARCH FOUNDATION
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Value added courses 2024-25

Student Registration Form

Form No: VAC 191 / 24-25/ ODD/

Date of Registration: 13/09/2024

Name of the Student (Capitals)	ELUMALAI. M				
Name of the Parent /Guardian	MANIVEL. N				
Email ID of Student	7HILLS5200@gmail.com				
Mobile Number (WhatsApp)	9360786211				
Register Number	35322105O5	**Year**	IV	**Semester**	V
Department	BIO MEDICAL ENGINEERING				
Have you ever completed any Value added courses offered by VMRF				Yes	No ✓
If yes, Kindly provide the details of value added course completed (Course Code & Name, Period of completion, Certificate Number if any)					

Registration of Value added Courses		
Course Code	**Course Title**	**Department & Institution offering the course**
VC191	SIMULATION OPEN FRAMEWORK ARCHITECTURE	BIO MEDICAL ENGINEERING

Note: Value Added courses can be chosen from any Institution of VMRF-DU.

For More Details, kindly visit https://vmrfdu.edu.in/value_added_programmes.php

Declaration:

1. I ELUMALAI. M M. assure that the information furnished above is true to the best of my knowledge.
2. I abide by the rules and regulations for completing the course.

Signature of the Student

VAC- Incharge (Dept)

Head of the Department

D. Para
VAC Coordinator- AVIT

VP-Academics

Head of the Institution

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Value added courses 2024-25

Student Registration Form

Form No: VAC 191 / 24-25/ ODD/

Date of Registration:

Name of the Student (Capitals)	GOTHANDARAMAN. D				
Name of the Parent /Guardian	DHAYALAN. B				
Email ID of Student	godhandaraman49@gmail.com				
Mobile Number (WhatsApp)	9342575233				
Register Number	3532210506	**Year**	III	**Semester**	V
Department	BIO MEDICAL ENGINEERING				
Have you ever completed any Value added courses offered by VMRF				Yes	No ✓
If yes, Kindly provide the details of value added course completed (Course Code & Name, Period of completion, Certificate Number if any)					

Registration of Value added Courses		
Course Code	**Course Title**	**Department & Institution offering the course**
VA191	SIMULATION OPEN FRAME WORK ARCHITECTURE	BIOMEDICAL

Note: Value Added courses can be chosen from any Institution of VMRF-DU.

For More Details, kindly visit https://vmrfdu.edu.in/value_added_programmes.php

Declaration:

1. I GOTHANDARAMAN D assure that the information furnished above is true to the best of my knowledge.
2. I abide by the rules and regulations for completing the course.

godhandaraman D
Signature of the Student

VAC- Incharge (Dept)

Head of the Department

D. Paran.
VAC Coordinator- AVIT

VP-Academics

Head of the Institution

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AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY

VINAYAKA MISSION'S RESEARCH FOUNDATION
Deemed to be University under section 3 of the UGC Act 19

Value added courses 2024-25

Student Registration Form

Form No: VAC 191 / 24-25/ ODD/

Date of Registration: 13-09-2024

Name of the Student (Capitals)	HIRA PARVEEN. S				
Name of the Parent /Guardian	CHANMA. S				
Email ID of Student	rihasamsudeen@gmail.com				
Mobile Number (WhatsApp)	9003810138				
Register Number	953221050 7	**Year**	III rd YEAR	**Semester**	V th SEM
Department	BIOMEDICAL ENGINEERING.				
Have you ever completed any Value added courses offered by VMRF				Yes	No ✓
If yes, Kindly provide the details of value added course completed (Course Code & Name, Period of completion, Certificate Number if any)					

Registration of Value added Courses		
Course Code	**Course Title**	**Department & Institution offering the course**
VA191	SIMULATION OPEN FRAMEWORK ARCHITECTURE	BIOMEDICAL ENGINEERING

Note: Value Added courses can be chosen from any Institution of VMRF-DU.

For More Details, kindly visit https://vmrfdu.edu.in/value_added_programmes.php

Declaration:

1. I HIRA PARVEEN. S assure that the information furnished above is true to the best of my knowledge.
2. I abide by the rules and regulations for completing the course.

S. Hira.
Signature of the Student

VAC- Incharge (Dept)

Head of the Department

D. Para.
VAC Coordinator- AVIT

VP-Academics

Head of the Institution

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AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY

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Deemed to be University under section 3 of the UGC Act 1956

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Value added courses 2024-25

Student Registration Form

Form No: VAC / 91 / 24-25/ ODD/

Date of Registration: 13/09/2024

Name of the Student (Capitals)	LAXMAN RAY				
Name of the Parent /Guardian	DEV SHARAN RAY				
Email ID of Student	laxmanray677@gmail.com				
Mobile Number (WhatsApp)	7482002448				
Register Number	353221050 8	**Year**	3rd	**Semester**	5th
Department	BIOMEDICAL ENGINEERING				
Have you ever completed any Value added courses offered by VMRF				Yes	No ✓
If yes, Kindly provide the details of value added course completed (Course Code & Name, Period of completion, Certificate Number if any)					

Registration of Value added Courses		
Course Code	**Course Title**	**Department & Institution offering the course**
VA191	SIMULATION OPEN FRAMEWORK ARCHITECTURE	BIOMEDICAL ENG.

Note: Value Added courses can be chosen from any Institution of VMRF-DU.

For More Details, kindly visit https://vmrfdu.edu.in/value_added_programmes.php

Declaration:

1. I LAXMAN RAY assure that the information furnished above is true to the best of my knowledge.
2. I abide by the rules and regulations for completing the course.

Laxmanray
Signature of the Student

VAC- Incharge (Dept)

Head of the Department

D. Para
VAC Coordinator- AVIT

VP-Academics

Head of the Institution

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Deemed to be University under section 3 of the UGC Act 1956

Value added courses 2024-25

Student Registration Form

Form No: VAC 191 / 24-25/ ODD/

Date of Registration: 13.09.2024

Name of the Student (Capitals)	NANDHINI.A				
Name of the Parent /Guardian	ANBAZHAGAN.S				
Email ID of Student	nandhinia540@gmail.com				
Mobile Number (WhatsApp)	9042368043				
Register Number	3532210509	**Year**	IIIrd year	**Semester**	Vth
Department	BIOMEDICAL ENGINEERING				
Have you ever completed any Value added courses offered by VMRF				Yes	No ✓
If yes, Kindly provide the details of value added course completed (Course Code & Name, Period of completion, Certificate Number if any)	–				

Registration of Value added Courses		
Course Code	**Course Title**	**Department & Institution offering the course**
VA191	SIMULATION OPEN FRAMEWORK ARCHITECTURE [SOFA]	BIOMEDICAL ENGINEERING

Note: Value Added courses can be chosen from any Institution of VMRF-DU.

For More Details, kindly visit https://vmrfdu.edu.in/value_added_programmes.php

Declaration:

1. I NANDHINI.A assure that the information furnished above is true to the best of my knowledge.
2. I abide by the rules and regulations for completing the course.

Signature of the Student

VAC- Incharge (Dept)

Head of the Department

D. Para
VAC Coordinator- AVIT

VP-Academics

Head of the Institution

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Value added courses 2024-25

Student Registration Form

Form No: VAC/98 / 24-25/ ODD/

Date of Registration: 13/9/2024

Name of the Student (Capitals)	PREMLATA KUMARI				
Name of the Parent /Guardian	RAM PRAVESH SINGH				
Email ID of Student	Premlatakri2021@gmail.com				
Mobile Number (WhatsApp)	6200034727				
Register Number	953221051l	**Year**	IIIrd year	**Semester**	Vth Sem
Department	BIO MEDICAL ENGINEERING				
Have you ever completed any Value added courses offered by VMRF			Yes	No	
If yes, Kindly provide the details of value added course completed (Course Code & Name, Period of completion, Certificate Number if any)					

Registration of Value added Courses		
Course Code	**Course Title**	**Department & Institution offering the course**
VA191	SIMULATION OPEN FRAMEWORK ARCHITECTURE	BIO MEDICAL ENGINEERING

Note: Value Added courses can be chosen from any Institution of VMRF-DU.

For More Details, kindly visit https://vmrfdu.edu.in/value_added_programmes.php

Declaration:

1. I PREMLATA KUMARI assure that the information furnished above is true to the best of my knowledge.
2. I abide by the rules and regulations for completing the course.

PK
Signature of the Student

VAC- Incharge (Dept)

Head of the Department

D. Para
VAC Coordinator- AVIT

VP-Academics

Head of the Institution

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VINAYAKA MISSION'S RESEARCH FOUNDATION
Deemed to be University under section 3 of the UGC Act 1956

Value added courses 2024-25

Student Registration Form

Form No: VAC 191 / 24-25/ ODD/

Date of Registration: 13/09/2024

Name of the Student (Capitals)	RAJAGANAPATHY. R				
Name of the Parent /Guardian	RAMESH. K				
Email ID of Student	rajaganapathi2449@gmail.com				
Mobile Number (WhatsApp)	9361330335				
Register Number	35322-10512	**Year**	III - rd	**Semester**	V - th
Department	BIOMEDICAL ENGINEERING				
Have you ever completed any Value added courses offered by VMRF				Yes	No ✓
If yes, Kindly provide the details of value added course completed (Course Code & Name, Period of completion, Certificate Number if any)					

Registration of Value added Courses		
Course Code	**Course Title**	**Department & Institution offering the course**
VA191	SIMULATION OPEN FRAME WORK ARCHITECTURE	BIOMEDICAL

Note: Value Added courses can be chosen from any Institution of VMRF-DU.

For More Details, kindly visit https://vmrfdu.edu.in/value_added_programmes.php

Declaration:

1. I RAJAGANAPATHY. R assure that the information furnished above is true to the best of my knowledge.
2. I abide by the rules and regulations for completing the course.

Signature of the Student

VAC- Incharge (Dept)

Head of the Department

D. Payar
VAC Coordinator- AVIT

VP-Academies

Head of the Institution

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AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY

VINAYAKA MISSION'S RESEARCH FOUNDATION
Deemed to be University, under section 3 of the UGC Act 1956

Value added courses 2024-25

Student Registration Form

Form No: VAC191 / 24-25/ ODD/

Date of Registration: 13.09.2024

Name of the Student (Capitals)	SANJAY.T				
Name of the Parent /Guardian	THIRUMURUGAN.V				
Email ID of Student	Sanjaythias@gmail.com				
Mobile Number (WhatsApp)	8754325808				
Register Number	353221051 4	**Year**	III rd year.	**Semester**	V th sem.
Department					
Have you ever completed any Value added courses offered by VMRF			Yes	No ✓	
If yes, Kindly provide the details of value added course completed (Course Code & Name, Period of completion, Certificate Number if any)					

Registration of Value added Courses		
Course Code	**Course Title**	**Department & Institution offering the course**
VA191	STIMULATION OPEN FRAMEWORK ARCHITECTURE	BIOMEDICAL ENGINEERING

Note: Value Added courses can be chosen from any Institution of VMRF-DU.

For More Details, kindly visit https://vmrfdu.edu.in/value_added_programmes.php

Declaration:

1. I SANJAY assure that the information furnished above is true to the best of my knowledge.
2. I abide by the rules and regulations for completing the course.

Signature of the Student

VAC- Incharge (Dept)

Head of the Department

D. Para
VAC Coordinator- AVIT

VP-Academics

Head of the Institution

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NAAC

DSIR

Value added courses 2024-25

Student Registration Form

Form No: VAC 191 / 24-25/ ODD/

Date of Registration: 13.09.2024

Name of the Student (Capitals)	SIVABALAN.S				
Name of the Parent /Guardian	SUKUMAR. S				
Email ID of Student	SSiva03137I@gmail.com				
Mobile Number (WhatsApp)	7708531990				
Register Number	3539210517	**Year**	IIIrd year	**Semester**	Vth Sem
Department	BIOMEDICAL ENGINEERING.				
Have you ever completed any Value added courses offered by VMRF				Yes	No ✓
If yes, Kindly provide the details of value added course completed (Course Code & Name, Period of completion, Certificate Number if any)					

Registration of Value added Courses		
Course Code	**Course Title**	**Department & Institution offering the course**
VA191	SIMULATION OPEN FRAMEWORK ARCHITECTURE	BIOMEDICAL ENGINEERING.

Note: Value Added courses can be chosen from any Institution of VMRF-DU.

For More Details, kindly visit https://vmrfdu.edu.in/value_added_programmes.php

Declaration:

1. I SIVABALAN. S assure that the information furnished above is true to the best of my knowledge.
2. I abide by the rules and regulations for completing the course.

Signature of the Student

VAC- Incharge (Dept)

Head of the Department

D. Para
VAC Coordinator- AVIT

VP-Academics

Head of the Institution

AVIT
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY

VINAYAKA MISSION'S RESEARCH FOUNDATION
Deemed to be University under section 3 of the UGC Act 1956

Value added courses 2024-25

Student Registration Form

Form No: VAC 191 /24-25/ ODD/

Date of Registration: 13/09/2024

Name of the Student (Capitals)	SONU KUMAR				
Name of the Parent /Guardian	GANESH SAH				
Email ID of Student	Sonukhushi9955@gmail.Com				
Mobile Number (WhatsApp)	7858835417				
Register Number	3532210518	**Year**	3rd year	**Semester**	V Sem
Department	BIO-MEDICAL				
Have you ever completed any Value added courses offered by VMRF				Yes	No ✓
If yes, Kindly provide the details of value added course completed (Course Code & Name, Period of completion, Certificate Number if any)					

Registration of Value added Courses		
Course Code	**Course Title**	**Department & Institution offering the course**
VA191	Simulation Open-Framework Architecture	Bio-Medical Eng.

Note: Value Added courses can be chosen from any Institution of VMRF-DU.

For More Details, kindly visit https://vmrfdu.edu.in/value_added_programmes.php

Declaration:

1. I SONU KUMAR assure that the information furnished above is true to the best of my knowledge.
2. I abide by the rules and regulations for completing the course.

Signature of the Student

VAC- Incharge (Dept)

Head of the Department

VAC Coordinator- AVIT

VP-Academics

Head of the Institution

AVIT
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY

VINAYAKA MISSION'S RESEARCH FOUNDATION
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DSIR

Value added courses 2024-25

Student Registration Form

Form No: VAC 191 / 24-25/ ODD/

Date of Registration: 13-9-2024

Name of the Student (Capitals)	VELMURUGAN.M				
Name of the Parent /Guardian	MURUGESAN.K				
Email ID of Student	Velmurugesan154@gmail.com				
Mobile Number (WhatsApp)	8489165677				
Register Number	353221051 9	**Year**	IIIRd YEAR	**Semester**	Vth sem
Department	BIOMEDICAL ENGINEERING				
Have you ever completed any Value added courses offered by VMRF				Yes	No ✓
If yes, Kindly provide the details of value added course completed (Course Code & Name, Period of completion, Certificate Number if any)					

Registration of Value added Courses		
Course Code	**Course Title**	**Department & Institution offering the course**
VA191	SIMULATION OPEN FRAMWORK ARCHTEHER	BIOMEDICAL ENGINEERING

Note: Value Added courses can be chosen from any Institution of VMRF-DU.

For More Details, kindly visit https://vmrfdu.edu.in/value_added_programmes.php

Declaration:

1. I VEL MURUGAN.M assure that the information furnished above is true to the best of my knowledge.
2. I abide by the rules and regulations for completing the course.

Signature of the Student

VAC- Incharge (Dept)

Head of the Department

VAC Coordinator- AVIT

VP-Academics

Head of the Institution

AVIT
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY

VINAYAKA MISSION'S RESEARCH FOUNDATION
Deemed to be University under section 3 of the UGC Act 1956

NAAC

DSIR RECOGNIZED

Value added courses 2024-25

Student Registration Form

Form No: VAC 191 / 24-25/ ODD/

Date of Registration: 13-09-2024

Name of the Student (Capitals)	LAKSHMI·V				
Name of the Parent /Guardian	ANKAMMA·V				
Email ID of Student	vinjamurulakshmi@gmail.com				
Mobile Number (WhatsApp)	9704578863				
Register Number	35322210520	**Year**	III rd	**Semester**	V
Department	BIOMEDICAL ENGINEERING				
Have you ever completed any Value added courses offered by VMRF				Yes	No ✓
If yes, Kindly provide the details of value added course completed (Course Code & Name, Period of completion, Certificate Number if any)					

Registration of Value added Courses		
Course Code	**Course Title**	**Department & Institution offering the course**
VA191	SIMULATION OPEN FRAMEWORK ARCHITECTURE (SOFA)	BIOMEDICAL ENGINEERING

Note: Value Added courses can be chosen from any Institution of VMRF-DU.

For More Details, kindly visit https://vmrfdu.edu.in/value_added_programmes.php

Declaration:

1. I V·LAKSHMI assure that the information furnished above is true to the best of my knowledge.
2. I abide by the rules and regulations for completing the course.

V·Lakshmi
Signature of the Student

VAC- Incharge (Dept)

Head of the Department

D. Para
VAC Coordinator- AVIT

VP-Academics

Head of the Institution

AVIT
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY

VINAYAKA MISSION'S RESEARCH FOUNDATION
Deemed to be University under section 3 of the UGC Act 1956

Value added courses 2024-25

Student Registration Form

Form No: VAC 191 / 24-25/ ODD/

Date of Registration: 13/09/2024

Name of the Student (Capitals)	DILLI AKASH G				
Name of the Parent /Guardian	GNANAVEL P				
Email ID of Student	dilliakash06@gmail.com				
Mobile Number (WhatsApp)	9176834329				
Register Number	3532113505	**Year**	III rd	**Semester**	V th
Department	BIO MEDICAL ENGINEERING				
Have you ever completed any Value added courses offered by VMRF				Yes	No ✓
If yes, Kindly provide the details of value added course completed (Course Code & Name, Period of completion, Certificate Number if any)					

Registration of Value added Courses		
Course Code	**Course Title**	**Department & Institution offering the course**
VA191	SIMULATION OPEN FRAMEWORK ARCHITETURE	BIOMEDICAL ENGINEERING

Note: Value Added courses can be chosen from any Institution of VMRF-DU.

For More Details, kindly visit https://vmrfdu.edu.in/value_added_programmes.php

Declaration:

1. I DILLI AKASH.G G.D assure that the information furnished above is true to the best of my knowledge.
2. I abide by the rules and regulations for completing the course.

G.D

Signature of the Student

VAC- Incharge (Dept)

Head of the Department

D. Para

VAC Coordinator- AVIT

VP-Academics

Head of the Institution

AVIT
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY

VINAYAKA MISSION'S RESEARCH FOUNDATION
Deemed to be University under section 3 of the UGC Act 1956

NAAC A

DSIR RECOGNIZED

Value added courses 2024-25

Student Registration Form

Form No: VAC 191 / 24-25/ ODD/

Date of Registration: 13/09/2024

Name of the Student (Capitals)	VIGNESHWARAN J				
Name of the Parent /Guardian	JAYAMURUGAN P				
Email ID of Student	VICKYDHONI463@gmail.com				
Mobile Number (WhatsApp)	6383269524				
Register Number	24BMET001	**Year**	III yd	**Semester**	V th
Department					
Have you ever completed any Value added courses offered by VMRF				Yes	No ✓
If yes, Kindly provide the details of value added course completed (Course Code & Name, Period of completion, Certificate Number if any)					

Registration of Value added Courses		
Course Code	**Course Title**	**Department & Institution offering the course**
VA191	SIMULATION OPEN FRAME WORK ARCHITECTURE	BIOMEDICAL

Note: Value Added courses can be chosen from any Institution of VMRF-DU.

For More Details, kindly visit https://vmrfdu.edu.in/value_added_programmes.php

Declaration:

1. I VIGNESHWARAN J assure that the information furnished above is true to the best of my knowledge.
2. I abide by the rules and regulations for completing the course.

Signature of the Student

VAC- Incharge (Dept)

Head of the Department

VAC Coordinator- AVIT

VP-Academics

Head of the Institution

AVIT — VINAYAKA MISSION'S RESEARCH FOUNDATION — NAAC

DEPARTMENT OF BIOMEDICAL ENGINEERING

VALUE ADDED COURSE

ACADEMIC YEAR : 2024-2025

VA191-SIMULATION OPEN FRAMEWORK ARCHITECTURE

ENROLLED STUDENT LIST

SL NO	REG NO	NAME	DEPARTMENT	YEAR
1	3532210502	CHHOTU KUMAR	BME	III
2	3532210503	DHIRAJ KUMAR	BME	III
3	3532210504	DIVYA BHARTI	BME	III
4	3532210505	ELUMALAI M	BME	III
5	3532210506	GOTHANDARAMAN D	BME	III
6	3532210507	HIRA PARVEEN S	BME	III
7	3532210508	LAXMAN RAY	BME	III
8	3532210509	NANDHINI A	BME	III
9	3532210511	PREMLATA KUMARI	BME	III
10	3532210512	RAJAGANAPATHI R	BME	III
11	3532210514	SANJAY T	BME	III
12	3532210517	SIVABALAN S	BME	III
13	3532210518	SONU KUMAR	BME	III
14	3532210519	VELMURUGAN M	BME	III
15	3532210520	VINJAMURU LAKSHMI	BME	III
16	3532113505	DILLI AKASH G	BME	III
17	5994	VIGNESHWARAN J	BME	III

VAC COORDINATOR — HOD (BME/ECE) — VP (ACADEMICS) — HEAD OF THE INSTITUTE

D. Paul
VAC - AVIT

AVIT AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY | VINAYAKA MISSION'S RESEARCH FOUNDATION (Deemed to be University under section 3 of the UGC Act 1956) | NAAC

DEPARTMENT OF BIOMEDICAL ENGINEERING

VALUE ADDED COURSES

ACADEMIC YEAR : 2024-2025

VA191-SIMULATION OPEN FRAMEWORK ARCHITECTURE

21.09.2024 to 05.10.2024
TIME TABLE

Date	Timings	Topics Covered	No of Hours
21.09.2024	9.00 am- 12.00 pm	➢ Introduction on interactive 3D visualization of MRI data	3
21.09.2024	12.30 pm-3.00 pm	➢ 3D models in SOFA, Visualizing the anatomy Models.	2.5
24.09.2024	3.30 pm-5.30 pm	➢ Data Loading and Visualization	2
25.09.2024	3.30 pm-6.00pm	➢ Overview of accessing & visualizing DICOM database	2.5
05.10.2024	9.00 am- 12.00 pm	➢ Manual Segmentation, Automatic Brain Segmentation	3
05.10.2024	12.30 pm-3.30 pm	➢ Basic image registration	3
		TOTAL	**16**

VALUE ADDED CO-ORDINATOR

D. Pandian
VAC - AVIT

HEAD OF DEPARTMENT

VINAYAKA MISSION'S
RESEARCH FOUNDATION
(Deemed to be University under section 3 of the UGC Act 1956)

VALUE ADDED COURSE TITLE : SIMULATION OPEN FRAMEWORK ARCHITECTURE

VALUE ADDED COURSE CODE : VA191

FACULTY : ENGINEERING AND TECHNOLOGY

COURSE HOURS : 16

COURSE CONTENT

Chapter-I 2D & 3D visualization **6 Hrs**

Introduction on interactive 3D visualization of MRI data and 3D models in SOFA, Visualizing the anatomy Models

Chapter-II Loading & Rendering of DICOM **5 hrs**

Data Loading and Visualization, Overview of accessing & visualizing DICOM database

Chapter-III Image Segmentation Techniques **5 hrs**

Manual Segmentation, Automatic Brain Segmentation,Basic image registration

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RESEARCH FOUNDATION
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DEPARTMENT OF BIOMEDICAL ENGINEERING

VALUE ADDED COURSES

ACADEMIC YEAR : 2024-2025

VA191-SIMULATION OPEN FRAMEWORK ARCHITECTURE

RESOURCE PERSONS

S.No	Resourse Persons
1.	Mr.V.Prabhakaran Assistant Professor (Sr.G-II) Dept. Of Biomedical Engineering Aarupadai Veedu Institute of Technology, Chennai
2.	Ms.R.Sandhiya Assistant Professor Dept. Of Biomedical Engineering Aarupadai Veedu Institute of Technology, Chennai

VAC COORDINATOR

HOD(BME/ECE)

AVIT | VINAYAKA MISSION'S RESEARCH FOUNDATION (Deemed to be University under section 3 of the UGC Act 1956) | NAAC

DEPARTMENT OF BIOMEDICAL ENGINEERING

VALUE ADDED COURSE

VA191-SIMULATION OPEN FRAMEWORK ARCHITECTUR

ATTENDANCE SHEET

SL NO	REG NO	NAME	21-9-24(FN)	21-9-24 (AN)	23-9-24 (AN)	25-9-24(AN)	05-10-24(FN)	05-10-24(AN)
1	3532210501	ABIRAMI D	AB	AB	AB	AB		
2	3532210502	CHHOTU KUMAR						
3	3532210503	DHIRAJ KUMAR						
4	3532210504	DIVYA BHARTI						
5	3532210505	ELUMALAI M						
6	3532210506	GOTHANDARAMAN D	AB					
7	3532210507	HIRA PARVEEN S						
8	3532210508	LAXMAN RAY						
9	3532210509	NANDHINI A						
10	3532210511	PREMLATA KUMARI						
11	3532210512	RAJAGANAPATHI R						
12	3532210514	SANJAY T						
13	3532210517	SIVABALAN S						
14	3532210518	SONU KUMAR						
15	3532210519	VELMURUGAN M						
16	3532210520	VINJAMURU LAKSHMI						
17	3532113505	DILLI AKASH G						
18	5994	VIGNESHWARAN J						

COORDINATOR

D. Parad
VAC - AVIT.

HOID(BME/ECE)

VP (ACADEMICS)

HEAD OF THE INSTITUTE

AVIT | VINAYAKA MISSION'S RESEARCH FOUNDATION (Deemed to be University under section 3 of the UGC Act 1956) | NAAC

DEPARTMENT OF BIOMEDICAL ENGINEERING

VALUE ADDED COURSE

ACADEMIC YEAR : 2024-2025

VA191-SIMULATION OPEN FRAMEWORK ARCHITECTURE

ATTENDANCE PERCENTAGE

SL NO	REG NO	NAME	DEPARTMENT	ATTENDANCE PERCENTAGE
1	3532210502	CHHOTU KUMAR	BME	100
2	3532210503	DHIRAJ KUMAR	BME	100
3	3532210504	DIVYA BHARTI	BME	100
4	3532210505	ELUMALAI M	BME	100
5	3532210506	GOTHANDARAMAN D	BME	95
6	3532210507	HIRA PARVEEN S	BME	100
7	3532210508	LAXMAN RAY	BME	100
8	3532210509	NANDHINI A	BME	100
9	3532210511	PREMLATA KUMARI	BME	100
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12	3532210517	SIVABALAN S	BME	100
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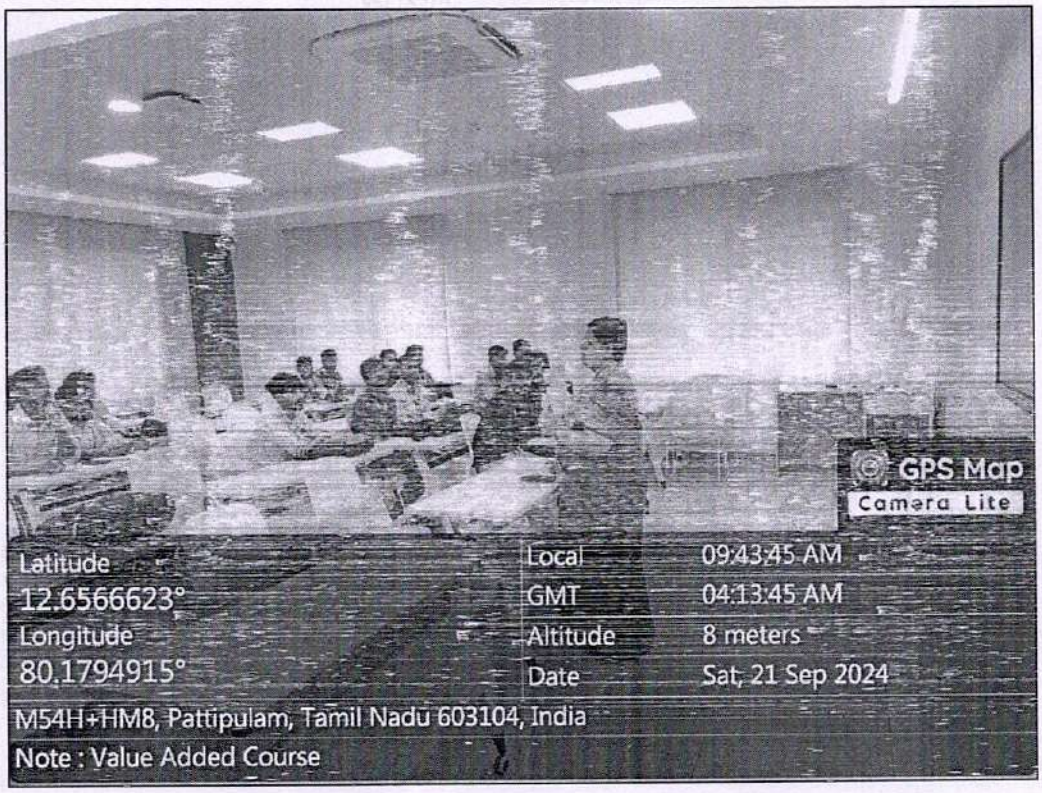
14	3532210519	VELMURUGAN M	BME	100
15	3532210520	VINJAMURU LAKSHMI	BME	100
16	3532113505	DILLI AKASH G	BME	100
17	5994	VIGNESHWARAN J	BME	100

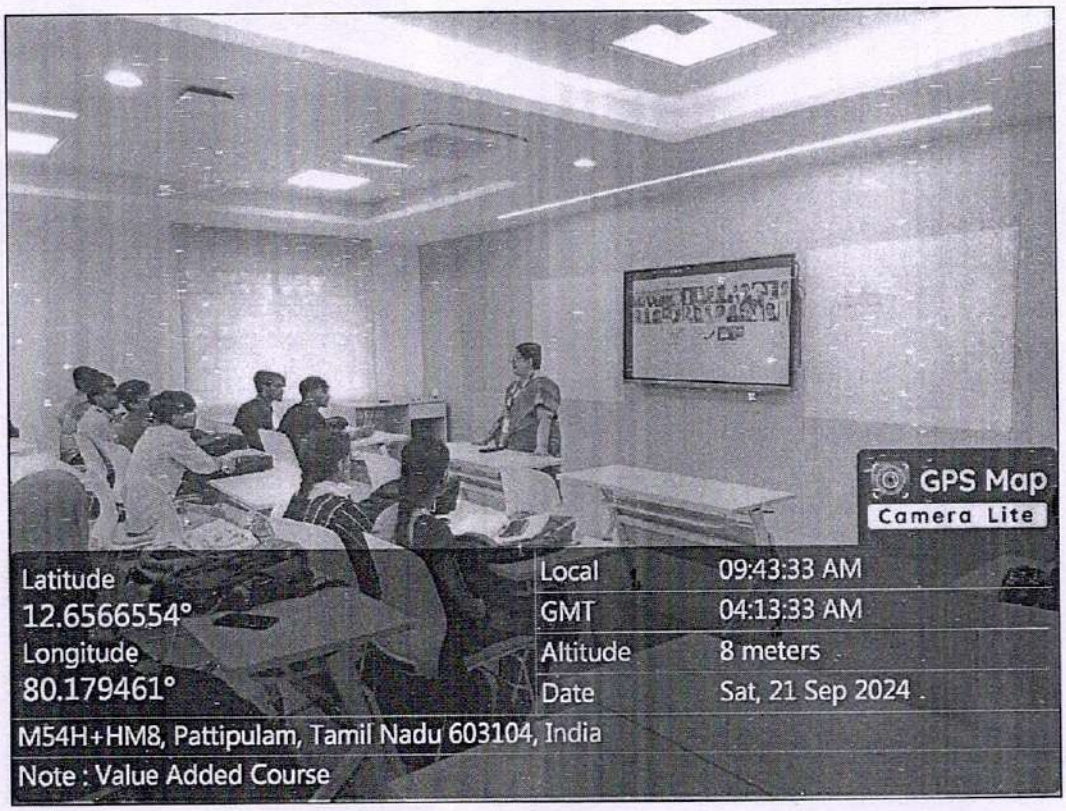
VAC COORDINATOR

D. Bala
VAC - AVIT

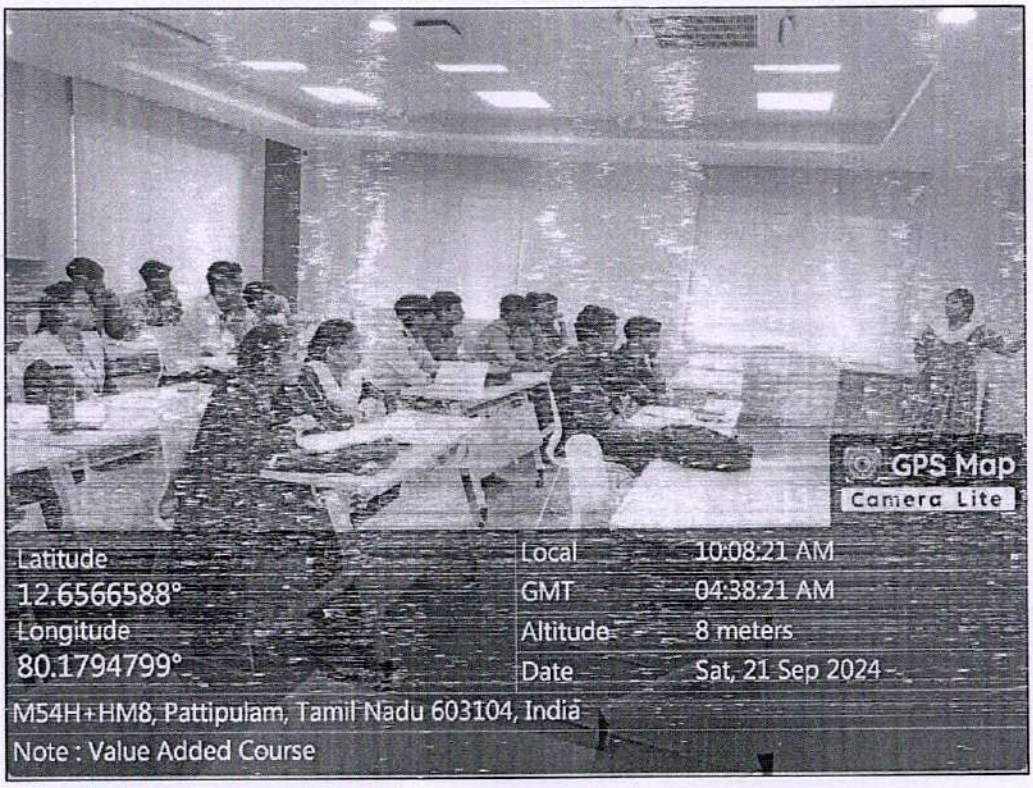
HOD (BME/ECE)

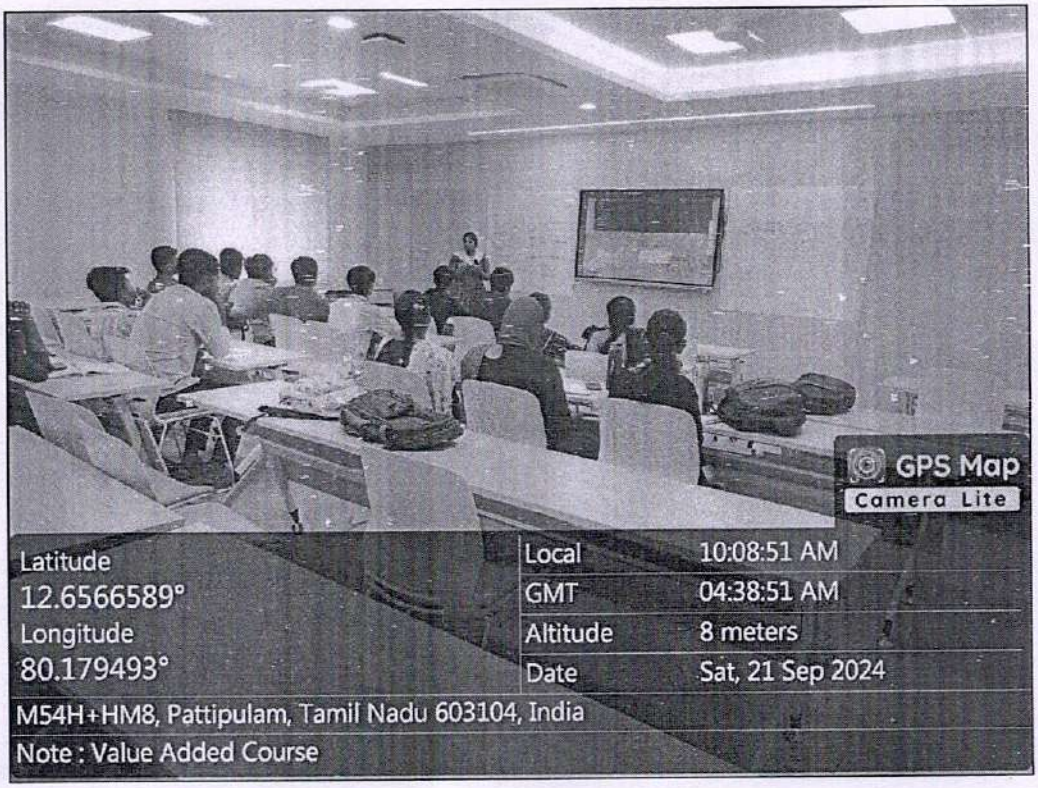
INAGURATION

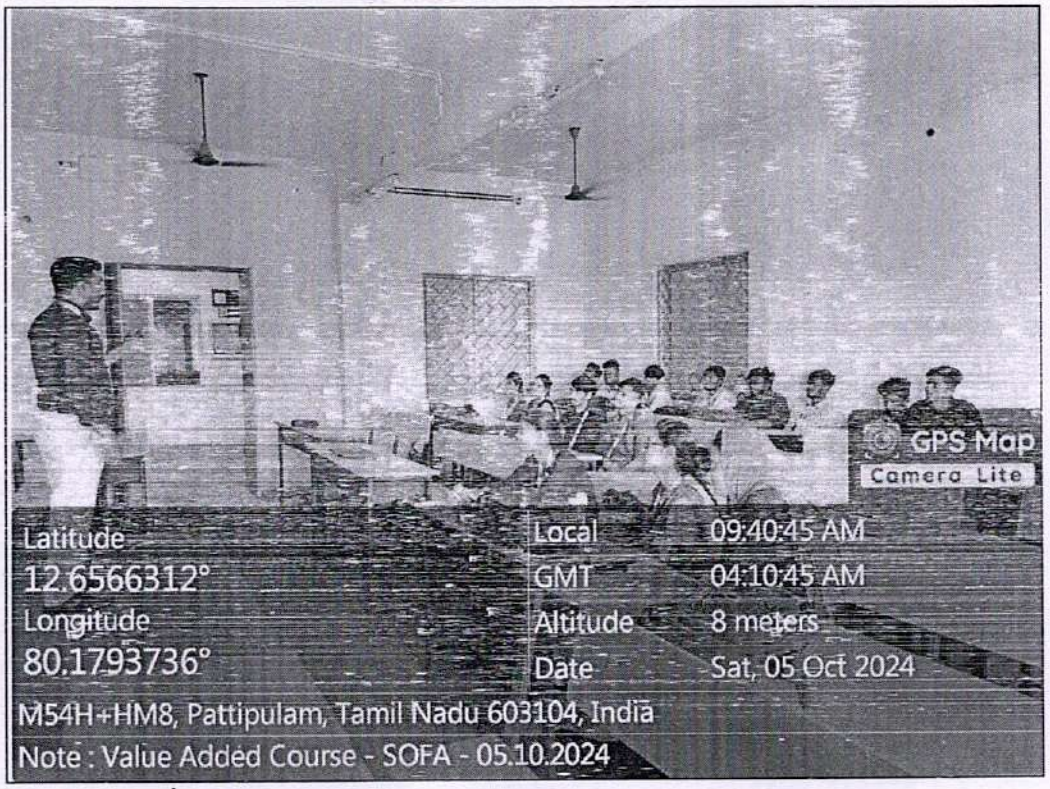




STUDETNS TRAINING CLASS



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Longitude
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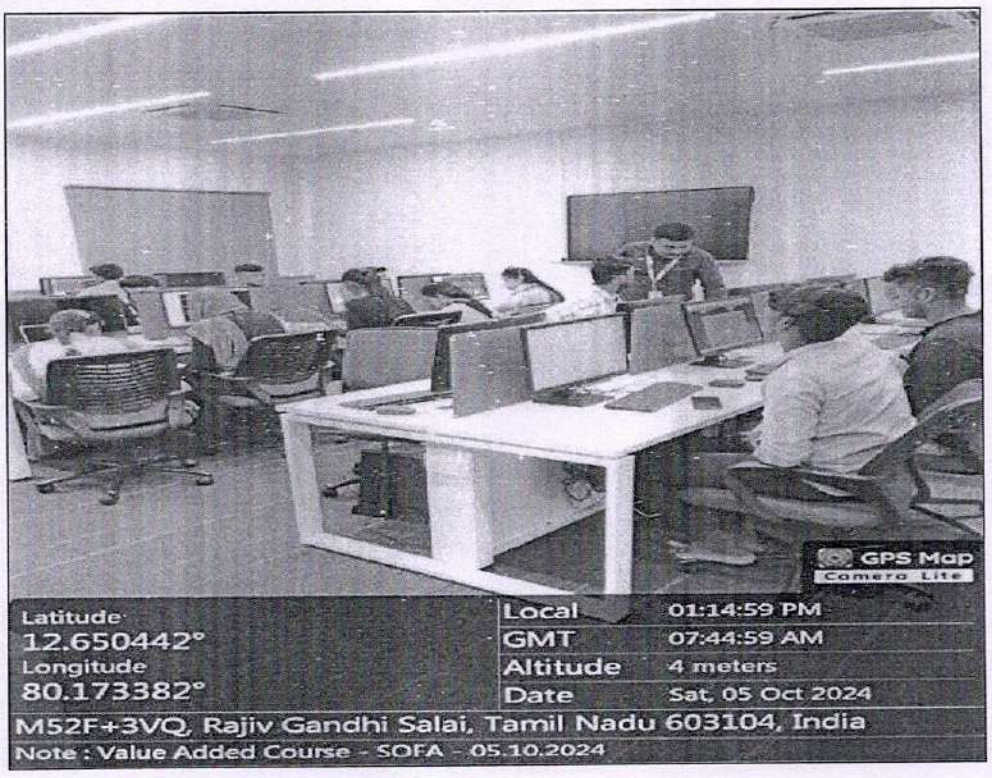
Date Sat, 05 Oct 2024
M54H+HM8, Pattipulam, Tamil Nadu 603104, India
Note : Value Added Course - SOFA - 05.10.2024


GPS Map
Camera Lite
Latitude
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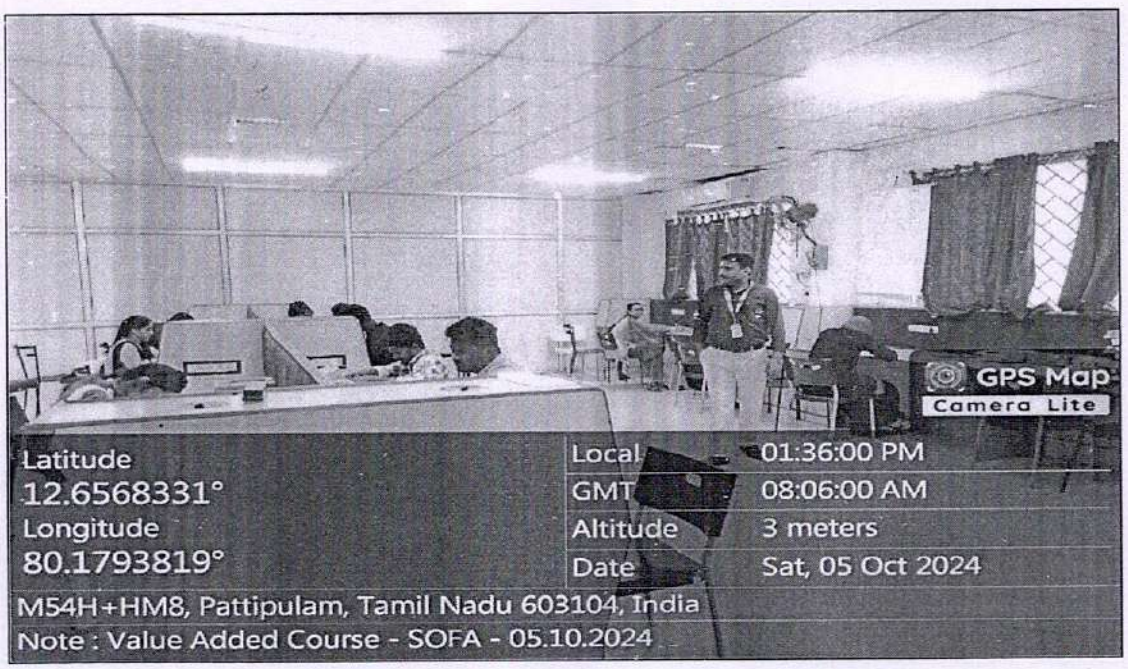
Longitude
80.173382°
Local 01:14:59 PM
GMT 07:44:59 AM
Altitude 4 meters
Date Sat, 05 Oct 2024
M52F+3VQ, Rajiv Gandhi Salai, Tamil Nadu 603104, India
Note : Value Added Course - SOFA - 05.10.2024

STUDETNS ATTENDING EXAMINATION



AVIT — VINAYAKA MISSION'S RESEARCH FOUNDATION (Deemed to be University under section 3 of the UGC Act 1956) — NAAC

DEPARTMENT OF BIOMEDICAL ENGINEERING
VALUE ADDED COURSE
VA191 – SIMULATION OPEN FRAMEWORK ARCHITECTURE
MULTIPLE CHOICE QUESTION [MCQ]

49/50
Marks Obtained

Name : HIRA PARVEEN. S
Register No : 353221050 7
Year/Sem : III rd YEAR / V th SEM
Department : B.E. BME

DATE : 05/10/2024

Marks : 50x1 = 50 Marks
Duration : 50 Mins

1. What does SOFA stand for in the context of simulation frameworks?
   a) Simulation Optimization Framework Architecture
   b) Simulation Open Framework Architecture
   c) Systematic Open Framework Algorithm
   d) Structured Open Framework Application

2. SOFA is primarily designed for which of the following purposes?
   a) Real-time analytics
   b) Scientific research and medical simulations
   c) Game development
   d) Network simulations

3. Which programming language is SOFA primarily written in?
   a) Python
   b) C++
   c) Java
   d) C#

4. SOFA architecture is based on which type of modeling?
   a) Structural
   b) Physics-based
   c) Neural-based
   d) Mathematical

5. Which of the following is NOT a characteristic of SOFA?
   a) Modular
   b) Cross-platform
   c) Extensible
   d) Closed-source

6. SOFA is widely used for simulations in which field?
   a) Aerospace
   b) Medical and surgical planning
   c) Finance
   d) Architecture

7. In SOFA, which component is responsible for defining physical behavior in a simulation?
   a) Nodes
   b) Scene graphs
   c) Solvers
   d) Viewers

8. What type of simulations can SOFA primarily handle?
   a) Rigid body simulations
   b) Soft tissue simulations
   c) Particle simulations
   d) Economic simulations

9. Which of the following rendering engines can be used with SOFA?
   a) OpenGL
   b) DirectX
   c) Vulkan
   d) All of the above

10. Which of the following is a key benefit of SOFA's modularity?
    a) Increased cost
    b) Easier debugging
    c) Ability to switch between algorithms
    d) Reduced functionality

25. What does the "open" in SOFA emphasize?

a) Open-source licensing

b) Open integration with other tools

c) Open for academic research

d) All of the above

26. Which file format is often used to describe scenes in SOFA?

a) XML

b) JSON

c) YAML

d) CSV

27. SOFA is typically used with which type of simulators?

a) Virtual Reality (VR)

b) Augmented Reality (AR)

c) Both VR and AR

d) None of the above

28. In the context of SOFA, what is a "Mechanical Object"?

a) A rendering object

b) An element that holds degrees of freedom for physical simulation

c) An input device

d) A solver component

29. What are "force fields" used for in SOFA?

a) Storing user interactions

b) Calculating forces acting on objects

c) Displaying visual elements

d) Managing computational load

30. Which of the following medical procedures can be simulated using SOFA?

a) Laparoscopy

b) MRI Scans

c) X-rays

d) None of the above

31. SOFA allows simulation of interactions between multiple objects through which feature?

a) Constraints

b) Animation controls

c) Rendering pipelines

d) Force-based tracking

32. Which visualization library is commonly integrated with SOFA?

a) VTK

b) NumPy

c) TensorFlow

d) Panda3D

33. SOFA's extensibility allows it to be used with external physics engines such as:

a) Bullet Physics

b) Box2D

c) Unity Physics

d) None of the above

34. SOFA is suitable for which stage of medical product development?

a) Early-stage prototyping

b) Preclinical testing

c) Clinical trials

d) All of the above

35. Which module in SOFA is responsible for collision detection?

a) Collision models

b) Physics engine

c) Scene manager

d) Viewport renderer

36. SOFA is supported on which operating systems?

a) Windows only

b) Linux only

c) Both Windows and Linux

d) MacOS only

37. SOFA can be used to simulate biological tissues for which type of research?

a) Drug interaction

b) Tissue elasticity

c) Gene expression

d) Metabolic pathways

38. Which tool is often used for data analysis and visualization in SOFA simulations?

a) Matplotlib

b) Excel

c) ParaView

d) SPSS

DEPARTMENT OF BIOMEDICAL ENGINEERING
VALUE ADDED COURSE
VA191 – SIMULATION OPEN FRAMEWORK ARCHITECTURE
MULTIPLE CHOICE QUESTION [MCQ]
ANSWERS

1. b) Simulation Open Framework Architecture
2. b) Scientific research and medical simulations
3. b) C++
4. b) Physics-based
5. d) Closed-source
6. b) Medical and surgical planning
7. c) Solvers
8. b) Soft tissue simulations
9. a) OpenGL
10. c) Ability to switch between algorithms
11. b) Basic building blocks for creating the simulation scene
12. d) All of the above
13. a) Code modification
14. c) Procedural generation
15. b) Computes physical interactions in the simulation
16. b) Real-time simulation support
17. b) Organization of objects and their properties
18. c) Finite element methods (FEM)
19. a) Add custom modules
20. b) Realistic tissue deformation and cutting
21. c) Both direct and iterative solvers
22. c) Both microscopic and macroscopic
23. c) Medical device testing
24. b) User-driven experimentation
25. d) All of the above
26. a) XML
27. c) Both VR and AR
28. b) An element that holds degrees of freedom for physical simulation
29. b) Calculating forces acting on objects
30. a) Laparoscopy
31. a) Constraints
32. a) VTK
33. a) Bullet Physics
34. d) All of the above
35. a) Collision models
36. c) Both Windows and Linux
37. b) Tissue elasticity
38. c) ParaView
39. b) Mass-spring models
40. b) Constraints Engine
41. b) A geometric description of how elements are connected
42. b) Mechanical Object
43. c) Cardiovascular
44. b) C++
45. c) Realistic, interactive simulations
46. c) Both 2D and 3D
47. c) Both command-line and GUI
48. b) Finite Element Method (FEM)
49. c) Material elasticity
50. c) Plugin-based modular system

AVIT VINAYAKA MISSION'S RESEARCH FOUNDATION NAAC

DEPARTMENT OF BIOMEDICAL ENGINEERING

VALUE ADDED COURSE

ACADEMIC YEAR : 2024-2025

VA191-SIMULATION OPEN FRAMEWORK ARCHITECTURE

MARK LIST

SL NO	REG NO	NAME	DEPARTMENT	TEST MARKS (100)
1	3532210502	CHHOTU KUMAR	BME	96
2	3532210503	DHIRAJ KUMAR	BME	98
3	3532210504	DIVYA BHARTI	BME	94
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5	3532210506	GOTHANDARAMAN D	BME	94
6	3532210507	HIRA PARVEEN S	BME	98
7	3532210508	LAXMAN RAY	BME	98
8	3532210509	NANDHINI A	BME	100
9	3532210511	PREMLATA KUMARI	BME	96
10	3532210512	RAJAGANAPATHI R	BME	90
11	3532210514	SANJAY T	BME	94
12	3532210517	SIVABALAN S	BME	96
13	3532210518	SONU KUMAR	BME	94
14	3532210519	VELMURUGAN M	BME	96
15	3532210520	VINJAMURU LAKSHMI	BME	94
16	3532113505	DILLI AKASH G	BME	96
17	5994	VIGNESHWARAN J	BME	94

TOTAL NO OF STUDENTS : 17
No. APPEARED : 17
No OF ABSENTEES : Nil
No. PASSED : 17
No. FAILED : 0
% OF PASSES : 100
CLASS AVERAGE MARK : 95.52

VAC CO-ORDINATOR

D. Pand
VAC - AVIT

HOD (BME/ECE)

Ref. No. AVIT/VAC-BME/2024-25/01 14.10.2024

From,
Dr.Prasath Alias Surendhar S.
Value Added Course Coordinator
Department of Biomedical Engineering
Aardupadai Veedu Institute of Technology (AVIT)
Chennai

To
The Head of the Institute
Aardupadai Veedu Institute of Technology (AVIT)
Chennai

Respected Sir,

Sub: Submission of Attendance and Mark statement of Eligible Students for Certificate purpose-reg

Herewith, I had enclosed the duly verified attendance and mark statement of Eligible Students for issue if certificates with regard to 1 Value Added Course (VA191-SIMULATION OPEN FRAMEWORK ARCHITECTURE) conducted in our Institution for the Academic year 2024-2025. Kindly do the needful.

Thanking you,

Yours Sincerely,

(Dr.Prasath S.)
Value Added Course Coordinator

Encl:
1. Attendance and Mark Statement

AVIT | VINAYAKA MISSION'S RESEARCH FOUNDATION

DEPARTMENT OF BIOMEDICAL ENGINEERING

VALUE ADDED COURSE

ACADEMIC YEAR : 2024-2025

VA191-SIMULATION OPEN FRAMEWORK ARCHITECTURE

ATTENDANCE PERCENTAGE

SL NO	REG NO	NAME	DEPARTMENT	ATTENDANCE PERCENTAGE
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16	3532113505	DILLI AKASH G	BME	100
17	5994	VIGNESHWARAN J	BME	100

VAC COORDINATOR

HOD (BME/ECE)

HEAD OF THE INSTITUTE

D. Para.
VAC - AVIT

AVIT VINAYAKA MISSION'S RESEARCH FOUNDATION

DEPARTMENT OF BIOMEDICAL ENGINEERING

VALUE ADDED COURSE

ACADEMIC YEAR : 2024-2025

VA191-SIMULATION OPEN FRAMEWORK ARCHITECTURE

MARK LIST

SL NO	REG NO	NAME	DEPARTMENT	TEST MARKS (100)
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13	3532210518	SONU KUMAR	BME	94
14	3532210519	VELMURUGAN M	BME	96
15	3532210520	VINJAMURU LAKSHMI	BME	94
16	3532113505	DILLI AKASH G	BME	96
17	5994	VIGNESHWARAN J	BME	94

VAC COORDINATOR

D. Para-
VAC - AVIT

HOD (BME/ECE)

HEAD OF THE INSTITUTE

Ref. No. AVIT/VAC-BME/2024-25/02 14.10.2024

From,
Dr.Prasath Alias Surendhar S.
Value Added Course Coordinator
Department of Biomedical Engineering
Aardupadai Veedu Institute of Technology (AVIT)
Chennai

To
The Head of the Institute
Aardupadai Veedu Institute of Technology (AVIT)
Chennai

Respected Sir,

Sub: Submission of Eligible Students for Value Added Certificates Course wise-reg

Herewith, I had enclosed list of Eligible Students for Value Added Certificates Course wise for issue of certificate with regard to 1 of Value Added Course (VA191-SIMULATION OPEN FRAMEWORK ARCHITECTURE) conducted in our Institution for the Academic year 2024-2025. Kindly do the needful

Thanking you,

Yours Sincerely,

(Dr.Prasath S.)
Value Added Course Coordinator

Encl:
1. List of Eligible Students

AVIT | VINAYAKA MISSION'S RESEARCH FOUNDATION | NAAC

DEPARTMENT OF BIOMEDICAL ENGINEERING

VALUE ADDED COURSE

ACADEMIC YEAR : 2024-2025

VA191-SIMULATION OPEN FRAMEWORK ARCHITECTURE

ELIGIBLE STUDENT LIST

SL NO	REG NO	NAME	DEPARTMENT	YEAR
1	3532210502	CHHOTU KUMAR	BME	III
2	3532210503	DHIRAJ KUMAR	BME	III
3	3532210504	DIVYA BHARTI	BME	III
4	3532210505	ELUMALAI M	BME	III
5	3532210506	GOTHANDARAMAN D	BME	III
6	3532210507	HIRA PARVEEN S	BME	III
7	3532210508	LAXMAN RAY	BME	III
8	3532210509	NANDHINI A	BME	III
9	3532210511	PREMLATA KUMARI	BME	III
10	3532210512	RAJAGANAPATHI R	BME	III
11	3532210514	SANJAY T	BME	III
12	3532210517	SIVABALAN S	BME	III
13	3532210518	SONU KUMAR	BME	III
14	3532210519	VELMURUGAN M	BME	III
15	3532210520	VINJAMURU LAKSHMI	BME	III
16	3532113505	DILLI AKASH G	BME	III
17	5994	VIGNESHWARAN J	BME	III

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