VARUVAN VADIVELAN INSTITUTE OF TECHNOLOGY

DHARMAPURI–636703

MANDATORY DISCLOSURES

Name of the Institution

Name of the College	**VARUVAN VADIVELAN INSTITUTE OF TECHNOLOGY**
Address	Gundalapatty,NH-44,Krishnagiri Main Road, Dharmapuri District
Pincode	636703
Year of establishment of the college	2008
Type of the Institution	Self-Financing
Category Of the College	Non-Minority
Type of college	Engineering
Is the College Autonomous	No
Is the college Functioning at the above said-approved site?	Yes
Mobile Numbers	9865754222
Telephone Numbers	04342–288866
Other Telephone Numbers	-
Fax Numbers	04342–288866
E_mail ID	vvit555@ymail.com
Website Address	www.vvitengineering.com

Name and address of the Trust / Society/ Company and the Trustees

The Head of the Trust	Chairman
Name of the Trust / Society	Lakshmi Educational Trust
Address of the Registered Office Line1	Sridevi Educational Complex
Line2	77-ByePassRoad
District	Dharmapuri,TamilNadu-636701
Name of the Chairman	**M.VADIVELAN**
Father Name	MARIMUTHUGOUNDER
E-mail	vvit555@ymail.com
Mobile Number of the Chairman	9443233777
Telephone number	04342-263888
Name of the Member	MADHAVAN.V
Mobile Number of the Member	9865754222
Telephone number–Office	04342-263888
Registration Number & Date	81/2002 13.03.2002

Name and address of the Principal

Name	**Dr.SIVAKUMARA**
Date of birth	04-07-1972
Age	52
Father Name	ABURPAAVANACHARI
Date of joining	13.08.2008
Experience	27 Years 2 Months
Telephone number–Office	04342– 288866
Telephone number–Residence	-
Fax number	04342– 288866
Mobile number	9942113333
E-mail	sirarira@yahoo.com
Residential Address Line 1	3/166, A, ABURPANILAYAM, 7THCROSS,
Line2	NEHRU NAGAR
District	DHARMAPURI
Educational Qualification	B.E., M.E., Ph.D.,
Title of the Ph.D. Thesis	Investigation on the effects of silver nitrate mixed electrolyte in electrochemical machining of stainless steel Aisi202

Name of the affiliating University:

Name of the Affiliating University	Anna University
Line1	Sardar Patel road, Guindy, Chennai-600025
Line2	Chennai-600025
Web Site	www.annauniv.edu

Governs Members of the Board and their brief background:

Name	Position	Qualification	Present Designation/ Occupation	Telephone Numbers	Mobile No.	E-mailid	Address
Dr. SivakumarA	Members	Ph.D.-FacultyOf Mechanical Engineering	Principal	-	9942113333	sirarira@ya hoo.com	3/166, Nehru Dharmapuri- 636705
Mr. Thangarajan M	Members	Others-Puc	Entrepreneur	-	9842461999	vvit555@y mail.com	Chatramel Street, Dharmapuri.
Dr.Arularasu M	Members	Ph.D.-Manufacturi ng Engineering	Principal ThanthaiPeriy ar InstituteBof Technolog	04342 288866	9791301489	cmarularasu@rediffmail.com	Bagayam-Tamilnadu Vellore - 632002
Mr. Vijayasarava na Vel V	Members	OTHER S-M.A.B.L.	Director		9442254222	getkadhir_5 55@ymail.co m	149,ChatramMel Street - Dharmapuri-636 701
Mr. MadhavanV	Member Secretary	B.Com.-Commerce	Secretary	04342 260444	9865754222	VVIT555@Y MAIL.COM	77/14 E, Bye Pass Road Dharmapuri-636701 Dharmapuri
Mr. VadivelanM	Chairman	B.A.-Others-HISTORY	Chairman	04342 26044	9524037777	VVIT555@Y MAIL.COM	77/14 E, ByePass Road, Dharmapuri-636 701

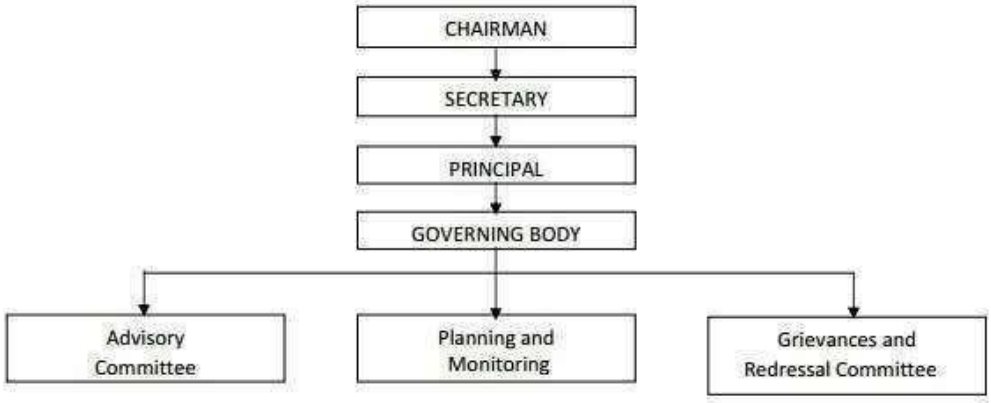
5. Members of Academic Advisory Body:

Name	Position	Category	Qualification	Present Designation / Occupation	Mobile Numbers	E-maillD	Address
Dr. Sivakumar A	Member	Senior faculty member of the college	Ph.D.-Faculty of Mechanical Engineering	Principal	9942113333	vvitprincipal@yahoo.in	3/166,A,Aburpa Nilayam, 7th Cross, Nehru Nagar-Dharmapuri - 636705 Dharmapuri
Mr. Thirumal L	Member	Senior faculty member of the college	M.E. - Applied Electronics	Assistant Professor	9750654666	thirumal09@gmail.com	3/55, New Street,-Laligam 636804 Dharmapuri
Mr. Sampathkumar P	Member	Senior faculty member of the college	M.E.-Power Systems Engineering	Assistant Professor	9942931111	psampathmems@gmail.com	ValluvarNagar, Collectorate-Dharmapuri Dharmapuri
Mrs. Geetharani M	Member	Senior faculty member of the college	M.E.-Computer Scienceand Engineering	Assistant Professor	9095822557	geetharanim@gmail.com	3/148Vasantham Illam, 5thCrossNehru Nagardharmapuri -636705 Dharmapuri
Dr. Arularasu M	Member	Senoir faculty member from University/other college	M.E.-Production Engineering	Others - Additional DirectorOf Technical Education	9791301489	cmarularasu@rediffmail.com	Dote Quaters- Chennai 25 Chennai
Mr.Nagarajan J.P	Member	Industrial expert in the field of engineering and technology	B.E.-Electronics and Communication Engineering	Others - Managing Director Premier Match Industries Dharmapuri	9443260474	nagarajmailtome@gmail.com	Premier Match Industries-Bye Pass Road, Dharmapuri - 636 701 Dharmapuri

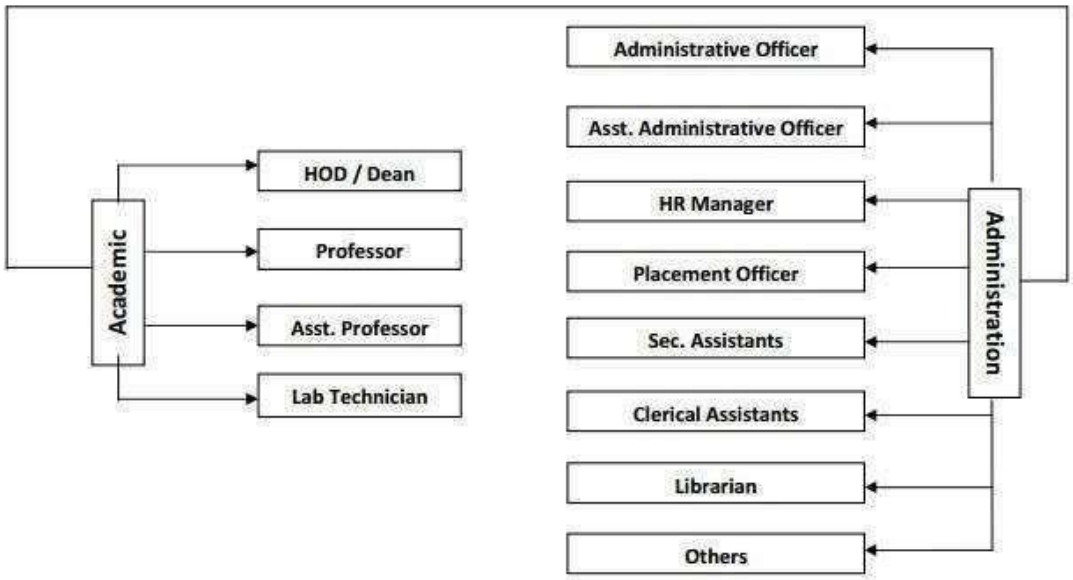
Frequency of the board meeting and Academic Advisory Body: Monthly Once

Organizational Chart and Process

Nature and extent of involvement of Faculty and students in academic affairs / improvements	Yes, Faculty involved in Various Committees, Academic Audit, Question Paper Setting etc, Students are also involved in all committees



b. **Academic and Administrative Components**



Grievance Redressal Mechanism for Faculty, Staff and Students

Name of the Committee Member	Profession	Mobile Number	e-mail Address	Designation	Gender
Mrs. Akila BakialakshmiK	Member	9942345700	271akila@gmail.com	Assistant Professor	Female
Mrs. Archana Vishveswari R S	Member	9629113592	archanars20@gmail.com	Assistant Professor	Female
Mrs. Geetharani M	Chairman	9095822557	geetharanim@gmail.com	Assistant Professor	Female

Establishment of Anti Ragging Committee:

S.no	Name	Position	Category	Present Designation / Occupation	Telephone Numbers	Mobile Numbers	E-Mail Id	Address
1	Dr. Sivakumar A	Chairman	Principal	Principal	04342-288866	9942113333	Sirarira@yahoo.com	3/166, A, Aburpa Nilayam,7thCross, Nehra Nagar, Dharmapuri -5
2	Mr. Ammadurai D	Member	Police Department	Sub Inspector of Police	-	9498191098	mkpsdpig mail.com	Police Quarters- Dharmapuri Dharmapuri
3	Mr. Rajarajan R	Member	Revenue/ Taluk/Civil/Officers	Tasildhar	-	9445000533	vvitprincipal @yahoo.in	Tasildhar Stamps Dharmapuri
4	Mr. Rajamani S	Member	Representativesof Parents	Representatives Of Parents	-	9095347031	kalaivend han@gmail.com	3/84, Karagathahalli, BelarahalliP.O,Palacode-Dharmapuri.636 808 Dharmapuri
5	Mr. Kalaivendhan R	Member	Representativesof Students	Student	-	9786316741	kalaivend han26@gm ail.com	S/O,S.Rajamani, 3/84,Karagathaha lliPalacode - Dharmapuri-636808 Dharmapuri
6	Mr. Sathivel S	Member	Representatives Non- Teaching	Representatives Non Teaching	-	9095535098	sakth81vel@ g mail.com	96a/21g, KottikovilSrteet-Dharmapuri -636701

								Dharmapuri

Establishment of Committee for SC/ST: Yes

Sl. No	Name of the Member	Designation	Position
1	Mr. Sampath Kumar P	Head of the Department	Chairman
2	Mrs. Geetha Rani M	Head of the Department	Member
3	Mrs. Nagajothi A	Head of the Department	Member
4	Mrs.Archana Vishveswari R S	Head of the Department	Member
5	Mr.RajkumarP	Head of the Department	Member
6	Mr.RamkumarM	Head of the Department	Member
7	Mrs.AkilaBakialakshmiK	Head of the Department	Member
8	Mr.BarathiP	Head of the Department	Member

Internal Quality Assurance Cell: Yes

S. No	Name of the Member	Designation	Position
1.	Dr. Sivakumar S	Senior Faculty	Chairman
2.	Mr. Sampath Kumar P	Head of the Department	Member
3.	Mrs. Kavitha R	Student Counselor (Staff)	Member
4.	Mrs. Geetharani M	Lady faculty member	Member
5.	Mrs. Santhi amutha J	Warden / Deputy Warden of Girls Hostel	Member
6.	Mr. Ravindran L A	Warden / Deputy Warden of Boys Hostel	Member

Programmes:

Degree	Course	Year of introduction	Nature of affiliation	Year of Permanent	Status Accreditation of
B.E.	Civil Engineering	2009	Provisional	-	Not Accredited
B.E.	Computer Science and Engineering	2008	Provisional	-	Not Accredited
B.E.	Electrical and Electronics Engineering	2008	Provisional	-	Not Accredited
B.E.	Electronics and Communication Engineering	2008	Provisional	-	Not Accredited
B.E.	Mechanical Engineering	2009	Provisional	-	Not Accredited
B.Tech	Information Technology	2023	Provisional	-	Not Accredited
B.Tech	Artificial Intelligence and Data Science	2023	Provisional	-	Not Accredited
M.E.	Computer Science and Engineering	2011	Provisional	-	Not Accredited
M.E.	Power Electronics and Drives	2012	Provisional	-	Not Accredited
M.E.	Applied Electronics	2012	Provisional	-	Not Accredited

For each Programme the following details are to be given (Preferably in Tabular form):

Name of the Department	DEPARTMENT OF CIVIL ENGINEERING
Course	**B.E –CIVIL ENGINEERING**
Level	UG
Duration	4Years
1st Year of approval by the Council	2009-10

	2024-25	**2023-24**	**2022-23**	**2021-22**	**2020-21**	**2019-20**
Year wise Sanctioned Intake	30	30	30	60	60	60
Year wise Actual Admissions				55	58	57
Cut off marks– General quota	130	130	130	140	145.26	148.33
Fee (as approved by the State Government)	50000	50000	50000	50000	50000	50000
%Students passed with	0	0	0	0	0	0
Distinction	-	-	-	-	-	-
% Students passed with First Class	-	-	-	-	100	81
Students Placed	-	-	-	-	10	29
Maximum Pay package, Rs./Year	-		-	-	250000	250000
Minimum Pay package, Rs./Year	-	-	-	-	180000	180000
Average Pay package, Rs. /Year	-	-	-	-	144000	144000
Students opted for Higher Studies	-	-	-	-	0	2

Accreditation Status of the course	Non Accredited
Doctoral Courses	No
Foreign Collaborations, if any	No

Name of the Department	DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING					
Course	**B.E–COMPUTER SCIENCE ANDENGINEERING**					
Level	UG					
Duration	4Years					
1st Year of approval by the Council	2009					
	2024-25	**2023-24**	**2022-23**	**2021-22**	**2020-21**	**2019-20**
Year wise Sanctioned Intake	90	90	90	60	60	60
Year wise Actual Admissions				57	58	54
Cut off marks – General quota	150.00	150.00	150.00	150.33	152.50	156.25
Fee(as approved by the State Government)	50000	50000	50000	50000	50000	50000
% Students passed with Distinction	-	-	-	-	15%	10%
% Students passed with First Class	-	-	-	-	30	25
Students Placed	-	-	-	-	14	12
Maximum Pay, package, Rs./Year	-	-	-	-	1,20000	1,50,000
Minimum Pay, package, Rs./Year	-	-	-	-	120,000	120000
Average Pay, package, Rs./Year	-	-	-	-	1,20,000	2,00,000
Students opted for Higher Studies	-	-	-	-	2	1
Accreditation Status of the course	Non Accredited					
Doctoral Courses	No					
Foreign Collaborations, if any	No					

Name of the Department	DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
Course	**B.E–ELECTRICALAND ELECTRONICS ENGINEERING**
Level	UG
Duration	4Years
1st Year of approval by the Council	2009

	2024-25	**2023-24**	**2022-23**	**2021-22**	**2020-21**	**2019-20**
Year wise Sanctioned Intake	60	60	60	60	60	60
Year wise Actual Admissions				54	52	45
Cut off marks – General quota				142.22	145.75	146.25
Fee(as approved by the State Government)	50000	50000	50000	50000	5000	50000
% Students passed with Distinction	-	-	-	-	4%	7%
% Students passed with First Class	-	-	-	-	80%	81%
Students Placed	-	-	-	-	7	4
Maximum Pay, package, Rs./Year	-	-	-	-	250000	250000
Minimum Pay, package, Rs./Year	-	-	-	-	180000	180000
Average Pay, package, Rs./Year	-	-	-	-	144000	144000
Students opted for Higher Studies	-	-	-	-	0	2

Accreditation Status of the course	Non Accredited
Doctoral Courses	No
Foreign Collaborations, if any	No

Name of the Department		DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING				
Course		**B.E – ELECTRONICS AND COMMUNICATION ENGINEERING**				
Level		UG				
Duration		4 Years				
1st Year of approval by the Council		2009				
	2024-25	**2023-24**	**2022-23**	**2021-22**	**2020-21**	**2019-20**
Year wise Sanctioned In take	60	60	60	60	60	60
Year wise Actual Admissions			26	58	59	59
Cut off marks –General quota			142.5	160.25	162.25	162.75
Fee(as approved by the State Government)			50000	50000	50000	50000
% Students passed with Distinction			-	-	0	0
% Students passed with First Class			-	-	95	90
Students Placed			-	-	20	35
Maximum Pay package, Rs./Year			-	-	300000	300000
Minimum Pay package, Rs./Year			-	-	150000	150000
Average Pay package, Rs./Year			-	-	225000	225000
Students opted for Higher Studies			-	-	2	3
Accreditation Status of the course			Non Accredited			
Doctoral Courses			No			
Foreign Collaborations, if any			No			

Name of the Department		DEPARTMENT OF MECHANICAL ENGINEERING				
Course		**B.E-MECHANICAL ENGINEERING**				
Level		UG				
Duration		4Years				
1st Year of approval by the Council		2009				
	2024-25	**2023-24**	**2022-23**	**2021-22**	**2020-21**	**2019-20**
Year wise Sanctioned Intake	60	60	60	120	120	120
Year wise Actual Admissions			14	119	114	115
Cut off marks– General quota			120.25	145.33	146.50	147
Fee (as approved by the State Government)			50000	50000	50000	50000
% Students passed with Distinction			-	-	5%	7%
% Students passed with First Class			-	-	70%	80%
Students Placed			-	-	60	20
Maximum Pay package, Rs. /Year			-	-	180000	240000
Minimum Pay package, Rs. /Year			-	-	144000	180000
Average Pay package, Rs. /Year			-	-	1,20,000	1,20,000
Students opted for Higher Studies			-	-	20	15
Accreditation Status of the course			Non Accredited			
Doctoral Courses			No			
Foreign Collaborations, if any			No			

Name of the Department	DEPARTMENT OF INFORMATION TECHNOLOGY		
Course	**B. Tech - INFORMATION TECHNOLOGY**		
Level	UG		
Duration	4 Years		
1st Year of approval by the Council	2022		
	2024-25	**2023-24**	**2022-23**
Year wise Sanctioned Intake			90
Year wise Actual Admissions			90
Cut off marks – General quota			160.75
Fee (as approved by the State Government)			50000
% Students passed with Distinction			-
% Students passed with First Class			-
Students Placed			-
Maximum Pay package, Rs. /Year			-
Minimum Pay package, Rs. /Year			-
Average Pay package, Rs. /Year			-
Students opted for Higher Studies			-
Accreditation Status of the course	Non Accredited		
Doctoral Courses	No		
Foreign Collaborations, if any	No		

Name of the Department	DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING		
Course	**B_Tech - ARTIFICIAL INTELLIGENCE AND DATA SCIENCE**		
Level	UG		
Duration	4 Years		
1st Year of approval by the Council	2022		
	2024-25	**2023-24**	**2022-23**
Year wise Sanctioned Intake	30	30	30
Year wise Actual Admissions	29	25	13
Cut off marks – General quota			140.50
Fee (as approved by the State Government)			50000
% Students passed with Distinction			-
% Students passed with First Class			-
Students Placed			-
Maximum Pay package, Rs. /Year			-
Minimum Pay package, Rs. /Year			-
Average Pay package, Rs. /Year			-
Students opted for Higher Studies			-
Accreditation Status of the course	Non Accredited		
Doctoral Courses	No		
Foreign Collaborations, if any	No		

Name of the Department		DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING		
Course		**M.E – COMPUTER SCIENCE & ENGINEERING**		
Level		PG		
Duration		2 Years		
1st Year of approval by the Council		2010		
	2024-25	**2024-23**	**2022-23**	**2021-22**
Year wise Sanctioned Intake	18	18	24	24
Year wise Actual Admissions			2	2
Cut off marks – General quota			28 (tanca)	23 (tanca)
Fee (as approved by the State Government)			50000	50000
% Students passed with Distinction			-	-
% Students passed with First Class			-	100%
Students Placed			-	-
Maximum Pay package, Rs. /Year			-	-
Minimum Pay package, Rs. /Year			-	-
Average Pay package, Rs. /Year			-	-
Students opted for Higher Studies			-	-
Accreditation Status of the course		Non Accredited		
Doctoral Courses		No		
Foreign Collaborations, if any		No		

Name of the Department		DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING		
Course		**M.E – POWER ELECTRONICS & DRIVES**		
Level		PG		
Duration		2 Years		
1st Year of approval by the Council		2010		
	2024-25	**2023-24**	**2022-23**	**2021-22**
Year wise Sanctioned Intake			18	18
Year wise Actual Admissions			5	3
Cut off marks – General quota			15 (Tanca)	21.25 (Tanca)
Fee (as approved by the State Government)			50000	50000
% Students passed with Distinction			-	-
% Students passed with First Class			-	-
Students Placed			-	-
Maximum Pay package, Rs. /Year			-	-
Minimum Pay package, Rs. /Year			-	-
Average Pay package, Rs. /Year			-	-
Students opted for Higher Studies			-	-
Accreditation Status of the course		Not Accredited		
Doctoral Courses		No		
Foreign Collaborations, if any		No		

Name of the Department		DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING		
Course		**M.E – APPLIED ELECTRONICS**		
Level		PG		
Duration		2 Years		
1st Year of approval by the Council		2010		
	2024-25	**2023-24**	**2022-23**	**2021-22**
Year wise Sanctioned Intake			12	12
Year wise Actual Admissions			1	0
Cut off marks – General quota			18	15
Fee (as approved by the State Government)			50000	50000
% Students passed with Distinction			-	-
% Students passed with First Class			-	-
Students Placed			-	-
Maximum Pay package, Rs. /Year			-	-
Minimum Pay package, Rs. /Year			-	-
Average Pay package, Rs. /Year			-	-
Students opted for Higher Studies			-	-
Accreditation Status of the course		Non Accredited		
Doctoral Courses		No		
Foreign Collaborations, if any		No		

Faculty:

Degree	Course	Nature of Appointment of the faculty	Student Ratio	Number of Faculty Employed	No. of Faculty left during last three years
B.E.	Civil Engineering	Permanent	1:20	7	0
B.E.	Computer Science and Engineering	Permanent	1:20	14	0
B.E.	Electrical and Electronics Engineering	Permanent	1:20	9	1
B.E.	Electronics and Communication Engineering	Permanent	1:20	11	0
B.E.	Mechanical Engineering	Permanent	1:20	15	1
B_Tech	Information Technology	Permanent	1:20	11	0
B_Tech	Artificial Intelligence and Data Science	Permanent	1:20	5	0
M.E.	Computer Science & Engineering	Permanent	1:15	4	0
M.E.	Power Electronics and Drives	Permanent	1:15	2	0
M.E.	Applied Electronics	Permanent	1:15	3	0

Profile of Principal /Faculty Details:

Name	Dr. SIVAKUMAR A			
Designation	Principal			
Department	Mechanical Engineering			
Date of Birth	04/07/1972			
Education Qualifications	UG	PG	PG (Others)	PhD
Qualifications with Class / Grade	B.E/ First Class	M.E/ First Class	M.S /Second Class	First Class
Work Experience	Teaching	Industry	Research	
Total Experience in Years	21 years	3 years	5 years	
Area of Specialization	M.E. –MECHANICAL ENGINEERING			
Research Publications	National	International		
Papers Published in Journals	10	5		
Papers Presented in Conferences	15	4		
Projects Carried out	56			

Faculty List:

Fee:

Details of Fee, as approved by State Fee Committee, for the Institution	BE / B. Tech	ME / M. Tech
Government Quota (Rs. Per Year)	50000	50000
Management Quota (Rs. Per Year)	50000	50000
Time schedule for payment of Fee for the entire Programme	Beginning of Every Semester	
Estimated cost of Boarding and Lodging in Hostels	Rs. 55000	Rs. 55000
Any other fee please specify	-	-

Admission Procedure:

Mention the admission test being followed, name and address of the Test Agency / State Admission	For B.E/B. Tech, TNEA (Tamil Nadu Engineering Admissions, Anna University, Chennai – 600 025). For M.E, TANCET / TANCA (Tamil Nadu Common Entrance Test, Anna University, Chennai – 600 025)
Authorities and its URL (website)	Web:www.annauniv.edu
Number of seats allotted to different Test Qualified candidate separately (AIEEE/ CET (State conducted test/ University tests/ CMAT/ GPAT)/ Association conducted test etc.)	**Consortium:**

Calendar for admission against Management / vacant seats:

Last date of request for applications	For B. E., / B. Tech / M. E/ M. Tech / MBA / MCA Association of Management of Coimbatore Anna University Affiliated Colleges, Coimbatore-641014
Last date of submission of applications	
Dates for announcing final results	
Release of admission list (main list and waiting list shall be announced on the same day)	
Date for acceptance by the candidate (time given shall in no case be less than 15days)	
Last date for closing of admission	As announced by the Anna University, Chennai and Directorate of Technical Education.
Starting of the Academic session	As announced by the Anna University. (June / July-Odd Sem / Dec/Jan Even Sem)
The waiting list shall be activated only on the expiry of date of main list	Yes
The policy of refund of the Fee, in case of withdrawal, shall be clearly notified	Yes

Criteria and Weight-ages for Admission:

Describe each criterion with its respective weightages i.e. Admission Test, marks in qualifying examination etc.	For B. E., / B. Tech Based on Higher Secondary Cutoff Mark, for M. E/ M. Tech / MBA / MCA Exam conducted for Maximum 100 Marks
Mention the minimum Level of acceptance, if any	General - 45%, BC including BC Muslim - 40% MBC & DNC - 40%, SC/SCA/ST - 40%

Information of Infrastructure and Other Resources Available:

Number of Class Rooms and size of each	44	Total value: 3348sqm
Number of Tutorial rooms and size of each	10	505sqm
Number of Laboratories and size of each	12	400 sqm
Number of Drawing Halls with capacity of each	5	60 each
Number of Computer Centre with capacity of each	5	60 each
Central Examination Facility, Number of rooms and capacity of each	2	
Online examination facility (Number of Nodes, Internet bandwidth, etc.)	450 Nodes	100 Mbps
Barrier Free Built Environment for disabled and elderly persons	Yes	
Occupancy Certificate	Yes	
Fire and Safety Certificate	Yes	
Hostel Facilities	Yes, A well-equipped, separate Hostel for both Boys and Girls	

Library:

i. **Number of Library books / Titles / Journals available (Programme-wise)**

Programme	Number of Titles	Number of Volumes	Number National of Journals	Number of International Journals	Number of eBook Titles	Number of eBook Volumes
Engineering and Technology	1006	21200	3423	2500	3450	40950
Total	1006	21200	3423	2500	3450	40950

ii. **List of online National/ International Journals subscribed**

E- Library facilities	eBook Volumes:	42685	DELNET
National Digital Library (NDL) subscription details	Yes		

Laboratory and Workshop:

i. **List of Major Equipment/Facilities in each Laboratory/Workshop**

Course	Level	Name of the Laboratory	Major Equipment's
Civil Engineering	Under Graduate	Computer Aided Building Drawing	AUTOCAD Software
Civil Engineering	Under Graduate	Computer Aided Drafting and Drawing Laboratory	STADD PRO Software
Civil Engineering	Under Graduate	Concrete And Highway Engineering Lab	Compression Testing Machine, Ductility Testing Machine
Civil Engineering	Under Graduate	Environmental Engineering Lab	BOD Incubator, Flame Photometer
Civil Engineering	Under Graduate	Hydraulic Engineering Lab	Kaplan Turbine, Peloton Turbine
Civil Engineering	Under Graduate	Irrigation And Environmental Engineering Drawing	Projector
Civil Engineering	Under Graduate	Soil Mechanics Laboratory	Tri-axial Compression Testing Machine
Civil Engineering	Under Graduate	Strength Of Materials Lab	Universal Tensile Testing Machine, Torsion Testing Machine
Civil Engineering	Under Graduate	Survey Practical Lab-1	Theodolite, Dumpy Level

Civil Engineering	Under Graduate	Survey Practical Lab-2	Total Station, Prismatic Compass
Computer Science And Engineering	Under Graduate	Internet Programming Lab/ Object Oriented Analysis Design Lab	Computer Desktops (Core 2 Duo With 2GB DDR2RAM)

Computer Science And Engineering	Under Graduate	Data Structures Lab/ Data Base Management Systems Lab	Computer Desktops (Core 2 Duo With 2GB DDR2RAM)
Computer Science And Engineering	Under Graduate	Python Programming /C Programming Lab	Computer Desktops (Core 2 Duo With 2GBDDR2 RAM)
Computer Science And Engineering	Under Graduate	Computer Networks Lab / Mobile Application Development Lab	Computer Desktops (Dual Core With 2GB DDR2 RAM)
Computer Science And Engineering	Under Graduate	Object Oriented Programming Lab/ Operating System Lab	Computer Desktops (Dual Core WITH 2GB DDR3 RAM)
Computer Science And Engineering	Under Graduate	Cloud Computing Lab/Security Lab	Computer Desktops (I3 Processor With 2GB DDR3 RAM)
Computer Science And Engineering	Post Graduate	Pg -Advanced Data Structure Lab	Computer Desktops (I3 Processor With 4 GB DDR3 RAM)
Electrical And Electronics Engineering	Under Graduate	Control And Instrumentation Lab	Transfer Function ofTwo-Phase AC Servo Motor
Electrical And Electronics Engineering	Under Graduate	Devices And Circuits Lab	Cathode Ray Oscilloscope
Electrical And Electronics Engineering	Under Graduate	Digital And IC Lab	1.Digital Storage Oscilloscope 2.PV Emulator
Electrical And Electronics Engineering	Under Graduate	Electrical Machines - I Lab	Rectifier Unit
Electrical And Electronics Engineering	Under Graduate	Electrical Machines-II Lab	3Phase Squirrel Cage Induction Motor
Electrical And Electronics Engineering	Under Graduate	Microprocessor And Micro Controller Lab	Advanced 8085 Microprocessor Trainer Kit

Electrical And Electronics Engineering	Under Graduate	Power Electronics & Drives Lab	IGBT Power Module
Electrical And Electronics Engg	Under Graduate	Power System Simulation Lab	Laptops -53nos
Power Electronics And Drives	Post Graduate	M.E-Power Electronics And Drives Lab	SR Motor Setup

Power Electronics And Drives	Post Graduate	Research Lab	Acer Desktop PC 30 Nos
Electronics & Communication Engineering	Under Graduate	Circuits And Devices Lab/Engineering Practice Lab	1. CRO 2. Function Generator 3. Power Supply 4. Decade Resistance Box 5.Decade Inductance Box
Electronics & Communication Engineering	Under Graduate	Analog And Digital Circuits Lab	1. Digital IC Trainer Kit 2. Digital IC Trainer with Built in Power Supply 3. Power Supply Unit
Electronics & Communication Engineering	Under Graduate	Circuits And Simulation Integrated Lab	1. Dual Trace Oscilloscope 2. DC Regulated Power Supply 3. Analog Meter 4. Function Generator
Electronics & Communication Engineering	Under Graduate	Linear Integrated Circuit Lab	1. Function Generator, 2.Dual Trace Oscilloscope Trainer 3. Regulated Power Supply 4. IC Tester,
Electronics & Communication Engineering	Under Graduate	Communication Systems Lab	1. Pam-PPM-PWM-Delta Modulation & Demodulation Trainer Kit 2. Pcm Receiver 3. DSO 4. CRO 5. Amp
Electronics & Communication Engineering	Under Graduate	Digital Signal Processing Lab	1.Matlab 2.Acer Systems 3.Tms320c50 Based DSP Starter Kit, Power Supply and Function Generator

Electronics & Communication Engineering	Under Graduate	Microprocessor & Microcontroller Lab	1. 8085, 8086 And 8051 Based Advanced Kit 2. ADC & DAC Card 3.Dc Motor Card 4.Traffic Light Controlled Card
Electronics & Communication Engineering	Under Graduate	Computer Networks Lab	1. Network Simulator Software, 2. LAN Trainer, 3. Wireless LAN Protocol Study Module
Electronics & Communication Engineering	Under Graduate	VLSI Lab	1. Spartan 3E Trainer Kit 2. Cool Runner-II 3. Xilinx ISE 4. FPGA Trainer 5. Acer Version M200 Desktop PC
Electronics & Communication Engineering	Under Graduate	Embedded Lab	1. Mc Based Dc Motor Controller 2. LVDT Module 3. Strain Gauge Module, 4. DataAcquisition System 5.Arm Processor Trainer Kit
Electronics & Communication Engineering	Under Graduate	Optical & Microwave Lab	1. Klystron Power Supply & Mount with Tube 2. Radiation Pattern Tube 3. VSWR Meter 4. CRO 5. Fibre Optical Trainer Kit
Mechanical Engineering	Under Graduate	CAD Lab	Solid Works Software
Mechanical Engineering	Under Graduate	CAM Lab	CNC Milling Machine
Mechanical Engineering	Under Graduate	Dynamics Laboratory	Vibrating Table
Mechanical Engineering	Under Graduate	First Year Workshop	Lathe
Mechanical Engineering	Under Graduate	Heat And Mass Transfer Lab	Heat Transfer Pin Fin Apparatus, Heat Transfer Forced Convection, Lagged Pipe Apparatus
Mechanical Engineering	Under Graduate	Manufacturing Technology Lab – I	Capstan Lathe
Mechanical Engineering	Under Graduate	Manufacturing Technology Lab – II	Vertical Milling Machine, Digital Milling, Tool Dynamometer
Mechanical Engineering	Under Graduate	Mechatronics Laboratory	Electro Pneumatic Kit

Mechanical Engineering	Under Graduate	Metrology And Measurement Lab	Floating Carriage, Micrometer
Mechanical Engineering	Under Graduate	Thermal Engineering Laboratory- I	Twin Cylinder Four Stroke Diesel Engine, 4 Cylinder Petrol Engine

ii. **List of Experimental Setup in each Laboratory/Workshop:**

Course	Level	Name of the Laboratory	Experimental Setup in each Laboratory/Workshop
Civil Engineering	Under Graduate	Computer Aided Building Drawing	1. Principles of planning, orientation and complete joinery details (Paneled and Glazed Doors and Windows) 2. Buildings with load bearing walls 3. Buildings with sloping roof 4. Industrial buildings – North light roof structures 5. Building Information Modeling
Civil Engineering	Under Graduate	Concrete And Highway Engineering Lab	1. Slump cone test 2. VEE BEE test 3. Crushing test 4. Flakiness And Elongation Indices 5. Impact Value
Civil Engineering	Under Graduate	Environmental Engineering Lab	1. Determination Of Suspended Cola tile, Fixed And Settle able Soils In Waste Water. 2. Determination Of PH In Given Chemicals 3. Determination Of Turbidity 4. Determination Of Conductivity
Civil Engineering	Under Graduate	Hydraulic Engineering Lab	1. Characteristics Of Centrifugal Pumps. 2. Characteristics Of Gear Pumps. 3. Characteristics Of Centrifugal Pumps. 4. Characteristics Of Friction Factor in Pipes. 5. Calibration Of Venturi Meterand Orifice meter.
Civil Engineering	Under Graduate	Irrigation And Environmental Engineering Drawing	Projector
Civil Engineering	Under Graduate	Soil Mechanics Laboratory	1. Specific Gravity of Soil Solids 2. Grain Size Distribution of Sieve Analysis 3. Field Density Test (Sand Replacement Method and Core Cutter Method) 4. Permeability Determination (Constant Head and Falling Method)
Civil Engineering	Under Graduate	Strength Of Materials Lab	1. Tension Test on Steel Rod 2. Double Shear Test on Metal 3. Impact Test on Metal Specimen (Chirpy) 4. Compression Test on Helical Spring 5. Compression Test on Wood

Civil Engineering	Under Graduate	Survey Practical Lab-1	1. Chain Traversing 2. Compass Traversing 3. PLAI Table Surveying 4. Fly Leveling Using Dumpy Level. 5. Contouring.
Civil Engineering	Under Graduate	Survey Practical Lab-2	1. Setting Out Works - Foundation Marketing Using Tapes Single Room and Double Room. 2. Compass Traversing-Measuring Bearings. 3. Fly Leveling Using Dumpy Level 4. Check Leveling 5. Measurement of Horizontal Angle and Reiteration and Repetition Method.
Civil Engineering	Post Graduate	Structural Engineering Lab	1. Determination Of In-Situ Strength and Quality Of Concrete Using Fabrication, Casting And Testing Of Simply Supported Reinforced Concrete Beam For Strength And Deflection Behavior. 2. Testing Of Simply Supported Steel Beam for Strength and Deflection Behavior. 3. Fabrication, Casting and Testing Of Reinforced Concrete Column Subjected To Concentric And Eccentric Loading. I)Rebound Hammer
Electrical And Electronics Engineering	Under Graduate	Control And Instrumentation Lab	1. P, PI and PID controllers 2. Position Control Systems 3. Bridge Networks –AC and DC Bridges 4. Power and Energy Measurement 5. Process Simulation
Electrical And Electronics Engineering	Under Graduate	Devices And Circuits Lab	1. Characteristics of Semiconductor diode and Zener diode 2. Characteristics of a NPN Transistor under common emitter, common collector and common base configurations 3. Characteristics of JFET and draw the equivalent circuit 4. Characteristics of UJT and generation of saw tooth waveforms Design and Frequency response characteristics of a Common Emitter amplifier
			1. Implementation of Boolean Functions, Adder and Sub tractor circuits. 2. Code converters: Excess-3 to BCD and Binary to Gray code converter and vice-versa 3. Parity generator and parity checking 4. Encoders and Decoders 5. Counters: Design and implementation of 3-bit modulo counters as synchronous and Asynchronous types using FF IC's and specific counter IC.

Electrical And Electronics Engineering	Under Graduate	Digital And IC Lab	1. Experiment on "VI-Characteristics and Efficiency of 1kWp Solar PV System". 2. Experiment on "Shadowing effect & diode-based solution in 1kWp Solar PV System". 3. Experiment on Performance assessment of Grid connected and Standalone 1kWp Solar Power System. 4. Experiment on Performance assessment of micro–Wind Energy Generator. 5. Experiment on Performance Assessment of Hybrid (Solar-Wind) Power System.
Electrical And Electronics Engineering	Under Graduate	Electrical Machines - I Lab	1. Open circuit and load characteristics of DC shunt generator- critical resistance and critical speed. 2. Load characteristics of DC compound generator with differential and cumulative connections. 3. Load test on DC shunt motor. 4. Load test on DC compound motor. 5. Load test on DC series motor.

Electrical And Electronics Engineering	Under Graduate	Electrical Machines-II Lab	1. Regulation of three phase alternator by EMF and MMF methods. 2. Load test on three-phase induction motor. No 3. load and blocked rotor tests on three-phase induction motor (Determination of equivalent circuit parameters).test. 4. Separation of No-load losses of three-phase induction motor. 5. Load test on single-phase induction motor.
Electrical And Electronics Engineering	Under Graduate	Microprocessor And Micro Controller Lab	1. Simple arithmetic operations: addition / subtraction / multiplication / division. 2. Programming with control instructions: a. Ascending / Descending order, Maximum / Minimum of numbers. b. Programs using Rotate instructions. c. Hex / ASCII / BCD code conversions. 3.I nterface Experiments: with 8085 (i) A/D Interfacing & D/A Interfacing. 4. Traffic light controller. 5. I/O Port / Serial communication
Electrical And Electronics Engineering	Under Graduate	Power Electronics & Drives Lab	1.2.3. Gate Pulse Generation using R, RC and UJT. 4. Characteristics of SCR and TRIAC Characteristics of MOSFET and IGBT AC to DC half controlled converter 5. AC to DC fully controlled Converter
Electrical And Electronics Engineering	Under Graduate	Power System Simulation Lab	1. Computation of Transmission Line Parameters 2. Formation of Bus Admittance and Impedance Matrices and Solution of Networks 3. Power Flow Analysis using Gauss-Seidel Method 4. Power Flow Analysis using Newton Rapson

			Method 5. Symmetric and unsymmetrical fault analysis
Power Electronics And Drives	Post Graduate	M.E-Power Electronics and Drives Lab	1. Speed control of Converter fed DC motor. 2. Speed control of Chopper fed DC motor. 3. V/f control of three-phase induction motor. 4. Micro controller-based speed control of Stepper motor. 5. Speed control of BLDC motor.
Power Electronics And Drives	Post Graduate	Research Lab	1. Modeling and system simulation of basic electric circuits using 2. MATLABSIMULINK/SCILAB 3. Modeling and System simulation of basic power electronic circuits using 4. MATLAB-SIMULINK/SCILAB 5. Modeling and System Simulation of SCR based full converter with different types of loads using MATLAB-Simulink/SCILAB 6. Circuit Simulation of Voltage Source Inverter and study of spectrum analysis with and without filter using MATLAB/SCILAB

Electronics & Communication Engineering	Under Graduate	Circuits And Devices Lab/Engineering Practice Lab	1. Characteristics of PN junction diode 2.Zener diode Characteristics and regulator using zener diode 3.FET Characteristics. 4. SCR Characteristics. 5. Clipper and Clamper & FWR
Electronics & Communication Engineering	Under Graduate	Analog And Digital Circuits Lab	1. Design of Regulated power supply. 2.Darlington Amplifier 3.Cascode and Cascade amplifier 4.Design and implementation of code converter using logic gates (i) BCD to excess-3 code and vice versa. 5.Design and implementation of 3- bit synchronous up/down counter
Electronics & Communication Engineering	Under Graduate	Circuits And Simulation Integrated Lab	1. RC phase shift oscillator and wien bridge oscillator 2.Hartley oscillator and colpitts Oscillator 3. Single tuned amplifier 4. Tuned Collector Oscillator using SPICE Simulation 5. Bitable Multivibrator
Electronics & Communication Engineering	Under Graduate	Linear Integrated Circuit Lab	1. Inverting, Non inverting and differential amplifier. 2. Integrator and Differentiator. Active low pass, high-pass, and band-pass fliters, 4. Schmitt Trigger using op-amp 5.Study of SMPS

Electronics & Communication Engineering	Under Graduate	Communication Systems Lab	1. Signal sampling and Reconstruction 2.Time division multiplexing 3. AM modulator and Demodulator 4. FM modulator and Demodulator 5.Line coding schemes
Electronics & Communication Engineering	Under Graduate	Digital Signal Processing Lab	1. Generation of elementary Discrete -Time sequences 2. Linear and circular convolutions 3. Auto correlation and cross correlation 4. Frequency Analysis using DFT Study of Architecture of Digital Signal Processor
Electronics & Communication Engineering	Under Graduate	Microprocessor & Microcontroller Lab	1. Basic arithmetic and logical operations 2.Move a data block without overlap 3. Code conversion, decimal arithmetic and matrix operations. 4. Counter and time delay Traffic light controller
Electronics & Communication Engineering	Under Graduate	Computer Networks Lab	1. Implementation of error Detection and Error Correction Techniques 2. Implementation of Stop and Wait Protocol and Sliding Window. 3. Implementation of High-Level Data Link Control 4. Implementation of IP address configuration 5. Network Topology -Star, Bus, Ring

Electronics & Communication Engineering	Under Graduate	VLSI Lab	1. Design and simulate a CMOS inverter using digital flow 2. Design an adder using HDL. Simulate it using Xilinx Software 3. Design and Simulate a 4-bit synchronous counter using Flip-Flops 4. Design Finite State using HDL 5. Design Memories using HDL
Electronics & Communication Engineering	Under Graduate	Embedded Lab	1. Study of ARM evaluation system 2. Interfacing ADC and DAC 3. Interfacing LED and PWM 4. Interfacing real time clock and Serial port Flashing of LEDS
Electronics & Communication Engineering	Under Graduate	Optical & Microwave Lab	1. Measurement of connector, bending and fiber attenuation losses 2. Numerical aperture and Mode Characteristics of Fibers 3. Wireless Channel Simulation including fading and Doppler effect 4. VSWR and Impedance Measurement and Impedance Matching

			5. Gunn Diode Characteristics
Mechanical Engineering	Under Graduate	Manufacturing Technology Laboratory I	Centre Lathes, Horizontal Milling Machine, Vertical Milling Machine Shaper, Arc welding transformer with cables and holders, Oxygen and acetylene gas cylinders, blow pipe and other welding outfit Molding table, Molding equipment's, Sheet metal forming tools and equipment's.
Mechanical Engineering	Under Graduate	Computer Aided Machine Drawing	Computers with necessary accessories
Mechanical Engineering	Under Graduate	Manufacturing Technology Laboratory II	Turret and Capstan Lathes, Horizontal Milling Machine, Vertical Milling Machine, Surface Grinding Machine, Cylindrical Grinding Machine Radial Drilling Machine, lathe Tool Dynamometer, Milling Tool Dynamometer, Gear Hobbling Machine, Tool Makers Microscope, CNC Lathe, CNC milling machine, Gear Shaper machine, Center less grinding machine, Tool and cutter grinder
Mechanical Engineering	Under Graduate	Strength Of Materials And Fluid Mechanics And Machinery Laboratory	Universal Tensile Testing machine with double 1 shear attachment –40 Ton Capacity, Torsion Testing Machine (60 NM Capacity), Impact Testing Machine (300 J Capacity), Brinell Hardness Testing Machine, Rockwell Hardness Testing Machine,
			Spring Testing Machine for tensile and compressive loads (2500 N), Metallurgical Microscopes, Muffle Furnace (800 C), Orifice meter setup, Venturi meter setup, Rota meter setup Pipe Flow analysis setup, Centrifugal pump/submergible pump setup Reciprocating pump setup, Gear pump setup, Peloton wheel setup Francis turbine setup, Kaplan turbine setup

Mechanical Engineering	Under Graduate	Kinematics And Dynamics Laboratory	Cam follower setup, Motorized gyroscope, Governor apparatus - Watt, Porter, Proell and Hartnell governors, Whirling of shaft apparatus, Dynamic balancing machine, Two rotor vibration setup, Spring mass vibration system, Torsional Vibration of single rotor system setup, Gear Models, Kinematic Models to study various mechanisms, Turn table apparatus, Transverse vibration setup of cantilever
Mechanical Engineering	Under Graduate	Thermal Engineering Laboratory	I.C Engine – 2 stroke and 4 stroke model, Apparatus for Flash and Fire Point 4-stroke Diesel Engine with mechanical loading, 4-stroke Diesel Engine with hydraulic loading, 4-stroke Diesel Engine with electrical loading Multi-cylinder Petrol Engine, Single cylinder Petrol Engine, Data Acquisition system with any one of the above engines, Steam Boiler with turbine setup, guarded plate apparatus, lagged pipe apparatus, Natural convection-vertical cylinder apparatus, forced convection inside tube apparatus, Composite wall apparatus, Thermal conductivity of insulating powder apparatus, Pin-fin apparatus, Stefan-Boltzmann apparatus, Emissivity measurement apparatus, Parallel/counter flow heat exchanger apparatus, Single/two stage reciprocating air compressor, Refrigeration test rig, Air-conditioning test rig,
Mechanical Engineering	Under Graduate	Metrology And Measurements Laboratory	Micrometer, Vernier Caliper, Vernier Height Gauge, Vernier depth Gauge Slip Gauge Set, Gear Tooth Vernier, Sine Bar, Floating Carriage Micrometer, Profile Projector / Tool Makers Microscope, Parallel / counter flow heat exchanger apparatus, Mechanical / Electrical / Pneumatic Comparator, Autocollimator, Temperature Measuring Setup, Force Measuring Setup, Torque Measuring Setup, Coordinate measuring machine Surface finish measuring equipment, Bore gauge, Telescope gauge
Mechanical Engineering	Under Graduate	CAD/CAM Laboratory	Computer Server, Computer nodes or systems (High end CPU with at least 1 GB main memory) networked to the server A3 size plotter, Laser Printer
Mechanical Engineering	Under Graduate	Simulation And Analysis Laboratory	Computer Work Station, Color Desk Jet Printer, Multibody Dynamic Software Suitable for Mechanism simulation and analysis, C / MATLAB

Mechanical Engineering	Under Graduate	Mechatronics Laboratory	Basic Pneumatic Trainer Kit with manual and electrical controls/ PLC Control each Hydraulics and Pneumatics Systems Simulation Software 8051 - Microcontroller kit with stepper motor and drive circuit sets

Computing Facilities:

Internet Bandwidth	200 Mbps
Number and configuration of System	Desktop (Core 2 Duo With 4GB DDR2 RAM) Desktop (Dual Core With 4GB DDR2 RAM) Desktop(I3Processor With 2GB DDR3 RAM) Desktop (I5 Processor With 16GB DDR4 RAM)
Total number of systems connected by LAN	350 Systems
Major software packages available	Yes
Special purpose facilities available (Conduct of online Meetings / Webinars / Workshops, etc.)	Google Meet, Zoom Meetings
Facilities for conduct of classes / courses in online mode (Theory & Practical)	Google Meet, Zoom Meetings, NPTEL, Swayam, MOOC, Udimi
Innovation Cell	Yes
Social Media Cell	Yes
Compliance of the National Academic Depository (NAD), applicable to PGCM / PGDM Institutions	Not Applicable

List of facilities available:

i. <u>Games and Sports Facilities</u>

Sl. No	Description	Details
1	Total area of the playground (sq.ft)	80000 sq.ft
		Ball Badminton
		Kabaddi

2	Outdoor Games	Hockey
		Volley Ball
		Foot Ball
3	Indoor Games	Carrom
		Chess

ii. Extra-Curricular Activities:

- VVIT has excellent sports and recreation facilities on campus, with dedicated facilities for Cricket, Football, Volleyball, Ball Badminton, Hockey, Athletics (Track & Field).
- Students participate regularly in Inter Collegiate, Inter University and Zone Level Tournaments and have won laurels for VVIT.
- The college sports activities are a part of their daily life and the college Annual Sports day is celebrated like none.

iii. Soft Skill Development Facilities:

The following soft skill development programs conducted in our institution such as,

Communication Skills

- Listening, Speaking, Reading, Writing and different modes of writing, Digital Literacy, Effective use of social media and Non-verbal communication

Professional Skills

- Career Skills, Resume Skills, Interview Skills, Group Discussion, Exploring Career Opportunities, and Team
- Skills Presentation Skills, Trust and Collaboration, Listening as a Team Skill, Brainstorming, Social and Cultural Etiquettes and Internal Communication **Leadership and Management Skills**
- Leadership Skills, Managerial Skills, Entrepreneurial Skills, Innovative Leadership and Design Thinking and Ethics and Integrity Universal **Human Values**
- Love & Compassion, Truth, Non-Violence, Righteousness, Peace, Service and Renunciation (Sacrifice).

Teaching Learning Process:

Curricula and syllabus for each of the Programme as approved by the University	As Per Anna university Regulation 2017 and Regulation 2021
Academic Calendar of the University	

Academic Time Table with the name of the faculty members handling the Course	LINK
Teaching Load of each Faculty	2 Theory and 1 Laboratory
Internal Continuous Evaluation System and place	As Per Anna university Regulation 2017 and Regulation 2021

Student's assessment of Faculty, System in place: Yes

For each Post Graduate Courses give the following:

Title of the Course: **M.E - Applied Electronics**

Curriculum and Syllabi:http://www.vvitengineering.com/lab/odd/M.E-applied-electronics.pdf

Laboratory facilities exclusive to the Post Graduate Course:

Name of the Laboratory	Equipment's	Available Quantity
AP5111 Electronic system design laboratory I	TMS320C XXXX DSP based Development trainer	5
AP5111 Electronic system design laboratory I	MSP430 Microcontroller development system with relevant IDE, interfacing hardware like matrix key pad, seven segment display, LCD module, point LED, switches, I2C based RTC and EPROM, temperature sensor, buzzer etc and programming facility	5
AP5111 Electronic system design laboratory I	8051 Microcontroller development system with relevant IDE, interfacing hardware like matrix key pad, seven segment display, LCD module, point LED, switches, I2C based RTC and EPROM, temperature sensor, buzzer etc and programming facility	5
AP5111 Electronic system design laboratory I	8086 Development trainer with basic interfacing modules	5
AP5111 Electronic system design laboratory I	Desktop computer	30
AP5111 Electronic system design laboratory I	PIC 16 XXX / 18 XXX Microcontroller development system with relevant IDE, interfacing hardware like matrix key pad, seven segment display, LCD module, point LED, switches, I2C based RTC and EPROM, temperature sensor, buzzer etc and programming facility	5

Title of the Course: **M.E – Computer Science and Engineering**

Curriculum and Syllabi: http://www.vvitengineering.com/lab/odd/M.E-CSE.pdf

Laboratory facilities exclusive to the Post Graduate Course:

Name of the Laboratory	Equipment's	Available Quantity
CP5261 Data Analytics Laboratory	Machines Windows 7/10	10
CP5261 Data Analytics Laboratory	Big data tools	10
CP5261 Data Analytics Laboratory	Hadoop / HOFC	10
CP5261 Data Analytics Laboratory	Map Reduce	10

Title of the Course : **M.E – Power Electronics and Drives**

Curriculum and Syllabi: http://www.vvitengineering.com/lab/odd/M.E-PED.pdf

Laboratory facilities exclusive to the Post Graduate Course:

Name of the Laboratory	Equipments	Available Quantity
PX4161 Power Converters Laboratory	Resistors	1
PX4161 Power Converters Laboratory	Software (Any software related to Power Electronics & Drives)	5

PX4161 Power Converters Laboratory	Single strand wires	1
PX4161 Power Converters Laboratory	Regulated Power Supply (0-30V, 2A)	5
PX4161 Power Converters Laboratory	Printer	1
PX4161 Power Converters Laboratory	Personal Computers	25
PX4161 Power Converters Laboratory	IR2110	1
PX4161 Power Converters Laboratory	Diodes	1
PX4161 Power Converters Laboratory	Digital Multimeter	5

PX4161 Power Converters Laboratory	CRO	5
PX4161 Power Converters Laboratory	Capacitors	1
PX4161 Power Converters Laboratory	Arduino or Micro Controller or PIC microcontroller alongwith interfacing cable	5
PX5211 Electrical Drives Laboratory	Cyclo converter fed induction motor drive	1
PX5211 Electrical Drives Laboratory	Digital storage oscilloscope	5
PX5211 Electrical Drives Laboratory	PMBLDC Drive	1
PX5211 Electrical Drives Laboratory	Power Quality Analyser	1
PX5211 Electrical Drives Laboratory	Single phase multilevel inverter fed with motor drive	1
PX5211 Electrical Drives Laboratory	SRM Drive with DSP controller	1
PX5211 Electrical Drives Laboratory	Stepper motor drive with microprocessor based control	1

PX5211 Electrical Drives Laboratory	Tachometers	10
PX5211 Electrical Drives Laboratory	Three phase synchronous generator	1
PX5211 Electrical Drives Laboratory	V/f control based Induction motor devices	1
PX5211 Electrical Drives Laboratory	Voltmeters	10
PX5211 Electrical Drives Laboratory	Ammeters	10
PX5211 Electrical Drives Laboratory	Chopper fed DC motor drive	1
PX5211 Electrical Drives Laboratory	Converter fed DC motor drive	1
PX4111 Analog And Digital ControllersFor PE Converters Laboratory	Power supply (0-5 V; 10A, 0-30V, 10A)	12
PX4111 Analog And Digital ControllersFor PE Converters	Resistors, capacitors	1
Laboratory		
PX4111 Analog And Digital Controllers For PE Converters Laboratory	Soldering rod, flux	1
PX4111 Analog And Digital Controllers For PE Converters Laboratory	Microcontroller Evaluation board (C2000 family/DSPIC/ARM)	12
PX4111 Analog And Digital Controllers For PE Converters Laboratory	General purpose PCBs/Breadboards	1
PX4111 Analog And Digital Controllers For PE Converters Laboratory	Opamp ICs	1
PX4111 Analog And Digital ControllersFor PE Converters Laboratory	Function generator	4
PX4111 Analog And Digital ControllersFor PE Converters Laboratory	Ferrite core, copper wires (Inductor Design)	1

PX4111 Analog And Digital ControllersFor PE Converters Laboratory	DSOs (2/4 channel)	12
PX4111 Analog And Digital ControllersFor PE Converters Laboratory	Desktop multimeters	12
PX4111 Analog And Digital ControllersFor PE Converters Laboratory	Desktop/Laptops	12
PX4111 Analog And Digital ControllersFor PE Converters Laboratory	555 timer ICs	1

Faculty List

Name of the Degree & Course : B.E.-Civil Engineering		
S.No	**Staff Name**	**Desgination**
1	Mr. Shanmugam J	Assistant Professor
2	Mr. Ramkumar M	Assistant Professor
3	Mr. Muniappan.M	Assistant Professor
4	Mr.Sathishkumar.M.N	Assistant Professor
5	Mr. SasiKumar	Assistant Professor
Name of the Degree & Course : S&H-Chemistry		
6	Dr. Sivakumar S	Professor
7	Ms. Jeeva.N	Assistant Professor
8	Mr. Govindarasu	Assistant Professor
9	Mrs. Porkodi	Assistant Professor
Name of the Degree & Course : B.E.-Computer Science and Engineering		
10	Ms.Vinodhini G	Assistant Profrssor
11	Ms. Sandhiya rani S	Assistant Profrssor
12	Ms. Jagatha.C	Assistant Profrssor
13	Ms. Kokila P	Assistant Profrssor
14	Ms. Nandhini A	Assistant Profrssor
15	Ms. Vidhya K	Assistant Profrssor
16	Mr. Ramu V	Assistant Profrssor
17	MS. Kiruthiga devi.M	Assistant Profrssor
18	Ms. Geetharani. M	Assistant Profrssor
19	Ms. Kayalvizli .N	Assistant Profrssor
20	Mr. Raja L.D	Assistant Profrssor
21	Ms Kiruthiga P	Assistant Profrssor
22	Mr. Sreenath P	Assistant Profrssor
23	Ms. Savithiri S	Assistant Profrssor
Name of the Degree & Course : M.E.-Computer Science and Engineering		

S.No	Staff Name	Desgination
24	Mr. Rajasekar R	Assistant Profrssor
25	Mr. Manigandan G	Assistant Profrssor
26	Ms. Nagajothi A	Assistant Profrssor
27	Ms. Gomathi M	Assistant Profrssor
Name of the Degree & Course : M.E.-Applied Electronics		
28	Mr. Kumar A	Assistant Profrssor
29	Mr. Lakashmanan M.A	Assistant Profrssor
30	Mr. Nandhakumar D	Assistant Profrssor
Name of the Degree & Course : B.Tech.-Artificial Intelligence and Data Science		
31	Ms. Anitha D	Assistant Profrssor
32	Ms. Supreadheeka	Assistant Profrssor
33	Ms. Samvesely S	Assistant Profrssor
34	Ms. Archanavishveswari S	Assistant Profrssor
35	Ms. Saritha R	Assistant Profrssor
Name of the Degree & Course : B.E.-Mechanical Engineering		
36	Dr. Sivakumar A	Professor
37	Mr. Magesh V	Assistant Profrssor
38	Mr. Karthikeyan C	Assistant Profrssor
39	Mr. Bharathi P	Assistant Profrssor
40	Mr. Thomatharan J	Assistant Profrssor
41	Mr. Arasu S	Assistant Profrssor
Name of the Degree & Course : S&H-Physics		
42	Mr. Angalagan K	Assisatant Professor
43	Ms. AkilaBakiyalakshmi K	Assisatant Professor
44	Mr. Muniappan C	Assisatant Professor
Name of the Degree & Course : S&H-Mathematics		
45	Dr.Usharani S	Associate Professor
46	Mr. Muniyappan C	Assistant Profrssor

S.No	Staff Name	Desgination
47	Ms. Sasikala S	Assistant Profrssor
48	Ms. Arputham A	Assistant Profrssor
49	Mr. Bhaskar S	Assistant Profrssor
50	Dr. Chinnavedi R	Assistant Profrssor
51	Mr. Aravinthkumar K	Assistant Profrssor
Name of the Degree & Course : B.E.-Electronics and Communication Engineering		
52	Ms. Kiruba K	Assistant Profrssor
53	Ms. Sudha T	Assistant Profrssor
54	Mr. Ravindran L A	Assistant Profrssor
55	Ms. Nivedhitha D	Assistant Profrssor
56	Ms. Anbumani V	Assistant Profrssor
57	Ms. Kanagavalli M	Assistant Profrssor
58	Mr. Rajkumar P	Assistant Profrssor
59	Mr. Thirumal L	Assistant Profrssor
60	Ms Ajeetha. A	Assistant Profrssor
61	Mr. Ashok M	Assistant Profrssor
Name of the Degree & Course : S&H-English		
62	Mr. Raguvaran T	Assistant Profrssor
63	Dr. Veera Pandiyan T	Assistant Profrssor
64	Mr. Karthich G	Assistant Profrssor
65	Mr. Maheswari R	Assistant Profrssor
Name of the Degree & Course : B.E.-Electrical and Electronics Engineering		
66	Mr. Prabhu S	Assistant Profrssor
67	Ms. Sowmiya S	Assistant Profrssor
68	Mr. Suresh S	Assistant Profrssor
69	Mr. Rameshkumar S	Assistant Profrssor
70	Ms. Gayathiri K	Assistant Profrssor
71	Mr. Sampathkumar P	Assistant Profrssor

S.No	Staff Name	Desgination
72	Ms. Tamilvani K	Assistant Profrssor
Name of the Degree & Course : B.E.-General Engineering		
73	Dr.Jothi M	Associate Professor
74	Ms. Vino R	Assistant Profrssor
75	Mr. Vimalan J	Assistant Profrssor
76	Ms. Shanthi Amutha	Assistant Profrssor
77	Ms. Santhiya S	Assistant Profrssor
78	Ms. Nithya M	Assistant Profrssor
79	Ms. Shanthi M	Assistant Profrssor
80	Mr. Naveenkumar N	Assistant Profrssor
81	Mr. Vijayakumar D	Assistant Profrssor
Name of the Degree & Course : B.Tech.-Information Technology		
82	Ms. Ramya D	Assistant Profrssor
83	Ms. Kalarasi P	Assistant Profrssor
84	Ms. Sathyasudha T	Assistant Profrssor
85	Ms. Kaviyarasi M	Assistant Profrssor
86	Ms. Hamsa C	Assistant Profrssor
87	Ms. Ezhilarasi D	Assistant Profrssor
88	Ms. Anitha T	Assistant Profrssor
89	Mr. Sathyakumar M	Assistant Profrssor
90	Ms. Shamilie M	Assistant Profrssor
91	Ms. Archana A	Assistant Profrssor
Name of the Degree & Course : M.E.-Power Electronics and Drives		
92	Ms. Kavitha. R	Assistant Profrssor
93	Ms. Navina U	Assistant Profrssor

Fee:

Details of Fee, as approved by State Fee Committee, for the Institution	BE / B. Tech	ME / M. Tech
Government Quota (Rs. Per Year)	50000	50000
Management Quota (Rs. Per Year)	50000	50000
Time schedule for payment of Fee for the entire Programme	Beginning of Every Semester	
Estimated cost of Boarding and Lodging in Hostels	Rs. 55000	Rs. 55000
Any other fee please specify	-	-

Admission Procedure:

Mention the admission test being followed, name and address of the Test Agency / State Admission	For B.E/B. Tech, TNEA (Tamil Nadu Engineering Admissions, Anna University, Chennai – 600 025). For M.E, TANCET / TANCA (Tamil Nadu Common Entrance Test, Anna University, Chennai – 600 025)
Authorities and its URL (website)	Web:www.annauniv.edu
Number of seats allotted to different Test Qualified candidate separately (AIEEE/ CET (State conducted test/ University tests/ CMAT/ GPAT)/ Association conducted test etc.)	**Consortium:**

Calendar for admission against Management / vacant seats:

Last date of request for applications	For B. E., / B. Tech / M. E/ M. Tech / MBA / MCA Association of Management of Coimbatore Anna University Affiliated Colleges, Coimbatore-641014
Last date of submission of applications	
Dates for announcing final results	
Release of admission list (main list and waiting list shall be announced on the same day)	
Date for acceptance by the candidate (time given shall in no case be less than 15days)	
Last date for closing of admission	As announced by the Anna University, Chennai and Directorate of Technical Education.
Starting of the Academic session	As announced by the Anna University. (June / July-Odd Sem / Dec/Jan Even Sem)
The waiting list shall be activated only on the expiry of date of main list	Yes
The policy of refund of the Fee, in case of withdrawal, shall be clearly notified	Yes

Criteria and Weight-ages for Admission:

Describe each criterion with its respective weightages i.e. Admission Test, marks in qualifying examination etc.	For B. E., / B. Tech Based on Higher Secondary Cutoff Mark, for M. E/ M. Tech / MBA / MCA Exam conducted for Maximum 100 Marks
Mention the minimum Level of acceptance, if any	General - 45%, BC including BC Muslim - 40% MBC & DNC - 40%, SC/SCA/ST - 40%

Information of Infrastructure and Other Resources Available:

Number of Class Rooms and size of each	44	Total value: 3348sqm
Number of Tutorial rooms and size of each	10	505sqm
Number of Laboratories and size of each	12	400 sqm
Number of Drawing Halls with capacity of each	5	60 each
Number of Computer Centre with capacity of each	5	60 each
Central Examination Facility, Number of rooms and capacity of each	2	
Online examination facility (Number of Nodes, Internet bandwidth, etc.)	450 Nodes	100 Mbps
Barrier Free Built Environment for disabled and elderly persons	Yes	
Occupancy Certificate	Yes	
Fire and Safety Certificate	Yes	
Hostel Facilities	Yes, A well-equipped, separate Hostel for both Boys and Girls	

Library:

i. **Number of Library books / Titles / Journals available (Programme-wise)**

Programme	Number of Titles	Number of Volumes	Number National of Journals	Number of International Journals	Number of eBook Titles	Number of eBook Volumes
Engineering and Technology	1006	21200	3423	2500	3450	40950
Total	1006	21200	3423	2500	3450	40950

ii. **List of online National/ International Journals subscribed**

E- Library facilities	eBook Volumes:	42685	DELNET
National Digital Library (NDL) subscription details	Yes		

Laboratory and Workshop:

i. **List of Major Equipment/Facilities in each Laboratory/Workshop**

Course	Level	Name of the Laboratory	Major Equipment's
Civil Engineering	Under Graduate	Computer Aided Building Drawing	AUTOCAD Software
Civil Engineering	Under Graduate	Computer Aided Drafting and Drawing Laboratory	STADD PRO Software
Civil Engineering	Under Graduate	Concrete And Highway Engineering Lab	Compression Testing Machine, Ductility Testing Machine
Civil Engineering	Under Graduate	Environmental Engineering Lab	BOD Incubator, Flame Photometer
Civil Engineering	Under Graduate	Hydraulic Engineering Lab	Kaplan Turbine, Peloton Turbine
Civil Engineering	Under Graduate	Irrigation And Environmental Engineering Drawing	Projector
Civil Engineering	Under Graduate	Soil Mechanics Laboratory	Tri-axial Compression Testing Machine
Civil Engineering	Under Graduate	Strength Of Materials Lab	Universal Tensile Testing Machine, Torsion Testing Machine
Civil Engineering	Under Graduate	Survey Practical Lab-1	Theodolite, Dumpy Level
Civil Engineering	Under Graduate	Survey Practical Lab-2	Total Station, Prismatic Compass

Computer Science And Engineering	Under Graduate	Internet Programming Lab/ Object Oriented Analysis Design Lab	Computer Desktops (Core 2 Duo With 2GB DDR2RAM)

Computer Science And Engineering	Under Graduate	Data Structures Lab/ Data Base Management Systems Lab	Computer Desktops (Core 2 Duo With 2GB DDR2RAM)
Computer Science And Engineering	Under Graduate	Python Programming /C Programming Lab	Computer Desktops (Core 2 Duo With 2GBDDR2 RAM)
Computer Science And Engineering	Under Graduate	Computer Networks Lab / Mobile Application Development Lab	Computer Desktops (Dual Core With 2GB DDR2 RAM)
Computer Science And Engineering	Under Graduate	Object Oriented Programming Lab/ Operating System Lab	Computer Desktops (Dual Core WITH 2GB DDR3 RAM)
Computer Science And Engineering	Under Graduate	Cloud Computing Lab/Security Lab	Computer Desktops (I3 Processor With 2GB DDR3 RAM)
Computer Science And Engineering	Post Graduate	Pg -Advanced Data Structure Lab	Computer Desktops (I3 Processor With 4 GB DDR3 RAM)
Electrical And Electronics Engineering	Under Graduate	Control And Instrumentation Lab	Transfer Function ofTwo-Phase AC Servo Motor
Electrical And Electronics Engineering	Under Graduate	Devices And Circuits Lab	Cathode Ray Oscilloscope
Electrical And Electronics Engineering	Under Graduate	Digital And IC Lab	1.Digital Storage Oscilloscope 2.PV Emulator
Electrical And Electronics Engineering	Under Graduate	Electrical Machines - I Lab	Rectifier Unit
Electrical And Electronics Engineering	Under Graduate	Electrical Machines-II Lab	3Phase Squirrel Cage Induction Motor
Electrical And Electronics Engineering	Under Graduate	Microprocessor And Micro Controller Lab	Advanced 8085 Microprocessor Trainer Kit
Electrical And Electronics Engineering	Under Graduate	Power Electronics & Drives Lab	IGBT Power Module

Electrical And Electronics Engg	Under Graduate	Power System Simulation Lab	Laptops -53nos
Power Electronics And Drives	Post Graduate	M.E-Power Electronics And Drives Lab	SR Motor Setup

Power Electronics And Drives	Post Graduate	Research Lab	Acer Desktop PC 30 Nos
Electronics & Communication Engineering	Under Graduate	Circuits And Devices Lab/Engineering Practice Lab	1. CRO 2. Function Generator 3. Power Supply 4. Decade Resistance Box 5.Decade Inductance Box
Electronics & Communication Engineering	Under Graduate	Analog And Digital Circuits Lab	1. Digital IC Trainer Kit 2. Digital IC Trainer with Built in Power Supply 3. Power Supply Unit
Electronics & Communication Engineering	Under Graduate	Circuits And Simulation Integrated Lab	1. Dual Trace Oscilloscope 2. DC Regulated Power Supply 3. Analog Meter 4. Function Generator
Electronics & Communication Engineering	Under Graduate	Linear Integrated Circuit Lab	1. Function Generator, 2.Dual Trace Oscilloscope Trainer 3. Regulated Power Supply 4. IC Tester,
Electronics & Communication Engineering	Under Graduate	Communication Systems Lab	1. Pam-PPM-PWM-Delta Modulation & Demodulation Trainer Kit 2. Pcm Receiver 3. DSO 4. CRO 5. Amp
Electronics & Communication Engineering	Under Graduate	Digital Signal Processing Lab	1.Matlab 2.Acer Systems 3.Tms320c50 Based DSP Starter Kit, Power Supply and Function Generator
Electronics & Communication Engineering	Under Graduate	Microprocessor & Microcontroller Lab	1. 8085, 8086 And 8051 Based Advanced Kit 2. ADC & DAC Card 3.Dc Motor Card 4.Traffic Light Controlled Card

Electronics & Communication Engineering	Under Graduate	Computer Networks Lab	1. Network Simulator Software, 2. LAN Trainer, 3. Wireless LAN Protocol Study Module
Electronics & Communication Engineering	Under Graduate	VLSI Lab	1. Spartan 3E Trainer Kit 2. Cool Runner-II 3. Xilinx ISE 4. FPGA Trainer 5. Acer Version M200 Desktop PC
Electronics & Communication Engineering	Under Graduate	Embedded Lab	1. Mc Based Dc Motor Controller 2. LVDT Module 3. Strain Gauge Module, 4. DataAcquisition System 5.Arm Processor Trainer Kit
Electronics & Communication Engineering	Under Graduate	Optical & Microwave Lab	1. Klystron Power Supply & Mount with Tube 2. Radiation Pattern Tube 3. VSWR Meter 4. CRO 5. Fibre Optical Trainer Kit
Mechanical Engineering	Under Graduate	CAD Lab	Solid Works Software
Mechanical Engineering	Under Graduate	CAM Lab	CNC Milling Machine
Mechanical Engineering	Under Graduate	Dynamics Laboratory	Vibrating Table
Mechanical Engineering	Under Graduate	First Year Workshop	Lathe
Mechanical Engineering	Under Graduate	Heat And Mass Transfer Lab	Heat Transfer Pin Fin Apparatus, Heat Transfer Forced Convection, Lagged Pipe Apparatus
Mechanical Engineering	Under Graduate	Manufacturing Technology Lab – I	Capstan Lathe
Mechanical Engineering	Under Graduate	Manufacturing Technology Lab – II	Vertical Milling Machine, Digital Milling, Tool Dynamometer
Mechanical Engineering	Under Graduate	Mechatronics Laboratory	Electro Pneumatic Kit
Mechanical Engineering	Under Graduate	Metrology And Measurement Lab	Floating Carriage, Micrometer
Mechanical Engineering	Under Graduate	Thermal Engineering Laboratory- I	Twin Cylinder Four Stroke Diesel Engine, 4 Cylinder Petrol Engine

ii. **List of Experimental Setup in each Laboratory/Workshop:**

Course	Level	Name of the Laboratory	Experimental Setup in each Laboratory/Workshop
Civil Engineering	Under Graduate	Computer Aided Building Drawing	1. Principles of planning, orientation and complete joinery details (Paneled and Glazed Doors and Windows) 2. Buildings with load bearing walls 3. Buildings with sloping roof 4. Industrial buildings – North light roof structures 5. Building Information Modeling
Civil Engineering	Under Graduate	Concrete And Highway Engineering Lab	1. Slump cone test 2. VEE BEE test 3. Crushing test 4. Flakiness And Elongation Indices 5. Impact Value
Civil Engineering	Under Graduate	Environmental Engineering Lab	1. Determination Of Suspended Cola tile, Fixed And Settle able Soils In Waste Water. 2. Determination Of PH In Given Chemicals 3. Determination Of Turbidity 4. Determination Of Conductivity
Civil Engineering	Under Graduate	Hydraulic Engineering Lab	1. Characteristics Of Centrifugal Pumps. 2. Characteristics Of Gear Pumps. 3. Characteristics Of Centrifugal Pumps. 4. Characteristics Of Friction Factor in Pipes. 5. Calibration Of Venturi Meterand Orifice meter.
Civil Engineering	Under Graduate	Irrigation And Environmental Engineering Drawing	Projector
Civil Engineering	Under Graduate	Soil Mechanics Laboratory	1. Specific Gravity of Soil Solids 2. Grain Size Distribution of Sieve Analysis 3. Field Density Test (Sand Replacement Method and Core Cutter Method) 4. Permeability Determination (Constant Head and Falling Method)
Civil Engineering	Under Graduate	Strength Of Materials Lab	1. Tension Test on Steel Rod 2. Double Shear Test on Metal 3. Impact Test on Metal Specimen (Chirpy) 4. Compression Test on Helical Spring 5. Compression Test on Wood
Civil Engineering	Under Graduate	Survey Practical Lab-1	1. Chain Traversing 2. Compass Traversing 3. PLAI Table Surveying 4. Fly Leveling Using Dumpy Level. 5. Contouring.

Civil Engineering	Under Graduate	Survey Practical Lab-2	1. Setting Out Works - Foundation Marketing Using Tapes Single Room and Double Room. 2. Compass Traversing-Measuring Bearings. 3. Fly Leveling Using Dumpy Level 4. Check Leveling 5. Measurement of Horizontal Angle and Reiteration and Repetition Method.
Civil Engineering	Post Graduate	Structural Engineering Lab	1. Determination Of In-Situ Strength and Quality Of Concrete Using Fabrication, Casting And Testing Of Simply Supported Reinforced Concrete Beam For Strength And Deflection Behavior. 2. Testing Of Simply Supported Steel Beam for Strength and Deflection Behavior. 3. Fabrication, Casting and Testing Of Reinforced Concrete Column Subjected To Concentric And Eccentric Loading. I)Rebound Hammer
Electrical And Electronics Engineering	Under Graduate	Control And Instrumentation Lab	1. P, PI and PID controllers 2. Position Control Systems 3. Bridge Networks –AC and DC Bridges 4. Power and Energy Measurement 5. Process Simulation
Electrical And Electronics Engineering	Under Graduate	Devices Circuits Lab And	1. Characteristics of Semiconductor diode and Zener diode 2. Characteristics of a NPN Transistor under common emitter, common collector and common base configurations 3. Characteristics of JFET and draw the equivalent circuit 4. Characteristics of UJT and generation of saw tooth waveforms Design and Frequency response characteristics of a Common Emitter amplifier
Electrical And Electronics Engineering	Under Graduate	Digital And IC Lab	1. Implementation of Boolean Functions, Adder and Sub tractor circuits. 2. Code converters: Excess-3 to BCD and Binary to Gray code converter and vice-versa 3. Parity generator and parity checking 4. Encoders and Decoders 5. Counters: Design and implementation of 3-bit modulo counters as synchronous and Asynchronous types using FF IC's and specific counter IC.
			1. Experiment on "VI-Characteristics and Efficiency of 1kWp Solar PV System". 2. Experiment on "Shadowing effect & diode-based solution in 1kWp Solar PV System".

			3. Experiment on Performance assessment of Grid connected and Standalone 1kWp Solar Power System. 4. Experiment on Performance assessment of micro–Wind Energy Generator. 5. Experiment on Performance Assessment of Hybrid (Solar-Wind) Power System.
Electrical And Electronics Engineering	Under Graduate	Electrical Machines - I Lab	1. Open circuit and load characteristics of DC shunt generator- critical resistance and critical speed. 2. Load characteristics of DC compound generator with differential and cumulative connections. 3. Load test on DC shunt motor. 4. Load test on DC compound motor. 5. Load test on DC series motor.

Electrical And Electronics Engineering	Under Graduate	Electrical Machines-II Lab	1. Regulation of three phase alternator by EMF and MMF methods. 2. Load test on three-phase induction motor. No 3. load and blocked rotor tests on three-phase induction motor (Determination of equivalent circuit parameters).test. 4. Separation of No-load losses of three-phase induction motor. 5. Load test on single-phase induction motor.
Electrical And Electronics Engineering	Under Graduate	Microprocessor And Micro Controller Lab	1. Simple arithmetic operations: addition / subtraction / multiplication / division. 2. Programming with control instructions: a. Ascending / Descending order, Maximum / Minimum of numbers. b. Programs using Rotate instructions. c. Hex / ASCII / BCD code conversions. 3.I nterface Experiments: with 8085 (i) A/D Interfacing & D/A Interfacing. 4. Traffic light controller. 5. I/O Port / Serial communication
Electrical And Electronics Engineering	Under Graduate	Power Electronics & Drives Lab	1.2.3. Gate Pulse Generation using R, RC and UJT. 4. Characteristics of SCR and TRIAC Characteristics of MOSFET and IGBT AC to DC half controlled converter 5. AC to DC fully controlled Converter
Electrical And Electronics Engineering	Under Graduate	Power System Simulation Lab	1. Computation of Transmission Line Parameters 2. Formation of Bus Admittance and Impedance Matrices and Solution of Networks 3. Power Flow Analysis using Gauss-Seidel Method 4. Power Flow Analysis using Newton Rapson Method 5. Symmetric and unsymmetrical fault analysis

Power Electronics And Drives	Post Graduate	M.E-Power Electronics and Drives Lab	1. Speed control of Converter fed DC motor. 2. Speed control of Chopper fed DC motor. 3. V/f control of three-phase induction motor. 4. Micro controller-based speed control of Stepper motor. 5. Speed control of BLDC motor.
Power Electronics And Drives	Post Graduate	Research Lab	1. Modeling and system simulation of basic electric circuits using 2. MATLABSIMULINK/SCILAB 3. Modeling and System simulation of basic power electronic circuits using 4. MATLAB-SIMULINK/SCILAB 5. Modeling and System Simulation of SCR based full converter with different types of loads using MATLAB-Simulink/SCILAB 6. Circuit Simulation of Voltage Source Inverter and study of spectrum analysis with and without filter using MATLAB/SCILAB

Electronics & Communication Engineering	Under Graduate	Circuits And Devices Lab/Engineering Practice Lab	1. Characteristics of PN junction diode 2.Zener diode Characteristics and regulator using zener diode 3.FET Characteristics. 4. SCR Characteristics. 5. Clipper and Clamper & FWR
Electronics & Communication Engineering	Under Graduate	Analog And Digital Circuits Lab	1. Design of Regulated power supply. 2.Darlington Amplifier 3.Cascode and Cascade amplifier 4.Design and implementation of code converter using logic gates (i) BCD to excess-3 code and vice versa. 5.Design and implementation of 3- bit synchronous up/down counter
Electronics & Communication Engineering	Under Graduate	Circuits And Simulation Integrated Lab	1. RC phase shift oscillator and wien bridge oscillator 2.Hartley oscillator and colpitts Oscillator 3. Single tuned amplifier 4. Tuned Collector Oscillator using SPICE Simulation 5. Bitable Multivibrator
Electronics & Communication Engineering	Under Graduate	Linear Integrated Circuit Lab	1. Inverting, Non inverting and differential amplifier. 2. Integrator and Differentiator. Active low pass, high-pass, and band-pass fliters, 4. Schmitt Trigger using op-amp 5.Study of SMPS
Electronics & Communication Engineering	Under Graduate	Communication Systems Lab	1. Signal sampling and Reconstruction 2.Time division multiplexing 3.AM modulator and Demodulator 4.FM modulator and Demodulator 5.Line coding schemes

Electronics & Communication Engineering	Under Graduate	Digital Signal Processing Lab	1. Generation of elementary Discrete -Time sequences 2. Linear and circular convolutions 3. Auto correlation and cross correlation 4. Frequency Analysis using DFT Study of Architecture of Digital Signal Processor
Electronics & Communication Engineering	Under Graduate	Microprocessor & Microcontroller Lab	1. Basic arithmetic and logical operations 2.Move a data block without overlap 3. Code conversion, decimal arithmetic and matrix operations. 4. Counter and time delay Traffic light controller
Electronics & Communication Engineering	Under Graduate	Computer Networks Lab	1. Implementation of error Detection and Error Correction Techniques 2. Implementation of Stop and Wait Protocol and Sliding Window. 3. Implementation of High-Level Data Link Control 4. Implementation of IP address configuration 5. Network Topology -Star, Bus, Ring

Electronics & Communication Engineering	Under Graduate	VLSI Lab	1. Design and simulate a CMOS inverter using digital flow 2. Design an adder using HDL. Simulate it using Xilinx Software 3. Design and Simulate a 4-bit synchronous counter using Flip-Flops 4. Design Finite State using HDL 5. Design Memories using HDL
Electronics & Communication Engineering	Under Graduate	Embedded Lab	1. Study of ARM evaluation system 2. Interfacing ADC and DAC 3. Interfacing LED and PWM 4. Interfacing real time clock and Serial port Flashing of LEDS
Electronics & Communication Engineering	Under Graduate	Optical & Microwave Lab	1. Measurement of connector, bending and fiber attenuation losses 2. Numerical aperture and Mode Characteristics of Fibers 3. Wireless Channel Simulation including fading and Doppler effect 4. VSWR and Impedance Measurement and Impedance Matching 5. Gunn Diode Characteristics

Mechanical Engineering	Under Graduate	Manufacturing Technology Laboratory I	Centre Lathes, Horizontal Milling Machine, Vertical Milling Machine Shaper, Arc welding transformer with cables and holders, Oxygen and acetylene gas cylinders, blow pipe and other welding outfit Molding table, Molding equipment's, Sheet metal forming tools and equipment's.
Mechanical Engineering	Under Graduate	Computer Aided Machine Drawing	Computers with necessary accessories
Mechanical Engineering	Under Graduate	Manufacturing Technology Laboratory II	Turret and Capstan Lathes, Horizontal Milling Machine, Vertical Milling Machine, Surface Grinding Machine, Cylindrical Grinding Machine Radial Drilling Machine, lathe Tool Dynamometer, Milling Tool Dynamometer, Gear Hobbling Machine, Tool Makers Microscope, CNC Lathe, CNC milling machine, Gear Shaper machine, Center less grinding machine, Tool and cutter grinder
Mechanical Engineering	Under Graduate	Strength Of Materials And Fluid Mechanics And Machinery Laboratory	Universal Tensile Testing machine with double 1 shear attachment –40 Ton Capacity, Torsion Testing Machine (60 NM Capacity), Impact Testing Machine (300 J Capacity), Brinell Hardness Testing Machine, Rockwell Hardness Testing Machine,
			Spring Testing Machine for tensile and compressive loads (2500 N), Metallurgical Microscopes, Muffle Furnace (800 C), Orifice meter setup, Venturi meter setup, Rota meter setup Pipe Flow analysis setup, Centrifugal pump/submergible pump setup Reciprocating pump setup, Gear pump setup, Peloton wheel setup Francis turbine setup, Kaplan turbine setup
Mechanical Engineering	Under Graduate	Kinematics And Dynamics Laboratory	Cam follower setup, Motorized gyroscope, Governor apparatus - Watt, Porter, Proell and Hartnell governors, Whirling of shaft apparatus, Dynamic balancing machine, Two rotor vibration setup, Spring mass vibration system, Torsional Vibration of single rotor system setup, Gear Models, Kinematic Models to study various mechanisms, Turn table apparatus, Transverse vibration setup of cantilever

Mechanical Engineering	Under Graduate	Thermal Engineering Laboratory	I.C Engine – 2 stroke and 4 stroke model, Apparatus for Flash and Fire Point 4-stroke Diesel Engine with mechanical loading, 4-stroke Diesel Engine with hydraulic loading, 4-stroke Diesel Engine with electrical loading Multi-cylinder Petrol Engine, Single cylinder Petrol Engine, Data Acquisition system with any one of the above engines, Steam Boiler with turbine setup, guarded plate apparatus, lagged pipe apparatus, Natural convection-vertical cylinder apparatus, forced convection inside tube apparatus, Composite wall apparatus, Thermal conductivity of insulating powder apparatus, Pin-fin apparatus, Stefan-Boltzmann apparatus, Emissivity measurement apparatus, Parallel/counter flow heat exchanger apparatus, Single/two stage reciprocating air compressor, Refrigeration test rig, Air-conditioning test rig,
Mechanical Engineering	Under Graduate	Metrology And Measurements Laboratory	Micrometer, Vernier Caliper, Vernier Height Gauge, Vernier depth Gauge Slip Gauge Set, Gear Tooth Vernier, Sine Bar, Floating Carriage Micrometer, Profile Projector / Tool Makers Microscope, Parallel / counter flow heat exchanger apparatus, Mechanical / Electrical / Pneumatic Comparator, Autocollimator, Temperature Measuring Setup, Force Measuring Setup, Torque Measuring Setup, Coordinate measuring machine Surface finish measuring equipment, Bore gauge, Telescope gauge
Mechanical Engineering	Under Graduate	CAD/CAM Laboratory	Computer Server, Computer nodes or systems (High end CPU with at least 1 GB main memory) networked to the server A3 size plotter, Laser Printer
Mechanical Engineering	Under Graduate	Simulation And Analysis Laboratory	Computer Work Station, Color Desk Jet Printer, Multibody Dynamic Software Suitable for Mechanism simulation and analysis, C / MATLAB
Mechanical Engineering	Under Graduate	Mechatronics Laboratory	Basic Pneumatic Trainer Kit with manual and electrical controls/ PLC Control each Hydraulics and Pneumatics Systems Simulation Software 8051 - Microcontroller kit with stepper motor and drive circuit sets

Computing Facilities:

Internet Bandwidth	200 Mbps
Number and configuration of System	Desktop (Core 2 Duo With 4GB DDR2 RAM) Desktop (Dual Core With 4GB DDR2 RAM) Desktop(I3Processor With 2GB DDR3 RAM) Desktop (I5 Processor With 16GB DDR4 RAM)
Total number of systems connected by LAN	350 Systems
Major software packages available	Yes
Special purpose facilities available (Conduct of online Meetings / Webinars / Workshops, etc.)	Google Meet, Zoom Meetings
Facilities for conduct of classes / courses in online mode (Theory & Practical)	Google Meet, Zoom Meetings, NPTEL, Swayam, MOOC, Udimi
Innovation Cell	Yes
Social Media Cell	Yes
Compliance of the National Academic Depository (NAD), applicable to PGCM / PGDM Institutions	Not Applicable

List of facilities available:

i. <u>Games and Sports Facilities</u>

Sl. No	Description	Details
1	Total area of the playground (sq.ft)	80000 sq.ft
2	Outdoor Games	Ball Badminton
		Kabaddi
		Hockey
		Volley Ball
		Foot Ball
3	Indoor Games	Carrom
		Chess

ii. Extra-Curricular Activities:

- VVIT has excellent sports and recreation facilities on campus, with dedicated facilities for Cricket, Football, Volleyball, Ball Badminton, Hockey, Athletics (Track & Field).
- Students participate regularly in Inter Collegiate, Inter University and Zone Level Tournaments and have won laurels for VVIT.
- The college sports activities are a part of their daily life and the college Annual Sports day is celebrated like none.

iii. Soft Skill Development Facilities:

The following soft skill development programs conducted in our institution such as,

Communication Skills

- Listening, Speaking, Reading, Writing and different modes of writing, Digital Literacy, Effective use of social media and Non-verbal communication

Professional Skills

- Career Skills, Resume Skills, Interview Skills, Group Discussion, Exploring Career Opportunities, and Team
- Skills Presentation Skills, Trust and Collaboration, Listening as a Team Skill, Brainstorming, Social and Cultural Etiquettes and Internal Communication **Leadership and Management Skills**
- Leadership Skills, Managerial Skills, Entrepreneurial Skills, Innovative Leadership and Design Thinking and Ethics and Integrity Universal **Human Values**
- Love & Compassion, Truth, Non-Violence, Righteousness, Peace, Service and Renunciation (Sacrifice).

Teaching Learning Process:

Curricula and syllabus for each of the Programme as approved by the University	As Per Anna university Regulation 2017 and Regulation 2021
Academic Calendar of the University	
Academic Time Table with the name of the faculty members handling the Course	LINK
Teaching Load of each Faculty	2 Theory and 1 Laboratory
Internal Continuous Evaluation System and place	As Per Anna university Regulation 2017 and Regulation 2021

Student's assessment of Faculty, System in place: Yes

For each Post Graduate Courses give the following:

Title of the Course: **M.E - Applied Electronics**

Curriculum and Syllabi:http://www.vvitengineering.com/lab/odd/M.E-applied-electronics.pdf

Laboratory facilities exclusive to the Post Graduate Course:

Name of the Laboratory	Equipment's	Available Quantity
AP5111 Electronic system design laboratory I	TMS320C XXXX DSP based Development trainer	5
AP5111 Electronic system design laboratory I	MSP430 Microcontroller development system with relevant IDE, interfacing hardware like matrix key pad, seven segment display, LCD module, point LED, switches, I2C based RTC and EPROM, temperature sensor, buzzer etc and programming facility	5
AP5111 Electronic system design laboratory I	8051 Microcontroller development system with relevant IDE, interfacing hardware like matrix key pad, seven segment display, LCD module, point LED, switches, I2C based RTC and EPROM, temperature sensor, buzzer etc and programming facility	5
AP5111 Electronic system design laboratory I	8086 Development trainer with basic interfacing modules	5
AP5111 Electronic system design laboratory I	Desktop computer	30
AP5111 Electronic system design laboratory I	PIC 16 XXX / 18 XXX Microcontroller development system with relevant IDE, interfacing hardware like matrix key pad, seven segment display, LCD module, point LED, switches, I2C based RTC and EPROM, temperature sensor, buzzer etc and programming facility	5

Title of the Course: **M.E – Computer Science and Engineering**

Curriculum and Syllabi: http://www.vvitengineering.com/lab/odd/M.E-CSE.pdf

Laboratory facilities exclusive to the Post Graduate Course:

Name of the Laboratory	Equipment's	Available Quantity
CP5261 Data Analytics Laboratory	Machines Windows 7/10	10
CP5261 Data Analytics Laboratory	Big data tools	10
CP5261 Data Analytics Laboratory	Hadoop / HOFC	10
CP5261 Data Analytics Laboratory	Map Reduce	10

Title of the Course : **M.E – Power Electronics and Drives**

Curriculum and Syllabi: http://www.vvitengineering.com/lab/odd/M.E-PED.pdf

Laboratory facilities exclusive to the Post Graduate Course:

Name of the Laboratory	Equipments	Available Quantity
PX4161 Power Converters Laboratory	Resistors	1
PX4161 Power Converters Laboratory	Software (Any software related to Power Electronics & Drives)	5
PX4161 Power Converters Laboratory	Single strand wires	1
PX4161 Power Converters Laboratory	Regulated Power Supply (0-30V, 2A)	5
PX4161 Power Converters Laboratory	Printer	1
PX4161 Power Converters Laboratory	Personal Computers	25
PX4161 Power Converters Laboratory	IR2110	1

PX4161 Power Converters Laboratory	Diodes	1
PX4161 Power Converters Laboratory	Digital Multimeter	5

PX4161 Power Converters Laboratory	CRO	5
PX4161 Power Converters Laboratory	Capacitors	1
PX4161 Power Converters Laboratory	Arduino or Micro Controller or PIC microcontroller alongwith interfacing cable	5
PX5211 Electrical Drives Laboratory	Cyclo converter fed induction motor drive	1
PX5211 Electrical Drives Laboratory	Digital storage oscilloscope	5
PX5211 Electrical Drives Laboratory	PMBLDC Drive	1
PX5211 Electrical Drives Laboratory	Power Quality Analyser	1
PX5211 Electrical Drives Laboratory	Single phase multilevel inverter fed with motor drive	1
PX5211 Electrical Drives Laboratory	SRM Drive with DSP controller	1
PX5211 Electrical Drives Laboratory	Stepper motor drive with microprocessor based control	1
PX5211 Electrical Drives Laboratory	Tachometers	10
PX5211 Electrical Drives Laboratory	Three phase synchronous generator	1
PX5211 Electrical Drives Laboratory	V/f control based Induction motor devices	1
PX5211 Electrical Drives Laboratory	Voltmeters	10
PX5211 Electrical Drives Laboratory	Ammeters	10
PX5211 Electrical Drives Laboratory	Chopper fed DC motor drive	1

PX5211 Electrical Drives Laboratory	Converter fed DC motor drive	1
PX4111 Analog And Digital ControllersFor PE Converters Laboratory	Power supply (0-5 V; 10A, 0-30V, 10A)	12
PX4111 Analog And Digital ControllersFor PE Converters	Resistors, capacitors	1
Laboratory		
PX4111 Analog And Digital Controllers For PE Converters Laboratory	Soldering rod, flux	1
PX4111 Analog And Digital Controllers For PE Converters Laboratory	(C2000 Microcontroller Evaluation board family/DSPIC/ARM)	12
PX4111 Analog And Digital Controllers For PE Converters Laboratory	General purpose PCBs/Breadboards	1
PX4111 Analog And Digital Controllers For PE Converters Laboratory	Opamp ICs	1
PX4111 Analog And Digital ControllersFor PE Converters Laboratory	Function generator	4
PX4111 Analog And Digital ControllersFor PE Converters Laboratory	Ferrite core, copper wires (Inductor Design)	1
PX4111 Analog And Digital ControllersFor PE Converters Laboratory	DSOs (2/4 channel)	12
PX4111 Analog And Digital ControllersFor PE Converters Laboratory	Desktop multimeters	12
PX4111 Analog And Digital ControllersFor PE Converters Laboratory	Desktop/Laptops	12
PX4111 Analog And Digital ControllersFor PE Converters Laboratory	555 timer ICs	1