



SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

(An Autonomous Institution)

(Approved by AICTE, New Delhi & Affiliated to Pondicherry University)
(Accredited by NBA-AICTE, New Delhi, ISO 9001:2000 Certified Institution &
Accredited by NAAC with "A" Grade)

Madagadipet, Puducherry - 605 107

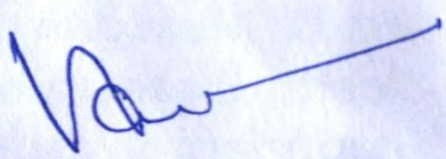


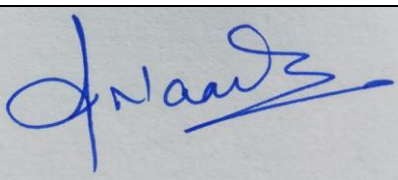
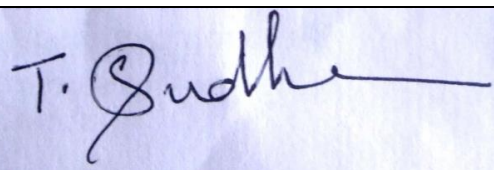


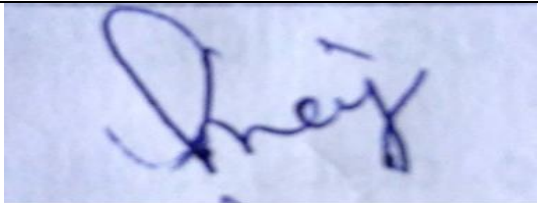
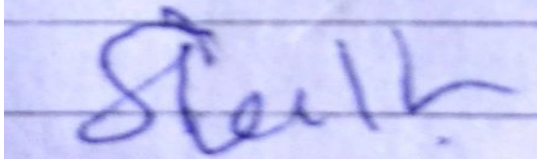
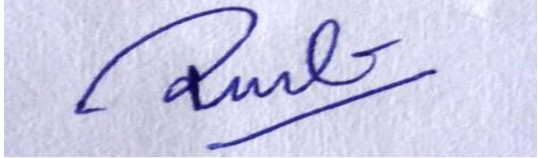
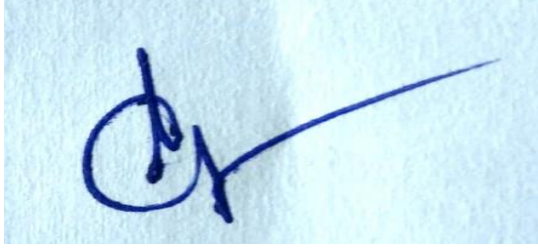
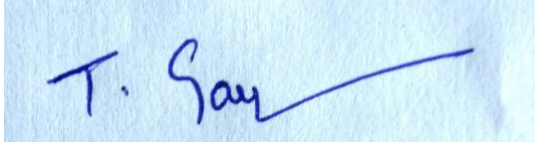
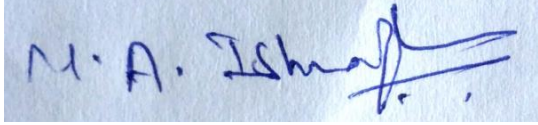
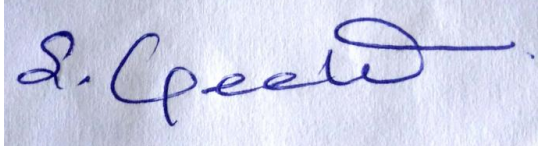


Department of Instrumentation and Control Engineering

Minutes of second Board of Studies

The second Board of Studies meeting of the Department of Instrumentation and Control Engineering was held on 31st March 2021 at 10:00 A.M in the Simulation Laboratory, Department of ICE, Sri Manakula Vinayagar Engineering College with the Head of the Department in the Chair.

The following members were present for the BoS meeting

Sl.No	Name of the Member with Designation and official Address	Responsibility in the BoS	Signature
1	Dr. L. M.Varalakshmi Professor and Head Department of ICE, SMVEC	Chairman	
External Members			
2	Dr. P. A. Karthick, P.D.F. Professor Department of Instrumentation and Control Engineering National Institute of Technology, Tiruchirappalli	External Member	 Dr. P.A. KARTHICK Assistant Professor Department of Instrumentation and Control Engineering National Institute Technology, Trichy Tiruchirappalli - 620 015. Tamilnadu, India
3	Dr.D. Manamalli Professor Department of Instrumentation Engineering, MIT Campus, Anna University	External Member	
4	Dr. Anima Nanda Professor & Head/ BMI Director IQAC, Sathyabama University	External Member	
Internal Members			
5	Prof.T. Sudha Assistant Professor Department of ICE, SMVEC	Internal Member	

7	Prof..M.Omamageswari Assistant Professor Department of ICE, SMVEC	Internal Member	
8	Prof.J.Jeevanantham Assistant Professor Department of ICE, SMVEC	Internal Member	
9	Prof.M.Rekha Assistant Professor Department of ICE, SMVEC	Internal Member	
12	Dr.S.Deepa Professor & Head Department of Chemistry,SMVEC	Internal Member	
13	Dr. T. Gayathri Professor & Head Department of Mathematics,SMVEC	Internal Member	
14	Dr. M. A. Ishrath Jahan Professor Department of English, SMVEC	Internal Member	
15	Mrs.S.Geetha Assistant Professor Department of Physics, SMVEC	Internal Member	
Co-opted Members			
1	Mr. B. Murugan Senior Executive Engineer Biogenomonics	Co-opted Member	
2	Mr. S.Karthikeyan E-Beam control Operator Siechem Technologies pvt.Ltd	Co-opted Member	

Agenda of the Meeting

1. Review of action taken for the first meeting held on 17.6.2020 for R-2019 and R-2020 Regulations — Modifications if any.
 2. To discuss and approve the B.Tech. Instrumentation and Control Engineering, Curriculum and Syllabi, Pondicherry University Regulations 2013 for final year and third year students admitted in the academic year (2017-18) and (2018-19).
 3. To discuss and approve the Curriculum for the semesters I to VIII and syllabi for V and VI Semesters under Autonomous Regulations 2019 for the B.Tech – Instrumentation and Control Engineering students admitted in the Academic Year 2019-20.
 4. To discuss and approve the Curriculum for semesters I to VIII and syllabi for V and VI Semester and ratification of syllabi for semesters I to IV under Autonomous Regulations 2020 for the B.Tech – Instrumentation and Control Engineering students admitted in the Academic Year 2020-21(First Year).
 5. To discuss and approve the Eligible Diploma Programmes for the Lateral entry Student's admission into Second year under Autonomous Regulations R-2020 for the B.Tech – Instrumentation and Control Engineering programme.
 6. To discuss and approve the revised Vision and Mission of the department.
 7. To apprise about the academic calendar for the odd semester (Feb. 21 to June 21 and the conduction of online/offline mode of class.
 8. To discuss about the uniqueness of the Curriculum
 - a. Employability Enhancement Course
 - b. Skill Development Courses- Foreign language /IELTS
 - c. NPTEL/MOOC Courses
 - d. Indian Constitution, Essence of Indian traditional knowledge etc are introduced as Mandatory courses
 9. To apprise about the conduct of special exam for COVID19 affected students
 10. To discuss and recommend the panel of examiners to the Academic Council
 11. Any other item with the permission of chair
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Minutes of the Meeting

Dr. L.M.Varalakshmi, Chairman, BoS opened the meeting by welcoming the external members, the internal and co-opted members and thanked them for the detailed deliberations on the agenda items that had been approved by the Chairman.

Item:1	<p>Chairman, BoS, appraised the minutes of 1st BoS, its implementation and then it is confirmed with the approval for the incorporation of minor revisions needed as mentioned below.</p> <ol style="list-style-type: none">1. Material science syllabus R. 2020 is vast, can be reduced. Second unit can be split into second and third unit, fifth unit which consists of nano materials was not essential for the first years and the members suggested removing the fifth unit.2. Basic Electronics theory R. 2020 was modified by removing zener regulator from first unit and introduced in fourth unit in special device categories, since it is elaborated in fifth unit.3. Basic Electronics Lab was altered by splitting up few experiments.4. Electrical Technology lab was limited with the experiments.
Item:2	<p>Chairman, BoS, appraised about the Pondicherry University Regulations R-2013, its curriculum and syllabi followed for the present B.Tech — Instrumentation and Control Engineering, Fourth year and Third year students admitted in the Academic Year 2017-18 and 2018-19.</p> <p>❖ Examination and evaluation – SMVEC Autonomous system.</p> <p>The BoS noted the Agenda.</p>
Item:3	<p>R2019 - Curriculum /Syllabus (Annexure)</p> <p>The SMVEC Autonomous Regulations, R-2019, its curriculum for 1 to 8 semesters and syllabi for 5th and 6th semesters, for B.Tech — Instrumentation and Control Engineering were discussed and the following comments were given by BoS members.</p> <ol style="list-style-type: none">1. Linear Control System is introduced in V semester instead of industrial unit operation, later the industrial unit operation is shifted to professional elective II.2. Analytical Instrumentation is included as a core subject in VI semester3. Robotics and Automation is included in professional elective II.4. Virtual Instrumentation is included in professional elective III.5. Ultrasonic instrumentation to be Introduced as open elective IV. <p>Process automation to be changed as Industrial Automation in open elective IV.</p>
Item:4	<p>R2020- Curriculum /Syllabus (Annexure)</p> <p>The SMVEC Autonomous Regulations, R-2020, its curriculum for 1 to 8 semesters and syllabi for 5th and 6th semesters, for B.Tech — Instrumentation and Control Engineering were discussed and the following comments were given by BoS members.</p> <ol style="list-style-type: none">1. Analytical Instrumentation is shifted from the professional elective to the core subject, Industrial Unit Operation is moved to the professional elective II.2. Computer control of processes can be shifted as core subject in V semester, while Robotics & Automation theory is moved to professional elective III.3. To support the biomedical instrumentation subject in VI semester, a

	<p>parallel lab of Diagnostic and Therapeutic Equipment's lab can be included instead of robotics lab.</p> <ol style="list-style-type: none"> Syllabus of power plant instrumentation in professional elective III was revised. Instead of control systems, Industrial safety and management to be offered as open elective-I. In sensors and transducers open elective-I, title of units alone has been modified. Virtual Instrumentation is provided as professional elective-IV. Ultrasonic instrumentation to be introduced as open elective-IV instead of virtual instrumentation. Industrial safety to be introduced as professional elective -V. Process automation to be changed as Industrial Automation in open elective-IV.
Item:5	<p>Eligible Diploma Programmes (Annexure)</p> <p>For lateral entry student's admission, as per the AICTE, any branch students with a preferable pass percentage can apply for the Instrumentation and Control Engineering.</p>
Item:6	<p>The Vision, Mission, Programme Educational Objectives and Programme Specific Outcomes of Instrumentation and Control Engineering department are revised, have been presented in the 2nd BoS meeting. It was approved by BoS members and given in Annexure- III.</p>
Item:7	<p>The Academic Calendar for the Even Semester of Academic year 2020-21 (given in Annexure-IV) were discussed and approved.</p> <p>The classes are scheduled in the online mode for I, II, III & IV years since 27.03.2021 onwards.</p>
Item:8	<p>The uniqueness of the Curriculum such as Employability Enhancement Course, Foreign language /IELTS as a Skill Development Courses, NPTEL/MOOC Courses, Mandatory courses etc, were discussed by the BoS members.</p> <p>Foreign languages suggested to the students are</p> <ul style="list-style-type: none"> • Japanese • French • Germany <p>Mandatory courses included in semester V and VI are</p> <ul style="list-style-type: none"> • Indian Constitution • Essence of Indian traditional knowledge • Professional Ethics <p>The professional and open elective of R-2020 and R2019 is floated to the students through google form and the willingness is collected.</p>
Item:9	<p>Covid'19 affected candidate's practical exam (Industrial Measurement and Control) dated 08/1/2021 was postponed and conducted separately on 19/2/2021.</p>
Item:10	<p>Panel members (Annexure-V)</p> <p>Approved by BoS members and forwarded to Academic Council</p>
Item:11	<p>Approved by BoS members and forwarded to Academic Council</p>

The meeting was concluded at 1.00 PM with vote of thanks by **Dr.L.M.Varalakshmi**, Head of Department, Instrumentation and Control Engineering



Chairman-BoS /Dept. of ICE
(Dr. L.M. Varalakshmi)



Director cum Principal
(Dr. V. S. K. Venkatachalapathy)

Annexure– I

(1. Revised syllabus of “Electrical Technology Lab”)

U20ESP116	ELECTRICAL TECHNOLOGY LAB	L	T	P	C	Hrs
		0	0	2	1	30

Course Objectives

- To introduce practical knowledge on domestic wiring and analysis of electrical circuits.
- To provide the methods to test and evaluate the performance of electrical machines.
- To evaluate the open circuit and short circuit test on single phase transformer.
- To impart knowledge on speed control of DC shunts motor.
- To observe the performance of load test on single phase induction motor, three phase squirrel cage induction motor and single-phase alternator.

Course Outcomes

After successful completion of this course, the student will be able to

- CO1-** Acquire knowledge on wiring electrical circuits such as domestic, Go-Down wiring and Doctor's Wiring. **(K2)**
- CO2 -** Apply proper measurement techniques for the calculation of power and calibration of meters. **(K2)**
- CO3 -** Estimate the performance of DC and induction motor by conducting load and no-load tests. **(K3)**
- CO4 -** Acquire hands on experience of conducting various tests on induction machines and obtaining their performance indices using standard analytical as well as graphical methods. **(K3)**
- CO5 -**Acquire hands on experience of conducting various tests on alternators. **(K3)**

List of Experiments

(Any 10 Experiments)

1. Wiring circuits for
 - A. Calling bell
 - B. Staircase
 - C. Ceiling fan and fluorescent lamp wiring
2. Load test on single phase transformer
3. Load test on three phase transformer
4. Open circuit and short circuit test on single phase transformer
5. Load characteristics of dc shunt motor
6. Speed control of dc shunt motor.
7. Load characteristics of dc series motor
8. Open circuit characteristics of separately excited dc shunt generator
9. Load test on single phase Induction motor
10. Load test on three phase squirrel cage induction motor
11. Load test on single phase Alternator

Reference Books

1. Umesh Agarwal, “Laboratory Manual Basic Electrical Engineering, 2019”, Notion Press, 1st Edition, 2019.

2. P. Tiwari & S. Sairola S.K. Kataria & Sons, "Electrical Engineering Laboratory Practice ", Reprint 2010 Edition 2010.
3. Tarnekar S.G. & et Al, "Laboratory Courses in Electrical Engineering", S Chand & Company, Rep. Edition 2006.
4. R.K. Rajput, " Utilization of electrical power", First edition, Lakshmi publications, 2006
5. Venkataratnam K., "Special Electrical Machines", Universities Press Private Limited, 1st Edition, 2009.

Web References

1. <https://nptel.ac.in/courses/108/108/108108076/>
2. <https://nptel.ac.in/courses/108/105/108105017/>
3. <http://www.cittumkur.org/eee/em.pdf>

COs/POs/PSOs Mapping

COs	Program Outcomes (POs)												Program Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	3	2	3	2	-	1	-	2	1	-	1	3	3	2	3
2	3	2	3	1	1	1	-	2	2	-	2	3	3	2	3
3	3	2	3	1	1	1	-	2	2	-	2	3	3	2	3
4	3	2	3	1	1	1	-	2	2	-	2	3	3	2	3
5	3	2	3	1	1	1	-	2	2	-	2	3	3	2	3

Correlation Level: 1-Low, 2-Medium, 3- High

(2. Revised syllabus of “Basic Electronics”)

U20EST113

BASIC ELECTRONICS

L	T	P	C	Hrs
3	0	0	3	45

Course Objectives

- To acquaint the students with semiconductor diodes.
- To familiarize the students with Bipolar Transistors.
- To acquaint the students with Field effect Transistors
- To impart knowledge on special semiconductor devices.
- To familiarize the student with the design and analysis of Rectifiers and power supplies.

Course Outcomes

After completion of the course, the students will be able to

CO1 - Understand the basic semiconductor diodes and its applications **(K2)**

CO2 - Gain knowledge about the working and characteristics of transistors. **(K2)**

CO3 - Understand small signal and large signal amplifiers **(K2)**

CO4 - Analyze the operation of feedback amplifiers and oscillators **(K4)**

CO5 - Analyze the special semiconductor devices **(K4)**

UNIT I SEMICONDUCTOR DEVICES

(9 Hrs)

Introduction. Intrinsic and Extrinsic semiconductor - charge density, Mobility and conductivity, Drift and diffusion current, Continuity equation, PN junction - Energy band diagram of PN junction, V-I characteristics, Current components in PN junction, Application of diode - Diode switch, Clipper, Clamper, Voltage Multiplier : Voltage doubler.

UNIT II BIPOLAR JUNCTION TRANSISTORS

(9 Hrs)

Operation of NPN and PNP transistor - Current components in a transistor, Characteristics of CE, CB, CC configuration - Switching characteristics - Biasing of BJT- Types of Biasing- Analysis and design. Bias stability. Thermal runaway. Temperature compensation. Applications

UNIT III FIELD EFFECT TRANSISTORS (FET)

(9 Hrs)

JFET- Construction, Operation and Characteristics, Expression for pinch off voltage and drain current - MOSFET- Enhancement and Depletion mode operation and characteristics- Biasing of FET- Comparison of BJT and FET. Applications

UNIT IV SPECIAL SEMICONDUCTOR DEVICES

(9 Hrs)

Zener Diode- V-I characteristics, SCR- UJT- DIAC- TRIAC - Varactor diode - PIN diode - Tunnel diode - Gunn diode - Principle of photo electronic devices - Solar cell, Photo diode - LED, LCD, LASER diode.

UNIT V RECTIFIERS AND POWER SUPPLIES

(9 Hrs)

Half Wave Rectifier - Full Wave Rectifier – Bridge Rectifier – Performance of Rectifiers – Filters – Types of Filters – L, C, LC, pi Filters – Regulators – Shunt and Series Voltage Regulator – IC Regulator – SMPS.

Text Books

1. Jacob Millman, Millman's Electronic Devices and Circuits, McGraw Hill Education; 4 edition 2015.
2. G.K. Mithal, "Basic Electronic Devices and circuits", 2nd Edition, G.K.PublishersPvt. Ltd., 2004.
3. David Bell, "Fundamentals of Electronic Devices and Circuits", 5th Edition, Oxford University Press, 2012

Reference Books

1. Robert L.Boylestad, Louis Nashelsky, Electronic Devices and Circuits Theory,Prentice Hall,2013.
2. R.S.Sedha, A Text Book of Applied Electronics S. Chand Publications, 2014.
3. Salivahanan.S, Electronic Devices and Circuits, TMH, 2013.
4. Sedra and Smith," Microelectronic Circuits, , Oxford University Press, 5th Edition, 2012
5. Schultz, Mitchel. Grob's basic electronics.McGraw-Hill, 2019.

Web References

1. <https://wiki.analog.com/university/courses/electronics/text/electronics-toc>
2. <https://www.makerspaces.com/basic-electronics/>
3. <https://www.electronics-tutorials.ws/>
4. <https://nptel.ac.in/courses/117/103/117103063/>

COs/POs/PSOs Mapping

COs	Program Outcomes (POs)												Program Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	3	2	3	1	2	1	-	3	2	-	2	3	3	2	3
2	3	2	3	1	2	1	-	3	2	-	2	3	3	2	3
3	3	2	3	1	2	1	-	3	2	-	2	3	3	2	3
4	3	2	3	1	2	1	-	3	2	-	2	3	3	2	3
5	3	2	3	1	2	1	-	3	2	-	2	3	3	2	3

Correlation Level: 1-Low, 2-Medium, 3- High

(3. Revised syllabus of “Basic Electronics Lab”)

U20ESP114	BASIC ELECTRONICS LAB	L	T	P	C	Hrs
		0	0	2	1	30

Course Objectives

- To give a basic introduction to electronic components
- To provide students knowledge about semiconductor diodes.
- To determine the V-I characteristics of transistor configurations.
- To determine the characteristics of thyristor circuits
- To explain the importance of transistors as switch

Course Outcomes

After completion of the course, the students will be able to

CO1 - Understand the basic circuit concepts. **(K2)**

CO2 - Analyze the functioning and characteristics of transistors.**(K3)**

CO3 - Demonstrate the understanding of special semiconductor diodes and its applications. **(K2)**

CO4 - Analyze the V-I characteristics of thyristors. **(K3)**

CO5 - Analyze the Switching characteristics of transistors. **(K3)**

List of Experiments

1. Study of circuit components and equipment (Component identification, Characteristics of Passive Circuit elements, Color coding, checking diode, BJT, FET, study of CRO, Function Generator, Multimeter, LCR meter).
2. Characteristics of Semiconductor diode
3. Characteristics of Zener diode
4. Characteristics of LED/ LDR.
5. Characteristics of CE configuration
6. Characteristics of CB configuration
7. Characteristics of FET
8. Characteristics of SCR.
9. Characteristics of TRIAC.
10. Simulation using PSpice / Multisim.

Reference Books

1. Ravi kumar “Basic Electronics Engineering Handbook”;1st edition, June 27, 2019
2. Paul Scherz, Dr. Simon Monk “Practical Electronics”, McGraw-Hill Education TAB; 4th edition (March24, 2016)
3. Sedra and Smith, “Microelectronic Circuits”, Oxford University Press, 5th Edition, 2012
4. Schultz, Mitchel, “Grob's basic electronics”, McGraw-Hill, 2019.
5. Robert L. Boylestad, “Electronic Devices and Circuit Theory”, 11th Edition, 2015

Web Resources

1. <https://www.makerspaces.com/basic-electronics/>
2. <https://www.electronics-tutorials.ws/>
3. www.allaboutcircuits.com
4. www.circuitstoday.com

COs/POs/PSOs Mapping

COs	Program Outcomes (POs)												Program Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	1	2	3	2	-	1	-	2	1	-	1	3	3	2	3
2	2	2	3	1	1	1	-	2	2	-	2	3	3	2	3
3	3	2	3	1	1	1	-	2	2	-	2	3	3	2	3
4	3	2	3	1	1	1	-	2	2	-	2	3	3	2	3
5	3	2	3	1	1	1	-	2	2	-	2	3	3	2	3

Correlation Level: 1-Low, 2-Medium, 3- High

(4. Revised syllabus of “Materials Science”)

U20BST105	MATERIALS SCIENCE	L	T	P	C	Hrs
		3	0	0	3	45

Course Objectives

- To familiarize the concept of Dielectric Materials.
- To introduce about the various magnetic materials.
- To understand the concept of superconductors
- To understand the concept of Semiconductor materials and its applications
- To learn about the nuclear reactors and materials.

Course Outcomes

After completion of the course, the students will be able to

CO1- Understand the dielectric polarization

CO2 - Learn the basics of various magnetic materials with its properties for various applications

CO3 - Understand the concept of superconductors

CO4 - Learn the basic principles of semiconductors

CO5 - Understand the nuclear reactors and its materials

UNIT I DIELECTRIC MATERIALS

(9 Hrs)

Dielectric Polarization and its Mechanisms – Calculation of Polarizabilities (for electronic and ionic polarizations only) - Temperature dependence of polarization-Internal Field in solids - Clausius-Mossotti relation.– Elementary ideas of Piezo- Pyro- and Ferro-electric materials and Applications. NLO materials and piezoelectric actuators (introductory concepts).

UNIT II MAGNETIC MATERIALS AND SUPERCONDUCTORS

(9 Hrs)

Magnetic Materials: Origin of atomic magnetic moment – Bohr magneton-classification of magnetic materials (Dia,Para, Ferro, antiferro&Ferri) – Domain Theory of Hysteresis – Structure and Properties of Ferrites – Properties of Soft& Hard Magnetic Materials – Applications. Magnetic Hard Disk.Ferro-fluids and applications.

UNIT III SUPERCONDUCTORS

(9 Hrs)

Superconductors: Basic concepts – properties of superconductors –Meissner effect – Type I and II superconductors – BCS theory (qualitative) - High Temperature Superconductors– Qualitative ideas of Josephson effect, quantum interference and SQUID – their applications.

UNIT IV SEMICONDUCTORS

(9 Hrs)

Semiconductors –Concept of Fermi Distribution Function, Fermi Energy Level- Derivation of Carrier concentration in intrinsic Semiconductors –Basic ideas of Electrical conductivity in intrinsic and extrinsic semiconductors -temperature dependence of carrier concentration and electrical conductivity in semiconductors (qualitative ideas),Hall effect in Semiconductors -- Application of Hall Effect. Basic Ideas of Compound Semiconductors (II-VI & III-V).Photovoltaic Effect-Solar photovoltaic cells.

UNIT V NUCLEAR REACTORS & MATERIALS

(9 Hrs)

Mass Defect & Binding Energy of Nucleus - Disintegration in fission –Nuclear Reactors: BWR – FBR. Materials used in Nuclear Reactors; Materials for Moderator, coolant, reactor control elements

containment shell. Nuclear Fuel materials and Fuel processing - Fuel enrichment. Nuclear fusion reactions for fusion reactors-D-D and D-T reactions, Basic principles of Nuclear Fusion reactors

Text Books

1. Avadhanulu M N, "Engineering Physics", Vol.-II, S. Chand & Co, 2009.
2. Arthur Beiser, "Concepts of Modern Physics", 6th Edition, TMH, New Delhi 2008.

Reference Books

1. V Rajendran, Engineering Physics, 2nd Edition, TMH, New Delhi 2011.
2. B.S. Murty, P. Shankar, Baldev Raj, B.B. Rath, and James Murday, Text book of Nanoscience and Nanotechnology, Universities Press, Hyderabad 2012.
3. Ali Omar M, Elementary Solid State Physics, Addison Wesley Publishing Co., 2009.
4. Pillai S.O, Solid State Physics, 6th Edition – New Age International, 2005.
5. Vijayamohan K Pillai and Meera Parthasarathy, Functional Materials, Universities Press Hyderabad, 2012.
6. C.M. Srivastava and C. Srinivasan, Science of Engineering Materials, 2nd Edition, New Age Int. (P) Ltd, New Delhi, 1997.

Web Resources

1. <https://nptel.ac.in/courses/122/102/122102008/>
2. <https://lecturenotes.in/subject/23/material-science-ms>
3. <http://people.virginia.edu/~lz2n/mse209/>
4. <https://www.youtube.com/playlist?list=PLE34EAAA410160DD6>

COs/POs/PSOs Mapping

COs	Program Outcomes (POs)												Program Specific Outcomes (PSOs)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	3	2	2	-	-	-	-	-	-	-	-	-	3	-	-
2	3	2	2	-	-	-	-	-	-	-	-	-	3	-	-
3	3	2	2	-	-	-	-	-	-	-	-	-	3	-	-
4	3	-	1	-	-	-	-	-	-	-	-	-	3	-	-
5	3	2	1	-	-	-	-	-	-	-	-	-	3	-	-

Correlation Level: 1-Low, 2-Medium, 3- High

(5. Revised V and VI Semester Curriculum(2020))

SEMESTER – V (R-2020 Regulation)										
Sl. No	Course Code	Course Title	Category	Periods			Credits	Max. Marks		
				L	T	P		CAM	ESM	Total
Theory										
1	U20BST547	Numerical Methods	BS	3	0	0	3	25	75	100
2	U20ICT510	Analytical Instrumentation	PC	3	0	0	3	25	75	100
3	U20ICT511	Embedded System Design	PC	3	0	0	3	25	75	100
4	U20ICT512	Industrial Instrumentation - I	PC	3	0	0	3	25	75	100
5	U20ICE5XX	Professional Elective - II #	PE	3	0	0	3	25	75	100
6	U20XXO5XX	Open Elective-II \$	HS	3	0	0	3	25	75	100
Practical										
7	U20BSP549	Numerical Methods Lab	BS	0	0	2	1	50	50	100
8	U20ICP506	Embedded System Design Lab	PC	0	0	2	1	50	50	100
9	U20ICP507	Industrial Instrumentation Lab	PC	0	0	2	1	50	50	100
10	U20ICP508	Instrumentation System Design Lab	PC	0	0	2	1	50	50	100
Employability Enhancement Course										
11	U20ICC5XX	Certification Course – V **	EEC	0	0	4	-	100	-	100
12	U20ICS504	Skill Development Course 4: Foreign Language/ IELTS - I	EEC	0	0	2	-	100	-	100
13	U20ICS505	Skill Development Course 5: Presentation Skill using ICT	EEC	0	0	2	-	100	-	100
Mandatory Course										
14	U20ICM505	Indian Constitution	MC	2	0	0	-	100	-	100
							22	750	650	1400

SEMESTER – VI (R – 2020 Regulation)										
Sl. No	Course Code	Course Title	Category	Periods			Credits	Max. Marks		
				L	T	P		CAM	ESM	Total
Theory										
1	U20ICT613	Biomedical Instrumentation	PC	3	0	0	3	25	75	100
2	U20ICT614	Industrial Instrumentation - II	PC	3	0	0	3	25	75	100
3	U20ICT615	Internet of Things for automation	PC	3	0	0	3	25	75	100
4	U20ICT616	Process Control	PC	3	0	0	3	25	75	100
5	U20ICE6XX	Professional Elective - III #	PE	3	0	0	3	25	75	100
6	U20XXO6XX	Open Elective – III \$	OE	3	0	0	3	25	75	100
Practical										
7	U20ICP609	Diagnostic and Therapeutic Equipment's lab	PC	0	0	2	1	50	50	100
8	U20ICP610	Internet of Things Lab	PC	0	0	2	1	50	50	100
9	U20ICP611	Process Control Lab	PC	0	0	2	1	50	50	100
Employability Enhancement Course										
10	U20ICC6XX	Certification Course – VI **	EEC	0	0	4	-	100	-	100
11	U20ICS606	Skill Development Course 6: Foreign Language / IELTS – II	EEC	0	0	2	-	100	-	100

12	U20ICS607	Skill Development Course 7: Technical Seminar	EEC	0	0	2	-	100	-	100
13	U20ICS608	Skill Development Course 8: NPTEL / MOOC - I	EEC	0	0	0	-	100	-	100
Mandatory Course										
14	U20ICM606	Essence of Indian Traditional Knowledge	MC	2	0	0	-	100	-	100
							21	800	600	1400

SEMESTER – VII										
Sl. No	Course Code	Course Title	Category	Periods			Credits	Max. Marks		
				L	T	P		CAM	ESM	Total
Theory										
1	U20ICT717	Computer Control of Processes	PC	3	0	0	3	25	75	100
2	U20ICT718	Process automation	PC	3	0	0	3	25	75	100
3	U20ICE7XX	Professional Elective – IV #	PE	3	0	0	3	25	75	100
4	U20XXO7XX	Open Elective – IV \$	OE	3	0	0	3	25	75	100
Practical										
5	U20HSP703	Business Basics for Entrepreneur	HS	0	0	2	1	100	-	100
6	U20ICP712	Process Automation Lab	PC	0	0	2	1	50	50	100
7	U20ICP713	Virtual Instrumentation Lab	PC	0	0	2	1	50	50	100
8	U20ICP714	Comprehensive Viva Voce	PC	0	0	2	1	50	50	100
Project Work										
9	U20ICW701	Project Phase – I	PW	0	0	4	2	50	50	100
10	U20ICW702	Internship / Inplant Training	PW	-	-	-	2	100	-	100
Mandatory Course										
11	U20ICM707	Professional Ethics	MC	2	0	0	-	100	-	100
							20	600	500	1100

Annexure – I
PROFESSIONAL ELECTIVE COURSES

Professional Elective – II (Offered in Semester V)		
Sl. No.	Course Code	Course Title
1	U20ICE506	Telemetry and Tele control
2	U20ICE507	Advanced control system
3	U20ICE508	Industrial electronics
4	U20ICE509	MEMS and NEMS
5	U20ICE510	Industrial Unit Operations
Professional Elective – III (Offered in Semester VI)		
Sl. No.	Course Code	Course Title
1	U20ICE611	Applied soft computing
2	U20ICE612	Power plant Instrumentation
3	U20ICE613	Robotics and Automation
4	U20ICE614	Web Based Instrumentation
5	U20ICE615	Digital Control system
Professional Elective – IV (Offered in Semester VII)		
Sl. No.	Course Code	Course Title
1	U20ICE716	Virtual Instrumentation
2	U20ICE717	Automotive Instrumentation System
3	U20ICE718	Fault Detection and Diagnosis
4	U20ICE719	Modern Electronic Instrumentation
5	U20ICE720	Fiber optics and Laser Instrumentation
Professional Elective – V (Offered in Semester VIII)		
Sl. No.	Course Code	Course Title
1	U20ICE821	Industrial safety
2	U20ICE822	System Identification and Adaptive Control
3	U20ICE823	Advanced Instrumentation system
4	U20ICE824	Industrial Data Networks
5	U20ICE825	Field Instrumentation and cabling

Annexure - II
OPEN ELECTIVE COURSES

S.No	Course Code	Course Title	Offering Department	Permitted Departments
Open Elective – I (Offered in Semester IV)				
1	U20ICO401	Sensors and Transducers	ICE	EEE, ECE, CSE, IT, MECH, CIVIL, CCE, AD, FT
2	U20ICO402	Industrial safety and management	ICE	CSE, IT, MECH, CCE, AD

Open Elective – IV (Offered in Semester VII)				
1	U20ICO705	Industrial Automation	ICE	EEE, ECE, CSE, MECH, IT, CIVIL, CCE, BME, Mechatronics.
2	U20ICO706	Ultrasonic Instrumentation	ICE	EEE, ECE, MECH, Mechatronics

(5.Revised V and VI Semester Curriculum(2019))

SEMESTER – V (R-2019 Regulation)										
Sl. No.	Course Code	Course Title	Category	Periods			Credits	Max. Marks		
				L	T	P		CAM	ESM	Total
Theory										
1	U19ICT51	Numerical methods	BS	2	2	0	3	25	75	100
2	U19ICT52	Industrial Instrumentation-1	PC	3	0	0	3	25	75	100
3	U19ICT53	Linear Control System	PC	2	2	0	3	25	75	100
4	U19ICT54	Microprocessor and Embedded system design	PC	3	0	0	3	25	75	100
5	U19ICE5X	Professional Elective –II #	PE	3	0	0	3	25	75	100
6	U19XXO5X	Open Elective-II \$	HS	3	0	0	3	25	75	100
Practical										
7	U19ICP51	Numerical methods Lab	BS	0	0	2	1	50	50	100
8	U19ICP52	Instrumentation system design Lab	PC	0	0	2	1	50	50	100
9	U19ICP53	Microprocessor and Embedded system design lab	PC	0	0	2	1	50	50	100
10	U19ICP54	Simulation Lab	PC	0	0	2	1	50	50	100

Employability Enhancement Course										
11	U19ICC5X	Certification Course-III **	EEC	0	0	4	-	100	-	100
12	U19ICS51	Skill Development Course 5: Foreign Language / IELTS - I	EEC	0	0	2	-	100	-	100
13	U19ICS52	Skill Development Course 6: Presentation Skills using ICT	EEC	0	0	2	-	100	-	100
Mandatory Course										
14	U19ICM51	Essence of Indian Traditional Knowledge	MC	2	0	0	-	100	-	100
							22	750	650	1400

SEMESTER – VI (R-2019 Regulation)										
Sl. No	Course Code	Course Title	Category	Periods			Credits	Max. Marks		
				L	T	P		CAM	ESM	Total
Theory										
1	U19ICT61	Analytical Instrumentation	PC	3	0	0	3	25	75	100
2	U19ICT62	Industrial Instrumentation-II	PC	3	0	0	3	25	75	100
3	U19ICT63	Internet of Things (IoT) for automation	PC	3	0	0	3	25	75	100
4	U19ICT64	Process Control	PC	3	0	0	3	25	75	100
5	U19ICE6X	Professional Elective – III #	PE	3	0	0	3	25	75	100
6	U19XXO6X	Open Elective-III \$	OE	3	0	0	3	25	75	100
Practical										
7	U19ICP61	Industrial Instrumentation lab	PC	0	0	2	1	50	50	100
8	U19ICP62	Internet of Things lab	PC	0	0	2	1	50	50	100
9	U19ICP63	Process Control lab	PC	0	0	2	1	50	50	100
Employability Enhancement Course										
10	U19ICC6X	Certification Course-IV **	EEC	0	0	4	-	100	0	100
11	U19ICS61	Skill Development Course 7: Foreign Language / IELTS - II	EEC	0	0	2	-	100	-	100
12	U19ICS62	Skill Development Course 8: Technical Seminar	EEC	2	0	0	-	100	-	100
13	U19ICS63	Skill Development Course 9: NPTEL / MOOC - I	EEC	0	0	0	-	100	-	100
Mandatory Course										
14	U19ICM61	Professional Ethics	MC	2	0	0	-	100	0	100
							21	800	600	1400

Annexure - I

PROFESSIONAL ELECTIVE COURSES

Professional Elective – I (Offered in Semester IV)		
Sl. No.	Course Code	Course Title
1	U19ICE41	Electric drives and control
2	U19ICE42	Electric and Hybrid Vehicles
3	U19ICE43	Communication Systems
4	U19ICE44	Signals and systems
5	U19ICE45	Electrical Machines
Professional Elective - II (Offered in Semester V)		
Sl. No.	Course Code	Course Title
1	U19ICE51	Telemetry and Tele control
2	U19ICE52	Advanced control system
3	U19ICE53	Industrial electronics
4	U19ICE54	Industrial Unit Operations
5	U19ICE55	Robotics and Automation
Professional Elective - III (Offered in Semester VI)		
Sl. No.	Course Code	Course Title
1	U19ICE61	Applied soft computing
2	U19ICE62	Power plant Instrumentation
3	U19ICE63	Building Automation
4	U19ICE64	Web Based Instrumentation
5	U19ICE65	Digital Control system
Professional Elective – IV (Offered in Semester VII)		
Sl. No.	Course Code	Course Title
1	U19ICE71	Computer control of processes
2	U19ICE72	Automotive Instrumentation system
3	U19ICE73	Virtual Instrumentation
4	U19ICE74	Modern Electronic Instrumentation
5	U19ICE75	Fiber optics and Laser Instrumentation
Professional Elective – V (Offered in Semester VIII)		
Sl. No.	Course Code	Course Title
1	U19ICE80	Industry safety

2	U19ICE81	System Identification and Adaptive Control
3	U19ICE82	Advanced Instrumentation system
4	U19ICE83	Industrial Data Networks
5	U19ICE84	Field Instrumentation and cabling
Professional Elective – VI (Offered in Semester VIII)		
Sl. No.	Course Code	Course Title
1	U19ICE85	Design of Process Control System Components
2	U19ICE86	Renewable Energy Resources
3	U19ICE87	Industry 4.0
4	U19ICE88	Cyber Security in Industrial Automation
5	U19ICE89	Piping and Instrumentation Diagram

Open Elective - IV (Offered in Semester VII)				
1	U19ICO75	Industrial Automation	ICE	EEE, ECE, CSE, MECH, IT, CIVIL, BME, Mechatronics.
2	U19ICO76	Ultrasonic Instrumentation	ICE	EEE, ECE, MECH, Mechatronics

Annexure II

ELIGIBILITY CRITERIA FOR LATERAL ENTRY

- A pass in three year diploma or four year sandwich diploma course in Engineering / Technology with a minimum of 60 % marks (50% marks for OBC and a mere pass for SC/ST candidates)

B.TECH COURSES IN WHICH ADMISSION IS SOUGHT	DIPLOMA COURSES ELIGIBLE FOR ADMISSION
Instrumentation and Control Engineering	✓ Electrical Engineering
	✓ Electrical and Electronics Engineering
	✓ Electronics and Instrumentation Engineering
	✓ Instrumentation Engineering / Technology
	✓ Electronics and Communication Engg.
	✓ Electronics Engineering
	✓ Medical Electronics
	✓ Instrumentation and Control Engineering
	✓ Applied Electronics

Annexure III

Vision and Mission, PEO's and PSO's

COLLEGE VISION AND MISSION

Vision

To be globally recognized for excellence in quality education, innovation, and research for the transformation of lives to serve the society.

Mission

M1: Quality Education: To provide comprehensive academic system that amalgamates the cutting edge technologies with best practices.

M2: Research and Innovation: To foster value- based research and innovation in collaboration with industries and Institutions globally for creating intellectuals with new avenues.

M3: Employability and Entrepreneurship: To inculcate the employability and entrepreneurial skills through value and skill based training.

M4: Ethical Values: To Instill deep sense of human values by blending societal righteousness with academic professionalism for the growth of society.

DEPARTMENT VISION AND MISSION

Vision

To provide quality education, training and research in the area of Instrumentation and Control Engineering to meet the industrial and societal needs with ethical values.

Mission

M1: Quality education: To impart technical knowledge, leadership and managerial skills to meet the current industrial and societal needs.

M2: Research and Innovation: To foster innovation, research and development for the benefit of global community.

M3: Employability and Entrepreneurship: To enhance the employability skills and inculcate entrepreneurial attitude.

M4: Ethical Values: To provide extension services to rural society and instill ethical values among the students.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO 1: Core Competency:

Solve real-life engineering problems, design and development of innovative and cost-effective products exhibiting a solid foundation in Instrumentation and Control Engineering fundamentals to cater needs of society.

PEO 2: State of the art technology:

To impart state of the art technology to the students in the field of Instrumentation and Control Engineering to meet the industrial needs.

PEO 3: Multi-disciplinary skills:

To develop Multi-disciplinary skills and acquire leadership qualities along with professional and ethical values.

PEO 4: Innovation and entrepreneurship:

To promote innovation and entrepreneurship in designing and developing instrumentation systems to address social and technical challenges.

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO1: Basic Knowledge in ICE:

Apply the knowledge of Instrumentation and Control Engineering to relate the fundamental concepts of Instrumentation (measurement, control, operation, monitoring and maintenance) to varied measurement systems and models.

PSO2: Advanced Tools for industrial automation:

Apply the knowledge of hardware and software tools for industrial automation systems

PSO3: Design and development of Instrumentation systems:

Ability to design and develop instrumentation systems to solve real time applications.

Annexure – IV

Academic Calendars (B.Tech –I, II, III and IV years)

Use of Cell Phones

It has been decided **not to permit cell phones inside the college campus**. If any student is found using the cell phone inside the college campus, it would be confiscated and will not be returned back on any circumstances. Hence the students are instructed not to attend the college with the mobile phones.

Dress Code

The students are requested to attend the college neatly dressed. While the male students should attend the college with the shirts neatly tucked in and with the shoes, the female students are permitted to come with churidar and dupatta properly pinned. Students wearing full hand shirts should wear it as such without folding it to half etc. Casual wears like jeans, T-shirts etc., both for boys and girls are strictly prohibited inside the campus. Each department has prescribed uniforms for the labs. The students are requested to strictly adhere to the dress codes as well as the rules and regulations of the college.

Maintenance of Discipline

Discipline is an important factor that shapes one's personality. It is considered as a golden key capable of opening many doors. This institution expects each and every student to follow the rules and regulations in total. Maintaining discipline in the campus will promote a conducive environment for studies.

Working hours

I hr	8.45	to	9.35
II hr	9.35	to	10.25
III hr	10.25	to	11.15
Break	11.15	to	11.30
IV hr	11.30	to	12.20
V hr	12.20	to	1.10
VI hr	1.50	to	2.40
VII hr	2.40	to	3.30
VIII hr	3.30	to	4.20

Lunch break 1.10 p.m. to 1.50 p.m.

SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

(An Autonomous Institution)

(Accredited by NBA-AICTE, New Delhi, NAAC with "A" Grade)

Madagadipet, Puducherry - 605 107



Academic Calendar

January 2021 to May 2021

Name :

Department :

Year / Sem : I year / I semester

நீங்கள்



அன்பு செய்யுங்கள், யாருக்கும் அடிமையாகாதீர்கள்;
இரக்கம் காட்டுங்கள், எவரிடத்தும் ஏமாந்துவிடாதீர்கள்;
பணியைப் போற்றுங்கள், எந்த நிலையிலும் கோழையாகாதீர்கள்;
கண்டிப்பாக இருங்கள், எப்போதும் கோபப்படாதீர்கள்;
சிக்கலாக வாழ்வுகள், கருமியாக மாறாதீர்கள்;
வீரமாக இருங்கள், போக்கிரிகளாக மாறாதீர்கள்;
சுறுசுறுப்பாக இருங்கள், பதட்டம் அடையாதீர்கள்;
வாயுளைத் தேடுங்கள், பேராசைப் படாதீர்கள்;
உழைப்பை நம்புங்கள், உருப்படுவீர்கள்;
உண்மையை நம்புங்கள், உயர்வடைவீர்கள்!

என்றும் அன்புடன்,
ஆதித்யன்.

About Autonomous

Sri Manakula Vinayagar Engineering College has been conferred with Autonomous Status by the University Grants Commission on 26th September 2019 and the same was approved by Pondicherry University on 19th June 2020. The Pondicherry University Regulations R2013 will be followed for the students admitted in the Academic Year 2017 -18 (present Final year) and for the students admitted in the Academic Year 2018 -19 (present Third year). SMVEC Autonomous Regulations R2019, will be followed for the students admitted in the Academic Year 2019-20(present Second Year). SMVEC Autonomous Regulations R2020, will be followed for the students admitted in the Academic Year 2020-21(present first Year)

HIGHLIGHTS OF SMVEC AUTONOMOUS REGULATIONS 2020

- ❖ Industry 4.0 ready curriculum
- ❖ Updated towards skill development to create more job opportunities
- ❖ Multidisciplinary curriculum
- ❖ More entrepreneurship opportunities
- ❖ IELTS model curriculum / Foreign Languages learning opportunities
- ❖ Department wise Gold Medals
- ❖ Results will be declared within a month after completion of examinations

❖ EEC / Mandatory course

The Institute has Established 17 Center of Excellence to provide 75 International Certification courses from IBM, Google, Cisco, E Plan, Microsoft, Autodesk, Texas instruments, Festo, Bentley, Schneider Electric, Amazon web services, Siemens, Tally, DELL EMC², Harita Techserv, PTC, LN an Excellence in Technology & Didactic solutions. All students should enroll in one of the certification course in every semester

❖ Industrial Training / Internship

Students may undergo training or internship during summer / winter vacation at Industry/ Research organization. students are also permitted to undergo internships during their eighth semester after the theory classes are over

June 2021

Date	Day	Schedule	Working day/ Holiday
1	Tue		
2	Wed		
3	Thu		
4	Fri		
5	Sat		
6	Sun		Holiday
7	Mon		
8	Tue		
9	Wed		
10	Thu	College reopens (Even semester)	
11	Fri		
12	Sat		
13	Sun		Holiday
14	Mon		
15	Tue		
16	Wed		
17	Thu		
18	Fri		
19	Sat		
20	Sun		Holiday
21	Mon		
22	Tue		
23	Wed		
24	Thu		
25	Fri		
26	Sat		
27	Sun		Holiday
28	Mon		
29	Tue		
30	Wed		

Total number of working days :

Total number of holiday :

வெற்றி என்பது, ஸ்சியத்தைப் படிப்படியாகப் புரிந்து கொள்வது - நைட்டிங்கேல்

May 2021

Date	Day	Schedule	Working day/ Holiday
1	Sat		Holiday
2	Sun		Holiday
3	Mon		79
4	Tue		80
5	Wed		81
6	Thu		82
7	Fri		83
8	Sat		Holiday
9	Sun		Holiday
10	Mon	Model exam (CAT-IV) starts (5 units)	
11	Tue		
12	Wed		
13	Thu		
14	Fri	Model exam (CAT-IV) ends	
15	Sat		
16	Sun		Holiday
17	Mon	ESE - Practical examination starts	
18	Tue		
19	Wed		
20	Thu	ESE - Practical examination ends	
21	Fri		
22	Sat		
23	Sun		Holiday
24	Mon		
25	Tue		
26	Wed		
27	Thu	ESE - Theory examination starts	
28	Fri		
29	Sat		
30	Sun		Holiday
31	Mon		

Total number of working days : 05

Total number of holiday : 02

வெற்றி என்பது, ஸ்சியத்தைப் படிப்படியாகப் புரிந்து கொள்வது - நைட்டிங்கேல்

❖ Supplementary Examinations

Supplementary examination is an additional examination conducted within a month of time after declaring the results of ESE. In order to complete the program within 4 years, only the student with maximum of two arrears will be permitted to appear for supplementary examination. The supplementary examination will be conducted in fifth and eighth semester only. For supplementary examination, the continuous assessment marks of the last attempt will be considered.

Benefits

- ❖ More number of students will receive the degree within the stipulated time
- ❖ The industries prefers to recruit students having nil arrears. If the supplementary examinations is conducted then more number of students will be eligible for the recruitment

Punctuality in Attendance

The students are requested to keep up punctuality in attending the college. The late comers will be losing their attendance and in turn the internal marks. Hence all the students are requested to attend the college in time. A student shall be permitted to appear for the End Semester Examination at the end of the semester only if he / she **secures not less than 75% of overall attendance.**

Repeating the Course

A student who secures overall attendance which is less than 60% has to repeat the course with the approval, when it is next offered.

Mentor - Mentee System

In the mentor - mentee system, 30 students are allotted to a tutor who will be taking care of these students. The students are requested to utilize the facility.

The internal marks will be provided fully based on the continuous assessment tests (CAT 1 to 4)

Marks Distribution of Continuous Assessment Marks (CAM) and End Semester Examination Marks (ESM)

Scheme for Continuous Assessment Test

S. No	Course Type	Continuous Assessment components									
		Test Marks	Average of marks for pre/post test/ viva for each experiment	Average of marks for marks for experiment report for each experiment	Model Exam / Report	Assignment	Review - 1	Review - 2	Review - 3	Attendance	Total Marks
1.	Theory	15	-	-	-	5	-	-	-	5	25
2.	Practical	-	10	15	15	-	-	-	-	10	50
3.	Project work	-	-	-	-	-	10	10	20	-	40

Question Paper Pattern

Question paper pattern for CAT and ESE will be based on the patterns shown in Table (a) and (b)

Table (a) Question Paper patterns for CAT

Test Type	2 Marks	5 Marks	10 Marks	Total Marks
CAT 1 to 3	5	4	2 (out of 3 questions)	50
CAT 4	End semester Examination Question Pattern			75

Table (b) Question paper patterns for End Semester Examination (ESE)

2 Marks	5 Marks	10 Marks	Total Marks
10	5 (one questions from each unit)	3 (out of 5 questions)	75

April 2021

Date	Day	Schedule	Working day/ Holiday
1	Thu		55
2	Fri	Good Friday	Holiday
3	Sat		56
4	Sun		Holiday
5	Mon		57
6	Tue		58
7	Wed		59
8	Thu		60
9	Fri		61
10	Sat		62
11	Sun		Holiday
12	Mon		63
13	Tue		64
14	Wed	Tamil New Year / Dr. Ambedkar Jayanthi	Holiday
15	Thu		65
16	Fri		66
17	Sat		67
18	Sun		Holiday
19	Mon	Assignment 3 to be given	68
20	Tue	Feedback from the students & Analysis	69
21	Wed	QCM meeting 1 /IQC meeting / Report Submission	70
22	Thu	CAT - III starts (2 units)	71
23	Fri		72
24	Sat		73
25	Sun		Holiday
26	Mon		74
27	Tue	CAT - III ends	75
28	Wed		76
29	Thu		77
30	Fri		78

Total number of working days : 24

Total number of holiday : 6

அன்றாட வாழ்வின் சாதாரண விஷயங்களையும், அசாதாரண முறையில் செய்யும்போது உலகின் கவனத்தை உன் மீது திருப்ப முடியும். - ஜார்ஜ்வாஷிங்டன் கார்வெர்

March 2021

Date	Day	Schedule	Working day/ Holiday
1	Mon		28
2	Tue	CAT - I ends	29
3	Wed		30
4	Thu		31
5	Fri		32
6	Sat		33
7	Sun		Holiday
8	Mon		34
9	Tue		35
10	Wed		36
11	Thu		37
12	Fri		38
13	Sat		39
14	Sun		Holiday
15	Mon		40
16	Tue		41
17	Wed		42
18	Thu	Assignment 2 to be given	43
19	Fri	Feedback from the students & Analysis,	44
20	Sat	QCM meeting 1 /IQAC meeting / Report Submission	45
21	Sun		Holiday
22	Mon	CAT - II starts (1½ units)	46
23	Tue		47
24	Wed		48
25	Thu		49
26	Fri	CAT - II ends	50
27	Sat		51
28	Sun		Holiday
29	Mon		52
30	Tue		53
31	Wed		54
Total number of working days : 27			
Total number of holiday : 4			
உலகை வெல்வதற்கு, உலகை தெரிந்து கொள்வது முக்கியமல்ல, உன்னை அறிந்து கொள்வதுதான் முக்கியம் . . .			

Distribution of Attendance marks for theory : 5 marks

The distribution of 5 marks for theory class attendance is as follows :

5 marks for 95% attendance and above

4 marks for 90% attendance and above but below 95%

3 marks for 85% attendance and above but below 90%

2 marks for 80% attendance and above but below 85%

1 mark for 75% attendance and above but below 80%

Distribution of Attendance marks for practical : 10 marks

The distribution of 10 marks for practical class attendance is as follows :

10 marks for 95% attendance and above

8 marks for 90% attendance and above but below 95%

6 marks for 85% attendance and above but below 90%

4 marks for 80% attendance and above but below 85%

2 marks for 75% attendance and above but below 80%

Assignments

Out of 25 continuous assessment marks, 5 Marks will be awarded for the assignment. The students have to submit 3 assignments in each subject. The assignment questions will be different for each and every student.

Note :

Continuous assessment mark will be based on the performance of the students in the continuous assessment test. Assignment and attendance percentage.

Importance of Continuous Assessment marks

The continuous assessment marks once earned are carried over to the subsequent exams also. Hence the students are requested to work hard to get the maximum of the continuous assessment marks. If the continuous assessment marks are lower, it will pull down chances of getting the first class, distinction, gold medals and ranks.

Importance of CAT-I/CAT-II/CAT-III/CAT-IV

Continuous assessment marks are awarded for the performance in the CAT-I, CAT-II, CAT-III & CAT-IV. Hence all the students are requested to prepare well for each test / examination to earn the maximum continuous assessment marks.

Undertaking Minor / Major Projects

Each student is advised to take atleast one minor project. Involving in the project will be helping to understand the basics of the subject. Some of the minor / major project will also be benefiting the society. Moreover, the Management awards cash prizes for the best projects in each department.

Participation in the Curricular / Co-curricular / Extra curricular Activities	
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40
41	42
43	44
45	46
47	48
49	50
51	52
53	54
55	56
57	58
59	60
61	62
63	64
65	66
67	68
69	70
71	72
73	74
75	76
77	78
79	80
81	82
83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

All the students are encouraged to participate in the curricular / co-curricular / extra curricular activities. Involvement in these activities will improve their knowledge level in the subject. If a student or a team gets cash prize / award at the technical event organised by the recognised institutions, then the management of this institution will also sanction an amount equivalent to the award / cash prize as a token of appreciation.

Leave Account Record

For each student, leave account record has been provided. The students are instructed to show the leave record to their parents and strictly adhere to the instructions given for availing the leave. The leave account record should be maintained properly and prior approval must be obtained for availing the leave. In exceptional cases, the students are permitted to get the approval after availing the leave.

Transport Facility

56 buses have been arranged for the students to reach the college from Puducherry, Kanagachettikulam, Villupuram, Neyveli, Panruti, Cuddalore, Nellikuppam, Madukarai and Tindivanam covering almost all the areas. Separate transport facility has been arranged for the students who remain in the college after 5 p.m. for utilising computer lab, library and sports facilities. The students are requested to utilise the transport facility.

All the students are requested to avoid mobile phones and travel by two wheelers considering their safety and security.

February 2021

Date	Day	Schedule	Working day Holiday
1	Mon		5
2	Tue		6
3	Wed		7
4	Thu		8
5	Fri		9
6	Sat		Holiday
7	Sun		Holiday
8	Mon		10
9	Tue		11
10	Wed		12
11	Thu		13
12	Fri		14
13	Sat	Induction programme ends	15
14	Sun		Holiday
15	Mon		16
16	Tue		17
17	Wed		18
18	Thu		19
19	Fri		20
20	Sat		21
21	Sun		Holiday
22	Mon	Assignment 1 to be given	22
23	Tue	Feedback from the students & Analysis	23
24	Wed	QCM meeting 1 /IQAC meeting / Report Submission	24
25	Thu	CAT - I starts (1½ units)	25
26	Fri		26
27	Sat		27
28	Sun		Holiday

Total number of working days : 23

Total number of holiday : 5

தனாராத இதயம் உள்ளவனுக்கு, இவ்வலகில் முடியாதது என்று எதுவுமே இல்லை

- புகக்கன்ஸ்

January 2021

Date	Day	Schedule	Working day/ Holiday
1	Fri		Holiday
2	Sat		Holiday
3	Sun		Holiday
4	Mon		
5	Tue		
6	Wed		
7	Thu		
8	Fri		
9	Sat		
10	Sun		Holiday
11	Mon		
12	Tue		
13	Wed		
14	Thu		Holiday
15	Fri		Holiday
16	Sat		Holiday
17	Sun		Holiday
18	Mon		
19	Tue		
20	Wed		
21	Thu		
22	Fri		
23	Sat		
24	Sun		Holiday
25	Mon		
26	Tue	Republic day	Holiday
27	Wed	1 Year Induction Day	1
28	Thu	Induction programme starts	2
29	Fri		3
30	Sat		4
31	Sun		Holiday

Total number of working days : 4

Total number of holiday : 1

நீ வெற்றியடைவதை உன்னைத் தவிர, வேறு யாராலும் தடுக்க முடியாது - ப்ரெமர்

Placement and Training Division

The placement cell functions round the clock throughout the year to establish contact with reputed multinational companies, well established industrial organizations and plays an important role in locating various job opportunities and placing large number of the students every year at these organizations.

Activities of the Training Division

- ☆ Arranges trainings for personality and interpersonal skill development.
- ☆ Assists the students to get in-plant training
- ☆ Arranges industrial visits
- ☆ Creates awareness on the opportunities open for higher studies.
- ☆ Arranges coaching classes for GATE, GRE, TOFEL, IELTS, IAS, IES etc.

Placement Record

Academic Year	Students Placed
2012-13	75%
2013-14	85%
2014-15	95%
2015-16	95%
2016-17	93%
2017-18	95%
2018-19	95%
2019-20	95%

Details of Placed Students : 2020 - 21

1 Kaar	9	12 Makolet	3
2 TCS(Ninja and Digital)	210	13 O2Saver	4
3 Hexaware	15	14 OPPO Mobiles	3
4 Yellow Messenger	4	15 Infosys	1
5 Unisys	1	16 Sutherland	56
6 EmbedUr	1		
7 Virtusa	3		
8 ZOHO	8		
9 CTS	101		
10 Milekel Engineering	1		
11 Mantec Electronic	1	Total	*421

Wi-Fi Campus

* till 31st January 2021

Our campus has been enabled by high speed uninterrupted Wi-Fi connectivity. The Computer Centre is open till 8.00 p.m. on all the working days except on the dates of University examinations.

Library Working Hours

8.30 a.m. to 8.30 p.m. (On all the working days)
8.30 a.m. to 10.00 p.m. (During the examination days)

Women Cell

For the benefit of the girl students, a Women Cell has been constituted in the college. The girl students may approach the Chairperson / members for assistance.

Grievance Redressal Cell

























There is a Grievance Redressal Cell under the Chairmanship of the Director of the institution. Students are requested to approach the Chairman / members to redress their grievances. Mail ID : grievance@smvec.ac.in

Gold Medals and Top Ten Ranks

Your seniors were sincere, hard working and got the Gold medals of the Pondicherry University and the top ten ranks in all the branches. The details of the University Goldmedals and Top Ten Ranks won by the students are given below.

 Indicates the Gold medal and University First Rank.

The Management awards 3 sovereigns of gold to the 1st rank holder, 2 sovereigns to the 2nd rank holder, 1 sovereign to the 3rd rank holder, 4th and 5th rank holders shall receive a cash award of Rs. 10,000/- (Rupees ten thousand) each and 6th to 10th rank holders shall receive a cash award of Rs. 5,000/- (Rupees five thousand) each.

Name of the Course	Year		
	2017	2018	2019
B.Tech. EEE	2, 4, 6, 7		 2,3,4,6,7,8,9,10
B.Tech. ECE	2,3,4,5,6,7,8,9,10		 3,4,5,6,7,9,10
B.Tech. CSE	 2, 3, 4, 10		 2,4,6,7,8,10
B.Tech. IT	 2,3,4,5,6,7,8,9,10		 2,3,5,6,8
B.Tech. ICE	 2,3,4,5,6,7,8,9,10		 2,3,4,5,6,7,8,9,10
B.Tech. Mech	 4, 5, 7, 9, 10		3,7,8,10
B.Tech. Civil	2, 3, 10		2,3,4,6,7,10
MCA	3,4,7,9,10		 2,6,7,8,9,10,11
MBA	 3,4,6,7,8		 2,3,4,5,7,8,10
MTech. CSE	 2, 3, 4, 5, 7, 8, 9		 7
MTech. ECE	2, 3, 6, 7, 8, 9		2,3,4,5
MTech. PED			 2,3
MTech. NW	 2, 3, 4, 5, 7, 8, 9		 2,3
MTech(VLSI)			 2,3,4
MTech(MF)	 2		

Important points for the kind attention of the Parents

Dear Parent

The I semester classes commence on 27th January 2021. The above mentioned semester is a very short term, including working days meant for CAT-IV (Model). The students have to complete a lot of work within a short period. **Hence the parents are kindly requested not to permit their wards to avail frequent leave during this semester period for the following reasons.**

It is compulsory for all the students to complete Six Certificate Courses, Nine Skill Development Courses and Seven Mandatory Courses along with their Academic Courses. These courses will enhance the students to upgrade their required skills to cope up with the Industry.

Marks in the **continuous assessment test** decide the major part of the continuous assessment marks. So, availing leave for the continuous assessment test must be avoided at any cost as this would seriously affect the assessment marks.

Practicals are very important not only to score more marks but also it will help to understand the theory part of the subject, hence advice your ward not to cut the practical classes.

Please spare your **valuable time to talk to your son/daughter every day and try to understand what he/she is doing in respect of his/her studies.** Kindly extend all your support to your son/daughter which will help them to come out successfully. For any assistance from our side you may always feel free to contact the respective Coordinator / HOD any time during the working hours.

Use of Cell Phones

It has been decided **not to permit cell phones inside the college campus**. If any student is found using the cell phone inside the college campus, it would be confiscated and will not be returned back on any circumstances. Hence the students are instructed not to attend the college with the mobile phones.

Dress Code

The students are requested to attend the college neatly dressed. While the male students should attend the college with the shirts neatly tucked in and with the shoes, the female students are permitted to come with churidar and dupatta properly pinned. Students wearing full hand shirts should wear it as such without folding it to half etc. Casual wears like jeans, T-shirts etc., both for boys and girls are strictly prohibited inside the campus. Each department has prescribed uniforms for the labs. The students are requested to strictly adhere to the dress codes as well as the rules and regulations of the college.

Maintenance of Discipline

Discipline is an important factor that shapes one's personality. It is considered as a golden key capable of opening many doors. This institution expects each and every student to follow the rules and regulations in total. Maintaining discipline in the campus will promote a conducive environment for studies.

Working hours

I hr	9.00	to	9.50
II hr	9.50	to	10.40
Break	10.40	to	10.55
III hr	10.55	to	11.45
IV hr	11.45	to	12.35
V hr	1.15	to	2.05
VI hr	2.05	to	2.55
Break	2.55	to	3.10
VII	3.10	to	4.00
VIII	4.00	to	4.50

Lunch break 12.35 p.m. to 1.15 p.m.

SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

(An Autonomous Institution)

(Accredited by NBA-AICTE, New Delhi, NAAC with "A" Grade)

Madagadipet, Puducherry - 605 107



Academic Calendar

March 2021 to July 2021

Name :

Department :

Year / Sem : II Year / IV semester

நீங்கள்



அன்பு செய்யுங்கள், யாருக்கும் அடிமையாகாதீர்கள்;
இரக்கம் காட்டுங்கள், எவரிடத்தும் ஏமாந்துவிடாதீர்கள்;
பணியைப் போற்றுங்கள், எந்த நிலையிலும் கோழையாகாதீர்கள்;
கண்டிப்பாக இருங்கள், எப்போதும் கோபப்படாதீர்கள்;
சிக்கனமாக வாழுங்கள், கருமியாக மாறாதீர்கள்;
வீரமாக இருங்கள், போக்கிரிகளாக மாறாதீர்கள்;
சுறுசுறுப்பாக இருங்கள், பதட்டம் அடையாதீர்கள்;
வொருளைத் தேடுங்கள், பேராசைப் படாதீர்கள்;
உழைப்பை நம்புங்கள், உருப்படுவீர்கள்;
உண்மையை நம்புங்கள், உயர்வடைவீர்கள்!

என்றும் அன்புடன்,
ஆதித்யன்

About Autonomous

Sri Manakula Vinayagar Engineering College has been conferred with Autonomous Status by the University Grants Commission on 26th September 2019 and the same was approved by Pondicherry University on 19th June 2020. The Pondicherry University Regulations R2013 will be followed for the students admitted in the Academic Year 2017 -18 (present Final year) and for the students admitted in the Academic Year 2018 -19 (present Third year). SMVEC Autonomous Regulations R2019, will be followed for the students admitted in the Academic Year 2019-20(present Second Year). SMVEC Autonomous Regulations R2020, will be followed for the students admitted in the Academic Year 2020-21(present first Year)

HIGHLIGHTS OF SMVEC AUTONOMOUS REGULATIONS 2020

- ❖ Industry 4.0 ready curriculum
- ❖ Updated towards skill development to create more job opportunities
- ❖ Multidisciplinary curriculum
- ❖ More entrepreneurship opportunities
- ❖ IELTS model curriculum / Foreign Languages learning opportunities
- ❖ Department wise Gold Medals
- ❖ Results will be declared within a month after completion of examinations

❖ EEC / Mandatory course

The Institute has Established 17 Center of Excellence to provide 75 International Certification courses from IBM, Google, Cisco, E Plan, Microsoft, Autodesk, Texas instruments, Festo, Bentley, Schneider Electric, Amazon web services, Siemens, Tally, DELL EMC², Harita Techserv, PTC, LN an Excellence in Technology & Didactic solutions. All students should enroll in one of the certification course in every semester

❖ Industrial Training / Internship

Students may undergo training or internship during summer / winter vacation at Industry/ Research organization. students are also permitted to undergo internships during their eighth semester after the theory classes are over

July 2021

Date	Day	Schedule	Working day/ Holiday
1	Thu		
2	Fri	ESE - Theory examination starts	
3	Sat		
4	Sun		Holiday
5	Mon		
6	Tue		
7	Wed		
8	Thu		
9	Fri		
10	Sat		
11	Sun		Holiday
12	Mon		
13	Tue		
14	Wed		
15	Thu		
16	Fri		
17	Sat		
18	Sun		Holiday
19	Mon		
20	Tue		
21	Wed		
22	Thu		
23	Fri		
24	Sat		
25	Sun		Holiday
26	Mon		
27	Tue		
28	Wed		
29	Thu		
30	Fri		

Total number of working days :

Total number of holiday :

அன்றாட வாழ்வின் சாதாரண விஷயங்களையும், அசாதாரண முறையில் செய்யும்போது உலகின் கவனத்தை உன் மீது திருப்ப முடியும். - ஜார்ஜ்வாஷிங்டன்கார்வெர்

❖ Supplementary Examinations

Supplementary examination is an additional examination conducted within a month of time after declaring the results of ESE. In order to complete the program within 4 years, only the student with maximum of two arrears will be permitted to appear for supplementary examination. The supplementary examination will be conducted in fifth and eighth semester only. For supplementary examination, the continuous assessment marks of the last attempt will be considered.

Benefits

- ❖ More number of students will receive the degree within the stipulated time
- ❖ The industries prefers to recruit students having nil arrears. If the supplementary examinations is conducted then more number of students will be eligible for the recruitment

Punctuality in Attendance

The students are requested to keep up punctuality in attending the college. The late comers will be losing their attendance and in turn the internal marks. Hence all the students are requested to attend the college in time. A student shall be permitted to appear for the End Semester Examination at the end of the semester only if he / she **secures not less than 75% of overall attendance.**

Repeating the Course

A student who secures overall attendance which is less than 60% has to repeat the semester with the approval, when it is next offered.

Mentor - Mentee System

In the mentor - mentee system, 30 students are allotted to a tutor who will be taking care of these students. The students are requested to utilize the facility.

The internal marks will be provided fully based on the continuous assessment tests (CAT 1 to 3 & Model Exam)

Marks Distribution of Continuous Assessment Marks (CAM) and End Semester Examination Marks (ESM)

Scheme for Continuous Assessment Test

S. No	Course Type	Continuous Assessment components									
		Test Marks	Average of marks for pre/post test/ viva for each experiment	Average of marks for experiment report for each experiment	Model Exam / Report	Assignment	Review - 1	Review - 2	Review - 3	Attendance	Total Marks
1.	Theory	15	-	-	-	5	-	-	-	5	25
2.	Practical	-	10	15	15	-	-	-	-	10	50
3.	Project work	-	-	-	-	-	10	10	20	-	40

Question Paper Pattern

Question paper pattern for CAT and ESE will be based on the patterns shown in Table (a) and (b)

Table (a) Question Paper patterns for CAT

Test Type	2 Marks	5 Marks	10 Marks	Total Marks
CAT 1 to 3	5	4	2 (out of 3 questions)	50
Model Exam	End semester Examination Question Pattern			75

Table (b) Question paper patterns for End semester Examination (ESE)

2 Marks	5 Marks	10 Marks	Total Marks
10	5 (one questions from each unit)	3 (out of 5 questions)	75

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June 2021

Date	Day	Schedule	Working day/ Holiday
1	Tue		65
2	Wed		66
3	Thu		67
4	Fri		68
5	Sat		69
6	Sun		Holiday
7	Mon	ESE - Practical examination starts	
8	Tue		
9	Wed		
10	Thu		
11	Fri		
12	Sat		
13	Sun		Holiday
14	Mon	ESE - Practical examination ends	
15	Tue		
16	Wed		
17	Thu		
18	Fri		
19	Sat		
20	Sun		Holiday
21	Mon		
22	Tue		
23	Wed		
24	Thu		
25	Fri		
26	Sat		
27	Sun		Holiday
28	Mon		
29	Tue		
30	Wed		

Total number of working days : 05

Total number of holiday : 02

வெற்றி என்பது, ஸ்சியத்தைப் படிப்படியாகப் புரிந்து கொள்வது - நைட்டிங்கேல்

May 2021

Date	Day	Schedule	Working day/ Holiday
1	Sat		Holiday
2	Sun		Holiday
3	Mon		40
4	Tue		41
5	Wed		42
6	Thu	Assignment - III	43
7	Fri	Feedback from the students & Analysis	44
8	Sat	QCM meeting 3 /IQAC meeting / Report Submission	45
9	Sun		Holiday
10	Mon	CAT - III starts (2 units)	46
11	Tue		47
12	Wed		48
13	Thu		49
14	Fri		50
15	Sat	CAT - III ends	51
16	Sun		Holiday
17	Mon		52
18	Tue		53
19	Wed		54
20	Thu		55
21	Fri		56
22	Sat		57
23	Sun		Holiday
24	Mon	Model exam starts (5 units)	58
25	Tue		59
26	Wed		60
27	Thu		61
28	Fri		62
29	Sat		63
30	Sun		Holiday
31	Mon	Model exam ends	64

Total number of working days : 25

Total number of holiday : 6

வெற்றி என்பது, ஸ்சியத்தைப் படிப்படியாகப் புரிந்து கொள்வது - நைட்டிங்கேல்

Distribution of Attendance marks for theory : 5 marks

The distribution of 5 marks for theory class attendance is as follows :

5 marks for 95% attendance and above

4 marks for 90% attendance and above but below 95%

3 marks for 85% attendance and above but below 90%

2 marks for 80% attendance and above but below 85%

1 mark for 75% attendance and above but below 80%

Distribution of Attendance marks for practical : 10 marks

The distribution of 10 marks for practical class attendance is as follows :

10 marks for 95% attendance and above

8 marks for 90% attendance and above but below 95%

6 marks for 85% attendance and above but below 90%

4 marks for 80% attendance and above but below 85%

2 marks for 75% attendance and above but below 80%

Continuous Assessment Marks

Continuous assessment mark will be based on the performance of the students in the continuous assessment test, Assignment and attendance percentage.

Importance of Continuous Assessment marks

The continuous assessment marks once earned are carried over to the subsequent exams also. Hence the students are requested to work hard to get the maximum of the continuous assessment marks. If the continuous assessment marks are lower, it will pull down chances of getting the first class, distinction, gold medals and ranks.

Importance of CAT-I/CAT-II/CAT-III/Model Exam

Continuous assessment marks are awarded for the performance in the CAT-I, CAT-II, CAT-III & Model exam. Hence all the students are requested to prepare well for each test / examination to earn the maximum continuous assessment marks.

Participation in the Curricular/Co-curricular / Extra curricular Activities

All the students are encouraged to participate in the curricular / co-curricular / extra curricular activities. Involvement in these activities will improve their knowledge level in the subject. If a student or a team gets cash prize / award at the technical event organised by the recognised institutions, then the management of this institution will also sanction an amount equivalent to the award / cash prize as a token of appreciation.

Leave Account Record

For each student, leave account record has been provided. The students are instructed to show the leave record to their parents and strictly adhere to the instructions given for availing the leave. The leave account record should be maintained properly and prior approval must be obtained for availing the leave. In exceptional cases, the students are permitted to get the approval after availing the leave.

Transport Facility

56 buses have been arranged for the students to reach the college from Puducherry, Kanagachettikulam, Villupuram, Neyveli, Panruti, Cuddalore, Nellikuppam, Madukarai and Tindivanam covering almost all the areas. Separate transport facility has been arranged for the students who remain in the college after 5 p.m. for utilising computer lab, library and sports facilities. The students are requested to utilise the transport facility.

All the students are requested to avoid mobile phones and travel by two wheelers considering their safety and security.

April 2021

Date	Day	Schedule	Working day/ Holiday
1	Thu		16
2	Fri	Good Friday	Holiday
3	Sat		17
4	Sun		Holiday
5	Mon		18
6	Tue		19
7	Wed	CAT - I ends	20
8	Thu		21
9	Fri		22
10	Sat		23
11	Sun		Holiday
12	Mon		24
13	Tue		25
14	Wed	Tamil New Year / Dr. Ambedkar Jayanthi	Holiday
15	Thu	Assignment - II	26
16	Fri	Feedback from the students & Analysis	27
17	Sat	QCM meeting 2 / IQAC meeting / Report Submission	28
18	Sun		Holiday
19	Mon	CAT - II starts (1½ units)	29
20	Tue		30
21	Wed		31
22	Thu		32
23	Fri		33
24	Sat	CAT - II ends	34
25	Sun		Holiday
26	Mon		35
27	Tue		36
28	Wed		37
29	Thu		38
30	Fri		39

Total number of working days : 24

Total number of holiday : 6

அன்றாட வாழ்வின் சாதாரண விஷயங்களையும், அசாதாரண முறையில் செய்யும்போது உலகின் கவனத்தை உன் மீது திருப்ப முடியும். - ஜார்ஜ்வாஷிங்டன் கார்வெர்

March 2021

Date	Day	Schedule	Working day/ Holiday
1	Mon		
2	Tue		
3	Wed		
4	Thu		
5	Fri		
6	Sat		
7	Sun		Holiday
8	Mon		
9	Tue		
10	Wed		
11	Thu		
12	Fri		
13	Sat		
14	Sun		Holiday
15	Mon	II year classes begins	1
16	Tue		2
17	Wed		3
18	Thu		4
19	Fri		5
20	Sat		6
21	Sun		Holiday
22	Mon		7
23	Tue		8
24	Wed		9
25	Thu		10
26	Fri		11
27	Sat	Assignment - I	12
28	Sun		Holiday
29	Mon	Feedback from the students & Analysis	13
30	Tue	QCM meeting 1 /IQAC meeting / Report Submission	14
31	Wed	CAT - I starts (1½ units)	15

Total number of working days : 15

Total number of holiday : 2

உலகை வெல்வதற்கு, உலகை தெரிந்து கொள்வது முக்கியமல்ல,
உன்னை அறிந்து கொள்வதுதான் முக்கியம் . . .

Placement and Training Division

The placement cell functions round the clock throughout the year to establish contact with reputed multinational companies, well established industrial organizations and plays an important role in locating various job opportunities and placing large number of the students every year at these organizations.

Activities of the Training Division

- ☆ Arranges trainings for personality and interpersonal skill development.
- ☆ Assists the students to get in-plant training
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Placement Record

Details of Placed Students : 2020 - 21

Academic Year	Students Placed	1 Kaar	9	12 Makolet	3
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2016-17	93%	6 EmbedUr	1		
2017-18	95%	7 Virtusa	3		
2018-19	95%	8 ZOHO	8		
2019-20	95%	9 CTS	101		
		10 Milekel Engineering	1		
		11 Mantec Electronic	1	Total	*421

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* till 31st January 2021

Our campus has been enabled by high speed uninterrupted Wi-Fi connectivity. The Computer Centre is open till 8.00 p.m. on all the working days except on the dates of University examinations.

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8.30 a.m. to 8.30 p.m. (On all the working days)
8.30 a.m. to 10.00 p.m. (During the examination days)

Women Cell

For the benefit of the girl students, a Women Cell has been constituted in the college. The girl students may approach the Chairperson / members for assistance.

Grievance Redressal Cell

























There is a Grievance Redressal Cell under the Chairmanship of the Director of the institution. Students are requested to approach the Chairman / members to redress their grievances. Mail ID : grievance@smvec.ac.in

Gold Medals and Top Ten Ranks

Your seniors were sincere, hard working and got the Gold medals of the Pondicherry University and the top ten ranks in all the branches. The details of the University Goldmedals and Top Ten Ranks won by the students are given below.

 Indicates the Gold medal and University First Rank.

The Management awards 3 sovereigns of gold to the 1st rank holder, 2 sovereigns to the 2nd rank holder, 1 sovereign to the 3rd rank holder, 4th and 5th rank holders shall receive a cash award of Rs. 10,000/- (Rupees ten thousand) each and 6th to 10th rank holders shall receive a cash award of Rs. 5,000/- (Rupees five thousand) each.

Name of the Course	Year		
	2017	2018	2019
B.Tech. EEE	2, 4, 6, 7		 2,3,4,6,7,8,9,10
B.Tech. ECE	2,3,4,5,6,7,8,9,10		 ,3,4,5,6,7,9,10
B.Tech. CSE	 ,2, 3, 4, 10		 ,2,4,6,7,8,10
B.Tech. IT	 ,2,3,4,5,6,7,8,9,10		 2,3,5,6,8
B.Tech. ICE	 ,2,3,4,5,6,7,8,9,10		 2,3,4,5,6,7,8,9,10
B.Tech. Mech	 ,4, 5, 7, 9, 10		3,7,8,10
B.Tech. Civil	2, 3, 10		2,3,4,6,7,10
MCA	3,4,7,9,10		 2,6,7,8,9,10,11
MBA	 3,4,6,7,8		 2,3,4,5,7,8,10
MTech. CSE	 2, 3,4,5,7,8,9		 ,7
MTech. ECE	2, 3, 6, 7, 8, 9		2,3,4,5
MTech. PED			 ,2,3
MTech. NW	 2, 3,4,5,7,8,9		 ,2,3
MTech(VLSI)			 ,2,3,4
MTech(MF)	 ,2		

Important points for the kind attention of the Parents

Dear Parent

The IV semester classes commence on 15th March 2021. The above mentioned semester is a very short term, including working days meant for CAT-IV. The students have to complete a lot of work within a short period. **Hence the parents are kindly requested not to permit their wards to avail frequent leave during this semester period for the following reasons.**

IV Semester (II Year): All the IV semester papers are considered as problematic (toughest) papers. Hence, regular attendance and more concentration are required to clear these IV semester papers.

Marks in the **continuous assessment test** decide the major part of the continuous assessment marks. So, availing leave for the continuous assessment test must be avoided at any cost as this would seriously affect the assessment marks.

Practicals are very important not only to score more marks but also it will help to understand the theory part of the subject, hence advice your ward not to cut the practical classes.

Please spare your **valuable time to talk to your son/daughter every day and try to understand what he/she is doing in respect of his/her studies.** Kindly extend all your support to your son/daughter which will help them to come out successfully. For any assistance from our side you may always feel free to contact the respective Coordinator / HOD any time during the working hours.

Use of Cell Phones

It has been decided **not to permit cell phones inside the college campus**. If any student is found using the cell phone inside the college campus, it would be confiscated and will not be returned back on any circumstances. Hence the students are instructed not to attend the college with the mobile phones.

Dress Code

The students are requested to attend the college neatly dressed. While the male students should attend the college with the shirts neatly tucked in and with the shoes, the female students are permitted to come with churidar and dupatta properly pinned. Students wearing full hand shirts should wear it as such without folding it to half etc. Casual wears like jeans, T-shirts etc., both for boys and girls are strictly prohibited inside the campus. Each department has prescribed uniforms for the labs. The students are requested to strictly adhere to the dress codes as well as the rules and regulations of the college.

Maintenance of Discipline

Discipline is an important factor that shapes one's personality. It is considered as a golden key capable of opening many doors. This institution expects each and every student to follow the rules and regulations in total. Maintaining discipline in the campus will promote a conducive environment for studies.

Working hours

I hr	9.00	to	9.50
II hr	9.50	to	10.40
Break	10.40	to	10.55
III hr	10.55	to	11.45
IV hr	11.45	to	12.35
V hr	1.15	to	2.05
VI hr	2.05	to	2.55
Break	2.55	to	3.10
VII	3.10	to	4.00
VIII	4.00	to	4.50

Lunch break 12.35 p.m. to 1.15 p.m.

SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

(An Autonomous Institution)

(Accredited by NBA-AICTE, New Delhi, NAAC with "A" Grade)

Madagadipet, Puducherry - 605 107



Academic Calendar

March 2021 to July 2021

Name :

Department :

Year / Sem : III Year / VI semester

நீங்கள்



அன்பு செய்யுங்கள், யாருக்கும் அடிமையாகாதீர்கள்;
இரக்கம் காட்டுங்கள், எவரிடத்தும் ஏமாந்துவிடாதீர்கள்;
பணியைப் போற்றுங்கள், எந்த நிலையிலும் கோழையாகாதீர்கள்;
கண்டிப்பாக இருங்கள், எப்போதும் கோபப்படாதீர்கள்;
சிக்கனமாக வாழுங்கள், கருமியாக மாறாதீர்கள்;
வீரமாக இருங்கள், போக்கிரிகளாக மாறாதீர்கள்;
சுறுசுறுப்பாக இருங்கள், பதட்டம் அடையாதீர்கள்;
வாயுளைத் தேடுங்கள், பேராசைப் படாதீர்கள்;
உழைப்பை நம்புங்கள், உருப்படுவீர்கள்;
உண்மையை நம்புங்கள், உயர்வடைவீர்கள்!

என்றும் அன்புடன்,
ஆதித்யன்

About Autonomous

Sri Manakula Vinayagar Engineering College has been conferred with Autonomous Status by the University Grants Commission on 26th September 2019 and the same was approved by Pondicherry University on 19th June 2020. The Pondicherry University Regulations R2013 will be followed for the students admitted in the Academic Year 2017 -18 (present Final year) and for the students admitted in the Academic Year 2018 -19 (present Third year). SMVEC Autonomous Regulations R2019, will be followed for the students admitted in the Academic Year 2019-20(present Second Year). SMVEC Autonomous Regulations R2020, will be followed for the students admitted in the Academic Year 2020-21(present first Year)

HIGHLIGHTS OF SMVEC AUTONOMOUS REGULATIONS 2020

- ❖ Industry 4.0 ready curriculum
- ❖ Updated towards skill development to create more job opportunities
- ❖ Multidisciplinary curriculum
- ❖ More entrepreneurship opportunities
- ❖ IELTS model curriculum / Foreign Languages learning opportunities
- ❖ Department wise Gold Medals
- ❖ Results will be declared within a month after completion of examinations

❖ EEC / Mandatory course

The Institute has Established 17 Center of Excellence to provide 75 International Certification courses from IBM, Google, Cisco, E Plan, Microsoft, Autodesk, Texas instruments, Festo, Bentley, Schneider Electric, Amazon web services, Siemens, Tally, DELL EMC², Harita Techserv, PTC, LN an Excellence in Technology & Didactic solutions. All students should enroll in one of the certification course in every semester

❖ Industrial Training / Internship

Students may undergo training or internship during summer / winter vacation at Industry/ Research organization. students are also permitted to undergo internships during their eighth semester after the theory classes are over

July 2021

Date	Day	Schedule	Working day/ Holiday
1	Thu		
2	Fri	ESE - Theory examination starts	
3	Sat		
4	Sun		Holiday
5	Mon		
6	Tue		
7	Wed		
8	Thu		
9	Fri		
10	Sat		
11	Sun		Holiday
12	Mon		
13	Tue		
14	Wed		
15	Thu		
16	Fri		
17	Sat		
18	Sun		Holiday
19	Mon		
20	Tue		
21	Wed		
22	Thu		
23	Fri		
24	Sat		
25	Sun		Holiday
26	Mon		
27	Tue		
28	Wed		
29	Thu		
30	Fri		

Total number of working days :

Total number of holiday :

அன்றாட வாழ்வின் சாதாரண விஷயங்களையும், அசாதாரண முறையில் செய்யும்போது உலகின் கவனத்தை உன் மீது திருப்ப முடியும். - ஜார்ஜ்வாஷிங்டன்கார்வெர்

❖ Supplementary Examinations

Supplementary examination is an additional examination conducted within a month of time after declaring the results of ESE. In order to complete the program within 4 years, only the student with maximum of two arrears will be permitted to appear for supplementary examination. The supplementary examination will be conducted in fifth and eighth semester only. For supplementary examination, the continuous assessment marks of the last attempt will be considered.

Benefits

- ❖ More number of students will receive the degree within the stipulated time
- ❖ The industries prefers to recruit students having nil arrears. If the supplementary examinations is conducted then more number of students will be eligible for the recruitment

Punctuality in Attendance

The students are requested to keep up punctuality in attending the college. The late comers will be losing their attendance and in turn the internal marks. Hence all the students are requested to attend the college in time. A student shall be permitted to appear for the End Semester Examination at the end of the semester only if he / she **secures not less than 75% of overall attendance.**

Repeating the Course

A student who secures overall attendance which is less than 60% has to repeat the semester with the approval, when it is next offered.

Mentor - Mentee

In the mentor - mentee system, 30 students are allotted to a tutor who will be taking care of these students. The students are requested to utilize the facility.

The internal marks will be provided fully based on the continuous assessment tests (CAT 1 to 3 & Model Exam)

Marks Distribution of Continuous Assessment Marks (CAM) and End Semester Examination Marks (ESM)

Scheme for Continuous Assessment Test

S. No	Course Type	Continuous Assessment components					
		Test Marks	Periodic practical works & record submitted	Internal practical examination	Viva voce	Attendance	Total Marks
1.	Theory	20	-			5	25
2.	Practical	-	20	15	5	10	50

Question Paper Pattern

Question paper pattern for CAT and ESE will be based on the patterns shown in Table (a) and (b)

Table (a) Question Paper patterns for CAT

Test Type	2 Marks	10 Marks	Total Marks
CAT 1 to 3	10	3 (out of 4 questions)	50
Model Exam	End semester Examination Question Pattern		75

Table (b) Question paper patterns for End Semester Examination (ESE)

2 Marks	11 Marks	Total Marks
10	5 (either or type)	75

June 2021

Date	Day	Schedule	Working day/ Holiday
1	Tue		65
2	Wed		66
3	Thu		67
4	Fri		68
5	Sat		69
6	Sun		Holiday
7	Mon	ESE - Practical examination starts	
8	Tue		
9	Wed		
10	Thu		
11	Fri		
12	Sat		
13	Sun		Holiday
14	Mon	ESE - Practical examination ends	
15	Tue		
16	Wed		
17	Thu		
18	Fri		
19	Sat		
20	Sun		Holiday
21	Mon		
22	Tue		
23	Wed		
24	Thu		
25	Fri		
26	Sat		
27	Sun		Holiday
28	Mon		
29	Tue		
30	Wed		

Total number of working days : 05

Total number of holiday : 02

வெற்றி என்பது, லட்சியத்தைப் படிப்படியாகப் புரிந்து கொள்வது - நைட்டிங்கேல்

May 2021

Date	Day	Schedule	Working day/ Holiday
1	Sat		Holiday
2	Sun		Holiday
3	Mon		40
4	Tue		41
5	Wed		42
6	Thu		43
7	Fri	Feedback from the students & Analysis	44
8	Sat	QCM meeting 3 /IQAC meeting / Report Submission	45
9	Sun		Holiday
10	Mon	CAT - III starts (2 units)	46
11	Tue		47
12	Wed		48
13	Thu		49
14	Fri	CAT - III ends	50
15	Sat		51
16	Sun		Holiday
17	Mon		52
18	Tue		53
19	Wed		54
20	Thu		55
21	Fri		56
22	Sat		57
23	Sun		Holiday
24	Mon	Model exam starts (5 units)	58
25	Tue		59
26	Wed		60
27	Thu		61
28	Fri	Model exam ends	62
29	Sat		63
30	Sun		Holiday
31	Mon		64

Total number of working days : 25

Total number of holiday : 6

வெற்றி என்பது, ஸ்சியத்தைப் படிப்படியாகப் புரிந்து கொள்வது - தைட்டிங்கேல்

Distribution of Attendance marks for theory : 5 marks

The distribution of 5 marks for theory class attendance is as follows :

5 marks for 95% attendance and above

4 marks for 90% attendance and above but below 95%

3 marks for 85% attendance and above but below 90%

2 marks for 80% attendance and above but below 85%

1 mark for 75% attendance and above but below 80%

Distribution of Attendance marks for practical : 10 marks

The distribution of 10 marks for practical class attendance is as follows :

10 marks for 95% attendance and above

8 marks for 90% attendance and above but below 95%

6 marks for 85% attendance and above but below 90%

4 marks for 80% attendance and above but below 85%

2 marks for 75% attendance and above but below 80%

Continuous Assessment Mark

Continuous assessment mark will be based on the performance of the students in the continuous assessment test. Assignment and attendance percentage.

Importance of Continuous Assessment marks

The continuous assessment marks once earned are carried over to the subsequent exams also. Hence the students are requested to work hard to get the maximum of the continuous assessment marks. If the continuous assessment marks are lower, it will pull down chances of getting the first class, distinction, gold medals and ranks.

Importance of CAT-I/CAT-II/CAT-III/ Model Exam

Continuous assessment marks are awarded for the performance in the CAT-I, CAT-II, CAT-III & Model exam. Hence all the students are requested to prepare well for each test / examination to earn the maximum continuous assessment marks.

Undertaking Minor / Major Projects

Each student is advised to take atleast one minor project. Involving in the project will be helping to understand the basics of the subject. Some of the minor / major project will also be benefiting the society. Moreover, the Management awards cash prizes for the best projects in each department.

Participation in the Curricular / Co-curricular / Extra curricular Activities

All the students are encouraged to participate in the curricular / co-curricular / extra curricular activities. Involvement in these activities will improve their knowledge level in the subject. If a student or a team gets cash prize / award at the technical event organised by the recognised institutions, then the management of this institution will also sanction an amount equivalent to the award / cash prize as a token of appreciation.

Leave Account Record

For each student, leave account record has been provided. The students are instructed to show the leave record to their parents and strictly adhere to the instructions given for availing the leave. The leave account record should be maintained properly and prior approval must be obtained for availing the leave. In exceptional cases, the students are permitted to get the approval after availing the leave.

Transport Facility

56 buses have been arranged for the students to reach the college from Puducherry, Kanagachettikulam, Villupuram, Neyveli, Panruti, Cuddalore, Nellikuppam, Madukarai and Tindivanam covering almost all the areas. Separate transport facility has been arranged for the students who remain in the college after 5 p.m. for utilising computer lab, library and sports facilities. The students are requested to utilise the transport facility.

All the students are requested to avoid mobile phones and travel by two wheelers considering their safety and security.

April 2021

Date	Day	Schedule	Working day/ Holiday
1	Thu		16
2	Fri	Good Friday	Holiday
3	Sat		17
4	Sun		Holiday
5	Mon		18
6	Tue	CAT - I ends	19
7	Wed		20
8	Thu		21
9	Fri		22
10	Sat		23
11	Sun		Holiday
12	Mon		24
13	Tue		25
14	Wed	Tamil New Year / Dr. Ambedkar Jayanthi	Holiday
15	Thu		26
16	Fri	Feedback from the students & Analysis	27
17	Sat	QCM meeting 2 / IQAC meeting / Report Submission	28
18	Sun		Holiday
19	Mon	CAT - II starts (1½ units)	29
20	Tue		30
21	Wed		31
22	Thu		32
23	Fri	CAT - II ends	33
24	Sat		34
25	Sun		Holiday
26	Mon		35
27	Tue		36
28	Wed		37
29	Thu		38
30	Fri		39

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March 2021

Date	Day	Schedule	Working day/ Holiday
1	Mon		
2	Tue		
3	Wed		
4	Thu		
5	Fri		
6	Sat		
7	Sun		Holiday
8	Mon		
9	Tue		
10	Wed		
11	Thu		
12	Fri		
13	Sat		
14	Sun		Holiday
15	Mon	III year classes begins	1
16	Tue		2
17	Wed		3
18	Thu		4
19	Fri		5
20	Sat		6
21	Sun		Holiday
22	Mon		7
23	Tue		8
24	Wed		9
25	Thu		10
26	Fri		11
27	Sat		12
28	Sun		Holiday
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30	Tue	QCM meeting 1 /IQAC meeting / Report Submission	14
31	Wed	CAT - I starts (1½ units)	15

Total number of working days : 15

Total number of holiday : 2

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- ☆ Arranges trainings for personality and interpersonal skill development.
- ☆ Assists the students to get in-plant training
- ☆ Arranges industrial visits
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Details of Placed Students : 2020 - 21

Academic Year	Students Placed	1 Kaar	9	12 Makolet	3
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* till 31st January 2021

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There is a Grievance Redressal Cell under the Chairmanship of the Director of the institution. Students are requested to approach the Chairman / members to redress their grievances. Mail ID : grievance@smvec.ac.in

Gold Medals and Top Ten Ranks

Your seniors were sincere, hard working and got the Gold medals of the Pondicherry University and the top ten ranks in all the branches. The details of the University Goldmedals and Top Ten Ranks won by the students are given below.

 Indicates the Gold medal and University First Rank.

The Management awards 3 sovereigns of gold to the 1st rank holder, 2 sovereigns to the 2nd rank holder, 1 sovereign to the 3rd rank holder, 4th and 5th rank holders shall receive a cash award of Rs. 10,000/- (Rupees ten thousand) each and 6th to 10th rank holders shall receive a cash award of Rs. 5,000/- (Rupees five thousand) each.

Name of the Course	Year		
	2017	2018	2019
B.Tech. EEE	2, 4, 6, 7		 2,3,4,6,7,8,9,10
B.Tech. ECE	2,3,4,5,6,7,8,9,10		 ,3,4,5,6,7,9,10
B.Tech. CSE	 ,2, 3, 4, 10		 ,2,4,6,7,8,10
B.Tech. IT	 ,2,3,4,5,6,7,8,9,10		 2,3,5,6,8
B.Tech. ICE	 ,2,3,4,5,6,7,8,9,10		 2,3,4,5,6,7,8,9,10
B.Tech. Mech	 ,4, 5, 7, 9, 10		3,7,8,10
B.Tech. Civil	2, 3, 10		2,3,4,6,7,10
MCA	3,4,7,9,10		 2,6,7,8,9,10,11
MBA	 3,4,6,7,8		 2,3,4,5,7,8,10
MTech. CSE	 2, 3,4,5,7,8,9		 ,7
MTech. ECE	2, 3, 6, 7, 8, 9		2,3,4,5
MTech. PED			 ,2,3
MTech. NW	 2, 3,4,5,7, 8,9		 ,2,3
MTech(VLSI)			 ,2,3,4
MTech(MF)	 ,2		

Important points for the kind attention of the Parents

Dear Parent

The VI semester classes commence on 15th March 2021. The above mentioned semester is a very short term, including working days meant for CAT-IV. The students have to complete a lot of work within a short period. **Hence the parents are kindly requested not to permit their wards to avail frequent leave during this semester period for the following reasons.**

VI Semester (III year): More number of training programs are proposed to be offered to enable the students to face the **campus interviews with confidence**. Attending these training programs is most important for **getting campus placement**. Apart from attending these trainings, **the students have to devote their time and energy to prepare for the End Semester Examinations during this semester.**

Marks in the **continuous assessment test** decide the major part of the continuous assessment marks. So, availing leave for the continuous assessment test must be avoided at any cost as this would seriously affect the assessment marks.

Practicals are very important not only to score more marks but also it will help to understand the theory part of the subject, hence advice your ward not to cut the practical classes.

Please spare your **valuable time to talk to your son/daughter every day and try to understand what he/she is doing in respect of his/her studies**. Kindly extend all your support to your son/daughter which will help them to come out successfully. For any assistance from our side you may always feel free to contact the respective Coordinator / HOD any time during the working hours.

Use of Cell Phones

It has been decided **not to permit cell phones inside the college campus**. If any student is found using the cell phone inside the college campus, it would be confiscated and will not be returned back on any circumstances. Hence the students are instructed not to attend the college with the mobile phones.

Dress Code

The students are requested to attend the college neatly dressed. While the male students should attend the college with the shirts neatly tucked in and with the shoes, the female students are permitted to come with churidar and dupatta properly pinned. Students wearing full hand shirts should wear it as such without folding it to half etc. Casual wears like jeans, T-shirts etc., both for boys and girls are strictly prohibited inside the campus. Each department has prescribed uniforms for the labs. The students are requested to strictly adhere to the dress codes as well as the rules and regulations of the college.

Maintenance of Discipline

Discipline is an important factor that shapes one's personality. It is considered as a golden key capable of opening many doors. This institution expects each and every student to follow the rules and regulations in total. Maintaining discipline in the campus will promote a conducive environment for studies.

Working hours

I hr	9.00	to	9.50
II hr	9.50	to	10.40
Break	10.40	to	10.55
III hr	10.55	to	11.45
IV hr	11.45	to	12.35
V hr	1.15	to	2.05
VI hr	2.05	to	2.55
Break	2.55	to	3.10
VII	3.10	to	4.00
VIII	4.00	to	4.50

Lunch break 12.35 p.m. to 1.15 p.m.

SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

(An Autonomous Institution)

(Accredited by NBA-AICTE, New Delhi, NAAC with "A" Grade)

Madagadipet, Puducherry - 605 107



Academic Calendar

February 2021 to May 2021

Name :

Department :

Year / Sem : IV year / VIII semester

நீங்கள்



அன்பு செய்ப்புங்கள், யாருக்கும் அடிமையாகாதீர்கள்;
இரக்கம் காட்டுங்கள், எவரிடத்தும் ஏமாந்துவிடாதீர்கள்;
பணியைப் போற்றுங்கள், எந்த நிலையிலும் கோழையாகாதீர்கள்;
கண்டிப்பாக இருங்கள், எப்போதும் கோபப்படாதீர்கள்;
சிக்கனமாக வாழுங்கள், கருமியாக மாறுதீர்கள்;
வீரமாக இருங்கள், போக்கிரிகளாக மாறுதீர்கள்;
சுறுசுறுப்பாக இருங்கள், பதட்டம் அடையாதீர்கள்;
வாகுளைத் தேடுங்கள், பேராசைப் படாதீர்கள்;
உழைப்பை நம்புங்கள், உருப்படுவீர்கள்;
உண்மையை நம்புங்கள், உயர்வடைவீர்கள்!

என்றும் அன்புடன்,
ஆதித்யன்.

About Autonomous

Sri Manakula Vinayagar Engineering College has been conferred with Autonomous Status by the University Grants Commission on 26th September 2019 and the same was approved by Pondicherry University on 19th June 2020. The Pondicherry University Regulations R2013 will be followed for the students admitted in the Academic Year 2017 -18 (present Final year) and for the students admitted in the Academic Year 2018 -19 (present Third year). SMVEC Autonomous Regulations R2019, will be followed for the students admitted in the Academic Year 2019-20(present Second Year). SMVEC Autonomous Regulations R2020, will be followed for the students admitted in the Academic Year 2020-21(present first Year)

HIGHLIGHTS OF SMVEC AUTONOMOUS REGULATIONS 2020

- ❖ Industry 4.0 ready curriculum
- ❖ Updated towards skill development to create more job opportunities
- ❖ Multidisciplinary curriculum
- ❖ More entrepreneurship opportunities
- ❖ IELTS model curriculum / Foreign Languages learning opportunities
- ❖ Department wise Gold Medals
- ❖ Results will be declared within a month after completion of examinations

❖ Ethnotech / Mandatory course

The Institute has Established 17 Center of Excellence to provide 75 International Certification courses from IBM, Google, Cisco, E Plan, Microsoft, Autodesk, Texas instruments, Festo, Bentley, Schneider Electric, Amazon web services, Siemens, Tally, DELL EMC², Harita Techserv, PTC, LN an Excellence in Technology & Didactic solutions. All students should enroll in one of the certification course in every semester

❖ Industrial Training / Internship

Students may undergo training or internship during summer / winter vacation at Industry/ Research organization. students are also permitted to undergo internships during their eighth semester after the theory classes are over

❖ **Supplementary Examinations**

Supplementary examination is an additional examination conducted within a month of time after declaring the results of ESE. In order to complete the program within 4 years, only the student with maximum of two arrears will be permitted to appear for supplementary examination. The supplementary examination will be conducted in fifth and eighth semester only. For supplementary examination, the continuous assessment marks of the last attempt will be considered.

Benefits

- ❖ More number of students will receive the degree within the stipulated time
- ❖ The industries prefers to recruit students having nil arrears. If the supplementary examinations is conducted then more number of students will be eligible for the recruitment

❖ **Photo copy of answer book**

After the publication of the result, photocopy of the answer books shall be provided to the student on request with stipulated fee fixed by the College from time to time

Punctuality in Attendance

The students are requested to keep up punctuality in attending the college. The late comers will be losing their attendance and in turn the internal marks. Hence all the students are requested to attend the college in time. A student shall be permitted to appear for the End Semester Examination at the end of the semester only if he / she **secures not less than 75% of overall attendance.**

Repeating the Course

A student who secures overall attendance which is less than 60% has to repeat the course with the approval, when it is next offered.

Mentor - Mentee System

In the mentor - mentee system, 30 students are allotted to a tutor who will be taking care of these students. The students are requested to utilize the facility.

The internal marks will be provided fully based on the continuous assessment tests (CAT 1 to 4)

Marks Distribution of Continuous Assessment Marks (CAM) and End Semester Examination Marks (ESM)

Scheme for Continuous Assessment Test

S. No	Course Type	Continuous Assessment components					
		Test Marks	Periodic practical works & record submitted	Internal practical examination	Viva voce	Attendance	Total Marks
1.	Theory	20	-			5	25
2.	Practical	-	20	15	5	10	50

Question Paper Pattern

Question paper pattern for CAT and ESE will be based on the patterns shown in Table (a) and (b)

Table (a) Question Paper patterns for CAT

Test Type	2 Marks	10 Marks	Total Marks
CAT 1 to 3	10	3 (out of 4 questions)	50
CAT 4	End semester Examination Question Pattern		75

Table (b) Question paper patterns for End Semester Examination (ESE)

2 Marks	11 Marks	Total Marks
10	5 (either or type)	75

May 2021

Date	Day	Schedule	Working day/ Holiday
1	Sat		Holiday
2	Sun		Holiday
3	Mon	Model exam starts (5 units)	64
4	Tue		65
5	Wed		66
6	Thu	Model exam ends	67
7	Fri		68
8	Sat		69
9	Sun		Holiday
10	Mon		
11	Tue		
12	Wed	ESE - Practical examination starts	
13	Thu		
14	Fri		
15	Sat	ESE - Practical examination ends	
16	Sun		Holiday
17	Mon	Study holiday starts	
18	Tue		
19	Wed		
20	Thu		
21	Fri		
22	Sat	Study holiday ends	
23	Sun		Holiday
24	Mon	ESE - Theory examination starts	
25	Tue		
26	Wed		
27	Thu		
28	Fri		
29	Sat		
30	Sun		
31	Mon	ESE - Theory examination ends	

Total number of working days : 6

Total number of holiday : 5

வெற்றி என்பது, ஸ்டீயத்தைப் படிப்படியாகப் புரிந்து கொள்வது - நைட்டிங்கேல்

April 2021

Date	Day	Schedule	Working day/ Holiday
1	Thu	Feedback from the students & Analysis	40
2	Fri	Good Friday	Holiday
3	Sat	Project work / QCM meeting 1 /IQAC meeting / Report Submission	41
4	Sun		Holiday
5	Mon	CAT - II starts (1½ units)	42
6	Tue		43
7	Wed		44
8	Thu	CAT - II ends	45
9	Fri	Project review -2 (Phase II)	46
10	Sat	Project review -2 (Phase II)	47
11	Sun		Holiday
12	Mon		48
13	Tue		49
14	Wed	Tamil New Year / Dr. Ambedkar Jayanthi	Holiday
15	Thu		50
16	Fri		51
17	Sat		52
18	Sun		Holiday
19	Mon	Feedback from the students & Analysis	53
20	Tue	QCM meeting 1 /IQAC meeting / Report Submission	54
21	Wed	CAT - III starts (2 units)	55
22	Thu		56
23	Fri	Project work	57
24	Sat	CAT - III ends / Project work	58
25	Sun		Holiday
26	Mon		59
27	Tue		60
28	Wed		61
29	Thu		62
30	Fri	Project review - 3 (Phase II)	63

Total number of working days : 24

Total number of holiday : 6

அன்றாட வாழ்வின் சாதாரண விஷயங்களையும், அசாதாரண முறையில் செய்யும்போது உலகின் கவனத்தை உன் மீது திருப்ப முடியும். - ஜார்ஜ்வாஷிங்டன்கார்வெர்

Distribution of Attendance marks for theory : 5 marks

The distribution of 5 marks for theory class attendance is as follows :

5 marks for 95% attendance and above

4 marks for 90% attendance and above but below 95%

3 marks for 85% attendance and above but below 90%

2 marks for 80% attendance and above but below 85%

1 mark for 75% attendance and above but below 80%

Distribution of Attendance marks for practical : 10 marks

The distribution of 10 marks for practical class attendance is as follows :

10 marks for 95% attendance and above

8 marks for 90% attendance and above but below 95%

6 marks for 85% attendance and above but below 90%

4 marks for 80% attendance and above but below 85%

2 marks for 75% attendance and above but below 80%

Note :

Continuous assessment mark will be based on the performance of the students in the continuous assessment test and attendance percentage.

Importance of Continuous Assessment marks

The continuous assessment marks once earned are carried over to the subsequent exams also. Hence the students are requested to work hard to get the maximum of the continuous assessment marks. If the continuous assessment marks are lower, it will pull down chances of getting the first class, distinction, gold medals and ranks.

Importance of CAT-I/CAT-II/CAT-III/CAT-IV

Continuous assessment marks are awarded for the performance in the CAT-I, CAT-II, CAT-III & CAT-IV (Model exam). Hence all the students are requested to prepare well for each test / examination to earn the maximum continuous assessment marks.

Undertaking Minor / Major Projects

Each student is advised to take atleast one minor project. Involving in the project will be helping to understand the basics of the subject. Some of the minor / major project will also be benefiting the society. Moreover, the Management awards cash prizes for the best projects in each department.

Participation in the Curricular / Co-curricular / Extra curricular Activities	
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40
41	42
43	44
45	46
47	48
49	50
51	52
53	54
55	56
57	58
59	60
61	62
63	64
65	66
67	68
69	70
71	72
73	74
75	76
77	78
79	80
81	82
83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

All the students are encouraged to participate in the curricular / co-curricular / extra curricular activities. Involvement in these activities will improve their knowledge level in the subject. If a student or a team gets cash prize / award at the technical event organised by the recognised institutions, then the management of this institution will also sanction an amount equivalent to the award / cash prize as a token of appreciation.

Leave Account Record

For each student, leave account record has been provided. The students are instructed to show the leave record to their parents and strictly adhere to the instructions given for availing the leave. The leave account record should be maintained properly and prior approval must be obtained for availing the leave. In exceptional cases, the students are permitted to get the approval after availing the leave.

Transport Facility

56 buses have been arranged for the students to reach the college from Puducherry, Kanagachettikulam, Villupuram, Neyveli, Panruti, Cuddalore, Nellikuppam, Madukarai and Tindivanam covering almost all the areas. Separate transport facility has been arranged for the students who remain in the college after 5 p.m. for utilising computer lab, library and sports facilities. The students are requested to utilise the transport facility.

All the students are requested to avoid mobile phones and travel by two wheelers considering their safety and security.

March 2021

Date	Day	Schedule	Working day/ Holiday
1	Mon		13
2	Tue		14
3	Wed		15
4	Thu		16
5	Fri		17
6	Sat		18
7	Sun		Holiday
8	Mon		19
9	Tue		20
10	Wed		21
10	Thu		22
12	Fri	Project review -1(Phase II) /Feedback from the students & Analysis	23
13	Sat	Project review -1(Phase II)/QCM meeting1/IQAC meeting/Report Submission	24
14	Sun		Holiday
15	Mon	CAT - I starts (1½ units)	25
16	Tue		26
17	Wed		27
18	Thu	CAT - I ends	28
19	Fri	Project work	29
20	Sat	Project work	30
21	Sun		Holiday
22	Mon		31
23	Tue		32
24	Wed		33
25	Thu		34
26	Fri	Project work	35
27	Sat	Project work	36
28	Sun		Holiday
29	Mon		37
30	Tue		38
31	Wed		39
Total number of working days : 27			
Total number of holiday : 4			
உலகை வெல்வதற்கு, உலகை தெரிந்து கொள்வது முக்கியமல்ல, உன்னை அறிந்து கொள்வதுதான் முக்கியம் . . .			

February 2021

Date	Day	Schedule	Working day/ Holiday
1	Mon		
2	Tue		
3	Wed		
4	Thu		
5	Fri		
6	Sat		
7	Sun		Holiday
8	Mon		
9	Tue		
10	Wed		
10	Thu		
12	Fri		
13	Sat		
14	Sun		Holiday
15	Mon	College reopens	1
16	Tue		2
17	Wed		3
18	Thu		4
19	Fri		5
20	Sat		6
21	Sun		Holiday
22	Mon		7
23	Tue		8
24	Wed		9
25	Thu		10
26	Fri		11
27	Sat		12
28	Sun		Holiday

Total number of working days : 12

Total number of holiday : 2

தனராது இதயம் உள்வனாக்கு, இவ்வுலகில் முடியாதது என்று எதுவுமே இல்லை

- புக்கன்ஸ்

Placement and Training Division

The placement cell functions round the clock throughout the year to establish contact with reputed multinational companies, well established industrial organizations and plays an important role in locating various job opportunities and placing large number of the students every year at these organizations.

Activities of the Training Division

- ☆ Arranges trainings for personality and interpersonal skill development.
- ☆ Assists the students to get in-plant training
- ☆ Arranges industrial visits
- ☆ Creates awareness on the opportunities open for higher studies.
- ☆ Arranges coaching classes for GATE, GRE, TOFEL, IELTS, IAS, IES etc.

Placement Record

Academic Year	Students Placed
2012-13	75%
2013-14	85%
2014-15	95%
2015-16	95%
2016-17	93%
2017-18	95%
2018-19	95%
2019-20	95%

Details of Placed Students : 2020 - 21

1 Kaar	9	12 Makolet	3
2 TCS(Ninja and Digital)	210	13 O2Saver	4
3 Hexaware	15	14 OPPO Mobiles	3
4 Yellow Messenger	4	15 Infosys	1
5 Unisys	1	16 Sutherland	56
6 EmbedUr	1		
7 Virtusa	3		
8 ZOHO	8		
9 CTS	101		
10 Milekel Engineering	1		
11 Mantec Electronic	1	Total	*421

Wi-Fi Campus

* till 31st January 2021

Our campus has been enabled by high speed uninterrupted Wi-Fi connectivity. The Computer Centre is open till 8.00 p.m. on all the working days except on the dates of University examinations.

Library Working Hours

8.30 a.m. to 8.30 p.m. (On all the working days)
8.30 a.m. to 10.00 p.m. (During the examination days)

Women Cell


For the benefit of the girl students, a Women Cell has been constituted in the college. The girl students may approach the Chairperson / members for assistance.

Grievance Redressal Cell

























There is a Grievance Redressal Cell under the Chairmanship of the Director of the institution. Students are requested to approach the Chairman / members to redress their grievances. Mail ID : grievance@smvec.ac.in

Gold Medals and Top Ten Ranks

Your seniors were sincere, hard working and got the Gold medals of the Pondicherry University and the top ten ranks in all the branches. The details of the University Goldmedals and Top Ten Ranks won by the students are given below.

 Indicates the Gold medal and University First Rank.

The Management awards 3 sovereigns of gold to the 1st rank holder, 2 sovereigns to the 2nd rank holder, 1 sovereign to the 3rd rank holder, 4th and 5th rank holders shall receive a cash award of Rs. 10,000/- (Rupees ten thousand) each and 6th to 10th rank holders shall receive a cash award of Rs. 5,000/- (Rupees five thousand) each.

Name of the Course	Year		
	2017	2018	2019
B.Tech. EEE	2, 4, 6, 7		 2,3,4,6,7,8,9,10
B.Tech. ECE	2,3,4,5,6,7,8,9,10		 3,4,5,6,7,9,10
B.Tech. CSE	 2, 3, 4, 10		 2,4,6,7,8,10
B.Tech. IT	 2,3,4,5,6,7,8,9,10		 2,3,5,6,8
B.Tech. ICE	 2,3,4,5,6,7,8,9,10		 2,3,4,5,6,7,8,9,10
B.Tech. Mech	 4, 5, 7, 9, 10		3,7,8,10
B.Tech. Civil	2, 3, 10		2,3,4,6,7,10
MCA	3,4,7,9,10		 2,6,7,8,9,10,11
MBA	 3,4,6,7,8		 2,3,4,5,7,8,10
M.Tech. CSE	 2, 3, 4, 5, 7, 8, 9		 7
M.Tech. ECE	2, 3, 6, 7, 8, 9		2,3,4,5
M.Tech. PED			 2,3
M.Tech. NW	 2, 3, 4, 5, 7, 8, 9		 2,3
M.Tech(VLSI)			 2,3,4
M.Tech(MF)	 2		

Important points for the kind attention of the Parents

Dear Parent

The VIII semester classes commence on 15th February 2021. The above mentioned semester is a very short term, including working days meant for CAT-IV (Model exam). The students have to complete a lot of work within a short period. **Hence the parents are kindly requested not to permit their wards to avail frequent leave during this semester period for the following reasons.**

VIII Semester (IV year):The students have to complete their **Major Project in time.** Besides, they have to prepare for the End Semester theory examinations also. Hence, all the students are expected to devote their time to attend to the above work. **The students selected at the campus interview will be permitted to join by authorities of the companies, only if they qualify for the degree.**

Practicals are very important not only to score more marks but also it will help to understand the theory part of the subject, hence advice your ward not to cut the practical classes.

Please spare your **valuable time to talk to your son/daughter every day and try to understand what he/she is doing in respect of his/her studies.** Kindly extend all your support to your son/daughter which will help them to come out successfully. For any assistance from our side you may always feel free to contact the respective Coordinator / HOD any time during the working hours.

Annexure V



SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

(An Autonomous Institution)

(Approved by AICTE, New Delhi & Affiliated to Pondicherry University)
(Accredited by NBA-AICTE, New Delhi, ISO 9001:2000 Certified Institution &
Accredited by NAAC with "A" Grade)

Madagadipet, Puducherry - 605 107



DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING

DETAILS OF EXAMINERS FOR QUESTION PAPER SETTER AND EVALUATORS

Sl.No	Name of the Examiner	Specialization	Designation, Department and Institution in which currently working	Contact number and mail id
1	Dr.G.Sakthivel	Embedded System, Process Control	Professor, Department of EIE, Annamalai university. Chidambaram - 608 401	9443270714 gsauei@gmail.com
2	Dr.S.MourougaPrakash	Process Control	Asst prof / EIE Pondicherry Engineering College	9894463366 smpragash@pec.edu
3	Dr. M.Manivannan	Process Control and Instrumentation	Department of EIE, Annamalai university. Chidambaram - 608 401	9442646555 Manivannan1978@gmail.com
4	Dr.P.A.Sridhar	Biomedical Instrumentation	Assistant Professor, Department of Electronics & Instrumentation Engineering, Kattankulathur Campus, SRM Institute of Science and Technology	7598227170 sridhara1@srmist.edu.in
5	Dr.Palanivel	Process Control, Transducer and Measurements	Associate Professor – Dept of E & I Annamalai university, Annamalai Nagar, Chidambaram	9842565026 S_palanivel@yahoo.com
6	Dr.M.Jagannath	Biomedical Instrumentation	Assoc. Prof, School of Electronic Engineering,VIT, Chennai - 600127	9884386262 jagan.faith@gmail.com
7	Dr.A.Saraswathi	Drives and Control	Assistant Professor / HOD University college of engineering,	9994549910 saraswathiask@gmail.com

			Villupuram -605103	
8	Dr. P. Shanmugaraja	Medical Electronics Embedded Systems	Department of EIE Annamalaiuniversity. Chidambaram - 608 401.	9443275120 psraja70@gmail.com
9	Dr.S. Yazhinian	VLSI	Assoc. Prof / ECE / Sri Venkateshwara Engineering College and Technology	9751112057 yazhinian.s@gmail.com
10	Dr. P. Vijayakumar	Wireless Networks and Communications	Associate Professor , School of Electronics Engineering ,Vellore Institute of Technology, Melakottaiyur, Chennai – 600127	9894727271 vijayrgcet@gmail.com
11	Dr.D.Palani.	Image Processing	Assistant professor / dept of ECE. University college of engineering, Villupuram -605103	8667377226 palani.dinesh@gmail.com
12	Dr. M.PheminaSelvi	Electronics and Communications	Assistant professor / dept of ECE. University college of engineering, Villupuram -605103	9994267707 vm.femina@gmail.com
13	Dr.V.Devarajan	Wireless Communication	Professor & Head Department of ECE Dhanalakshmi Srinivasan College of Engineering and Technology, Mamallapuram.	9894040479 devarajan@live.fr
14	Dr.B.Karthik	Embedded System	Associate Professor, Department of ECE, Bharath Institute of Higher Education and Research. Chennai.	9842580740 karthikguru33@gmail.com
15	Dr.V.Ganesan	Electronics Circuits	Associate Professor, Department of ECE, Bharath University. Chennai.	9443723032 vganesh1711@gmail.com
16	Dr. A. Ashokan	Process Control, Transducer and Measurements	Department of ECE Government College of Engineering, Thanjavur.	9150376648
17	Dr M. Florance Mary	Wireless Communication and Network Security, Cryptography, IoT, Embedded System, Blockchain, Cyber security, VLSI	Pondicherry Engineering College	6380597811 florancemary@pec.edu

18	Dr.D. Manamalli	Process Control	MIT Campus, Anna University, Chennai	9445405689 manamalli_m@yahoo.com
19	Dr. P. S. Mayurappriyan	Control Systems / Renewable Energy Systems / Power Electronics	Kumaraguru College of Technology, Chinnavedampatti (PO),Coimbatore – 641 049.	0422-2661100 mayurappriyan.ps.eie@kct.ac.in
20	Dr. N. Sivakumaran	Process Control and Instrumentation	National Institute of Technology, Tiruchirappalli 620015	9443745705 nsk@nitt.edu
21	Dr.B.Hemakumar	1.Transducers and Measurements 2. Electric Circuit Analysis 3. Process Instrumentation 4. Analytical	Department of EIE, Pondicherry Engineering College, Pillaichavady, Puducherry.	9994196804 hemakumarb@pec.edu
22	Dr.M.PonniBala	Biomedical Image Processing, Softcomputing Techniques	Kongu Engineering College Thoppupalayam, Perundurai, Tamil Nadu 638060	9843999554 ponnibala@kongu.ac.in
23	Dr. Anima Nanda	Composites Multi Objective Optimization Machining Material Characterizations	Sathyabama University, Chennai	9443786840 animananda72@gmail.com
24	Dr.M.Kowsalya	Energy and Power Electronics	VIT ,Vellore	7418077407 mkowsalya@vit.ac.in
25	Dr. Gnanou Florence Sudha	Electronics and Communication Engineering,	Department of ECE, Pondicherry Engineering College, Pillaichavady, Puducherry.	9944337963 gfsudha@pec.edu

