



KERALA TECHNOLOGICAL UNIVERSITY
CET Campus, Thiruvananthapuram
Kerala -695016 India

ANNUAL REPORT

Report Generated On: 24/10/2019

Basic Details

Reporting Year	2017 - 2018
Institution Name	METS SCHOOL OF ENGINEERING, MALA
Principal Name	Dr. P. Suresh Venugopal

Governing Board (BoG)

Governing Board in Place	Yes
Number of Members in BOG	9
Number of members from Industry	5
Number of Academicians from outside BOG	4
No of BoG meetings conducted in the reporting year	4

Facilities Newly Added

Built up area added, if any (m2)	
Built up area added, purpose	
New lab added, If yes name of the lab	
No of New books added in the library	252
No of National journals/ International journals (Hard copy) subscribed	60
Digital library facility, If yes, no of e-books added	10
Digital library facility, If yes, no of e-journals subscribed	15
No of computers added, if any	
Software procured, if any	

Accreditation Details

Naac Accreditation Details

NAAc Accreditation	No
Grade	NOT ACCREDITED

NIRF Ranking Details

NIRF Rank	
NIRF Remarks	NO NIRF RANKING

Other Details

Other details

Other Ranking Agency Remarks	Details
	NIL

Principal Details

Full Name	Highest Qualification	Period
Dr. P. Suresh Venugopal	Ph.D	12

Staff/Faculty Details

No of Head of the Depts	7
No of faculty placed under CAS	0
No of faculty promoted	0

Faculty details (exclude Principal)

Department	Ph-D holders		M.Tech/PG holders		B.Tech holders		Regular	Adhoc	Contract
	Min	Max	Min	Max	Min	Max			
BT	3	3	19	19	0	0	22	0	0
EC	1	1	17	17	0	0	18	0	0
CE	0	0	15	15	0	0	15	0	0
ME	1	1	18	18	0	0	19	0	0
CS	2	2	17	17	0	0	19	0	0

EE	0	0	14	14	0	0	14	0	0
BS	0	0	10	10	0	0	10	0	0

Support Staff details

Staff Type	Min	Max
Administrative	48	44
Library	4	4
Technical	18	18

Student Strength Details

B.Tech						
Branch	I Year	II Year	III Year	IV Year	V Year	Total
BIOTECHNOLOGY	26	45	23	16		110
CIVIL ENGINEERING	11	32	32	57		132
COMPUTER SCIENCE & ENGINEERING	11	34	15	34		94
ELECTRICAL AND ELECTRONICS ENGINEERING	0	9	7	16		32
ELECTRONICS & COMMUNICATION ENGG	0	18	11	32		61
MECHANICAL ENGINEERING	11	54	55	63		183
M.Tech						
Branch	I Year	II Year	III Year	IV Year	V Year	Total
BIO TECHNOLOGY	4	3				7
COMPUTER SCIENCE AND ENGINEERING	0	0				0
ELECTRONICS AND COMMUNICATION ENGINEERING	2	0				2
COMPUTER SCIENCE AND ENGINEERING	0	0				0

Facilities

No of class rooms	44
No of class rooms with LCD projectors	6
No of tutorial rooms	22

Name of equipment	Lab/Dept	USE	Cost
CCTV CAMERA	ALL DEPARTMENTS	DISCIPLINE	117000

Journal publications by faculty or students

Name of Journal	Author	Faculty/Student	Title of Paper	Issue No/Page No
IEEE Proceedings	Linss T Alex, S.S Dash, Jaikrishna V,R.Sridhar	Faculty	Design and Analysis of Push-Pull-Flyback Interleaved Converters for Photovoltaic System	757 - 761
IOSR Journal of Engineering	Linss T Alex, Mandeep Anand, Rahul P P, Eldhose K P	Faculty	Design of Interleaved Push Pull Converter For Photovoltaic Systems	ISSN (e): 2250-3021, pp 73-80
IOSR Journal of Engineering	Mandeep Anand, Rahul P P, Eldhose K P,Linss T Alex	Student	Design of Interleaved Push Pull Converter For Photovoltaic Systems	ISSN (e): 2250-3021, pp 73-80
Journal of Biotechnology and Bioengineering	Dr. Madhu P C	Faculty	Production of Bacterial Acid Protease by Submerged Fermentation using Aeromonascaviae from Dairy Effluent	ISSN 2637-5362

International Journal of Mechanical Engineering Technology (IJMRT)	Arun M P, Dr M Satheesh	Faculty	Analytical Investigation of Implementation of Fences on Cropped Delta Wing for the Improvement of Performance Parameters	Volume 9, Issue 1, January 2018, pp. 538-548
International Journal of Mechanical Production Engineering Research Development (IJMPERD)	Arun M P, Dr M Satheesh	Faculty	Fluid-Structure Interaction of Cropped Delta Wing with Experimental validation	Vol. 8, Issue 4, Aug 2018, pp. 485-498

Conference publications by faculty or students

Name of Conference	Author	Faculty/Student	Title of Paper	Place of Conference
International Conference on Power, Communication and Sustainable Energy System(ICPCSES-18)	Linss T Alex	Faculty	Performance Analysis of Modular Forward Converter in IPOS Architecture using PI and Fuzzy Logic Controller	SRM University Campus, Chennai
National Conference ?Emerging Research Trends in Electrical Engineering-2018(ERTEE?18)	Mandeep Anand, Rahul P P, Eldhose K P Linss T Alex	Student	Design of Interleaved Push pull Converter for Photovoltaic System	Adi Shankara Institute of Engineering and Technology, Kalady
6th International Conference on Renewable Energy Research and Applications(ICRE RA 2017)	Linss T Alex Jaikrishna V R.Sridhar, S.S Dash	Faculty	Design and Analysis of Push-Pull-Flyback Interleaved Converters for Photovoltaic System	San Diego, USA

National Conference ?Emerging Research Trends in Electrical Engineering-2018(ERTEE?18)	Linss T Alex, Mandeep Anand, Rahul P P, Eldhose K P	Faculty	Design of Interleaved Push pull Converter for Photovoltaic System	Adi Shankara Institute of Engineering and Technology, Kalady
2nd International Conference on Modelling Simulation and Control (ICMSE 2017)	Arun M P, Dr M Satheesh	Faculty	Aerodynamic Review of Delta Wing by Using CAD/CAE Software	Karapagam College of Engineering, Coimbatore
International Conference on Mass Spectrometry	Phonsy P D	Faculty	Green Technology based Solar Photocatalysis for the removal of Recalcitrant toxic pollutants from Water	Gandhi University

FDP Details

Name of Faculty	Designation	Name of program	Name of Organizer	Name of Sponsor	Period
Linss T Alex	Assistant Professor	Distributed Generation and Smart Grid	Federal Institute of Science and Technology (FISAT)		2 Days
Linss T Alex	Assistant Professor	Power Electronic System Design and Applications	Coimbatore Institute of Technology (CIT)		7 Days
Linss T Alex	Assistant Professor	Power System and Control Engineering	SCMS School of Engineering and Technology		2 Days
Jineeth Raju	Assistant Professor	Power System and Control Engineering	SCMS School of Engineering and Technology		2 Days

E.Balachandar	Assistant Professor	Industry-Institution Interaction Program	Livewire		1 Day
Sanaj M. S.	Assistant Professor	IoT, Cloud Computing Big Data Analytics	ASIET, Kalady		4 Days
Deepak Varghese	Assistant Professor	Student induction	Rajagiri college of Engg and technology, Kochi		3 Days
Phonsy P. D.	Professor	Environmental Degradation and Climate Change -A Holistic Approach	CUSAT		1 Day
Phonsy P. D.	Professor	Impairment on Ocean Health due to Inadequate Waste Management on the Terrains	CUSAT		1 Day
Phonsy P. D.	Professor	Integrated Water Resource Management	CUSAT		1 Day

FDP conducted by the college

Name of program	Name of Sponsor	Period	No.of Internal Participants	No.of External Participants
Excellence Unlimited		3 Day	60	0

Continuing Education Programs

Social Activities(NCC/NSS/Community Services etc)

Activity	No.of student members	camp/other special programme(mention the name of programme)	No.of Participants	Date
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NSS	100	Miniature forest creation	30	04/07/2017
NSS	100	Miniature forest creation	20	05/07/2017
NSS	100	Activity against drug abuse	50	29/07/2018
NSS	100	Sustainable development Seminar	40	05/08/2017
NSS	100	Social activity at Govt Mental Health centre, Thrissur	25	19/08/2017
NSS	100	Social activity at Snehalayam Orphanage, Annam anada	25	02/09/2017
NSS	100	Social activity at Govt Mental health centre, Thrissur	25	23/09/2017
NSS	100	Awareness Program- Change Your Thoughts in association with Mobile Awareness Wing of City Police -Thrissur	98	26/09/2017
NSS	100	ONE MILLION GOAL-Program related to under 17 world cup campaign	85	27/09/2017
NSS	100	Cancer Survey at Padiyur Grama Panchayat-a program of Vellangallur Block Panchayat	70	29/10/2017
NSS	100	Neighbourhood youth Parliament	100	30/01/2018

NSS	100	Painting of Govt LP School -Mala in connection with the 125th anniversary of the school (work done-13/2/2018 to 7/3/2018)	100	13/02/2018
NSS	100	Seminar-Gandhian Thoughts and its present relevance	97	09/03/2018
NSS	100	Appreciation award for our NSS unit-received from the Minister for education for painting Govt LP School -Mala	25	10/03/2018
NSS	100	Appreciation award for our NSS unit-received from Kodungallur MLA for doing cancer survey at padiyur grama panchayat	25	10/03/2018
NSS	100	Construction of House at Vellangallur- under life mission project (25/3/2018 to 30/3/2018)	50	25/03/2018
NSS	100	Jaiva Saksharatha Yajnam at Parapookkara Grama Panchayat (22/12/2017 to 28/12/2017) special camping programme	50	22/12/2017
NSS	100	Pond cleaning - water harvesting program-ward 12 of Mala Grama Panchayat	25	22/04/2018

NSS	100	volunteer duty in connection with second anniversary of Kerala Ministry (19/5/2018 to 26/5/2018)	5	19/05/2018
NSS	100	Planting of trees at Thekkinkadu Maidan- in connection with world environment day celebrations	10	05/06/2018

Industry/Institute

Industry/External Experts Lectures

Name Of Expert	Industry/Institute	Topic	Date	Beneficiaries	Number of Beneficiaries
Er.K.Balan	1	How To Start A Viable Industry In Electrical Engineering?	01/03/2018	S	37

Result

B.Tech							
Branch	Semester	All Pass	GPA above 8.5	GPA 7.5-8.5	Ineligible for promotion	Failed in all theory courses	
BIOTECHNOLOGY	1	11	2	6	0	0	
CIVIL ENGINEERING	1	3	0	2	0	1	
COMPUTER SCIENCE & ENGINEERING	1	1	0	1	0	0	
MECHANICAL ENGINEERING	1	0	0	0	0	0	
BIOTECHNOLOGY	3	9	0	0	0	0	
CIVIL ENGINEERING	3	7	1	6	0	0	
COMPUTER SCIENCE & ENGINEERING	3	1	0	1	0	6	
ELECTRICAL AND ELECTRONICS ENGINEERING	3	1	1	0	0	7	

ELECTRONICS & COMMUNICATION ENGG	3	0	0	0	0	0
MECHANICAL ENGINEERING	3	3	0	1	0	24
BIOTECHNOLOGY	5	10	0	7	0	5
CIVIL ENGINEERING	5	10	0	4	0	4
COMPUTER SCIENCE & ENGINEERING	5	4	0	1	0	3
ELECTRICAL AND ELECTRONICS ENGINEERING	5	1	0	1	0	2
ELECTRONICS & COMMUNICATION ENGG	5	4	1	3	0	1
MECHANICAL ENGINEERING	5	18	0	8	0	10
BIOTECHNOLOGY	2	17	0	6	3	0
CIVIL ENGINEERING	2	15	5	4	7	0
COMPUTER SCIENCE & ENGINEERING	2	5	0	2	6	0
ELECTRICAL AND ELECTRONICS ENGINEERING	2	2	1	1	4	1
ELECTRONICS & COMMUNICATION ENGG	2	1	0	1	2	1
MECHANICAL ENGINEERING	2	13	0	2	8	1
BIOTECHNOLOGY	4	3	0	1	3	0
CIVIL ENGINEERING	4	3	0	2	2	1
COMPUTER SCIENCE & ENGINEERING	4	4	0	0	0	0
ELECTRICAL AND ELECTRONICS ENGINEERING	4	1	0	0	1	0
ELECTRONICS & COMMUNICATION ENGG	4	2	0	1	0	1
MECHANICAL ENGINEERING	4	5	0	2	3	0
M.Tech						
Branch	Seme ster	All Pass	GPA above 8.5	GPA 7.5- 8.5	Ineligible for promotion	Failed in all theory courses

BIO TECHNOLOGY	3	3	0	2	0	0
BIO TECHNOLOGY	4	2	2	0	0	0
COMPUTER SCIENCE AND ENGINEERING	4	2	2	0	0	0
COMPUTER SCIENCE AND ENGINEERING	4	2	2	0	0	0
ELECTRONICS AND COMMUNICATION ENGINEERING	4	7	3	3	0	0
BIO TECHNOLOGY	2	3	2	1	0	0

PTA/Alumni Details

Alumni Association

Meeting No	Date	Executive committee/ General body	No of Alumni attended
1	27/12/2017	General Body (2002 2003 Admission Batch)	30

PTA Meetings

Meeting No	Date	Executive committee/ General body	No of parents attended
1	10/08/2017	S3 EEE - Class PTA	10
2	28/09/2017	S3 EEE - Class PTA	2
3	27/09/2018	S5 EEE - Class PTA	10
4	19/02/2018	S4 EEE - Class PTA	10
5	20/02/2018	S6 EEE - Class PTA	1
6	19/08/2017	S3, S5 CE - Class PTA	38
7	21/02/2018	S4, S6 CE - Class PTA	60
8	09/08/2017	S3 CSE - Class PTA	25
9	19/02/2018	S4 CSE - Class PTA	37
10	20/02/2018	S6 CSE - Class PTA	10
11	22/03/2018	S4 CSE - Class PTA	12
12	15/05/2017	Executive Meeting	17

13	12/06/2017	Executive Meeting	18
14	03/07/2017	Executive Meeting	15
15	16/09/2017	Executive Meeting	19
16	02/11/2017	Executive Meeting	10
17	14/12/2017	Executive Meeting	16
18	15/03/2018	Executive Meeting	19
19	26/08/2017	General Body Meeting	115
20	22/03/2018	General Body Meeting	140

EDC/IPR/PATENTS

Whether EDC exists	Yes
No of entrepreneurship programs conducted	17
No of start ups registered	1
Copy right licensed	
Patents applied	
Patents licensed	

Seminars/workshops conducted

Title Of The Program	Sponsor(s)	Date	No of sessions	No of internal participants	No of external participants
Entrepreneurship Awareness Camp	DST-NIMAT Project 2017-18	26/01/2018	3	30	30
Current trends and future prospects in Biotechnology	KSCSTE	23/02/2018	3	118	12

Academic Audit

Audit Report Details

Visit	Semester Type	Audit Date	Principal Approved
First	Odd	03/10/2017	Yes

Second	Odd	30/11/2017	Yes
First	Even	20/02/2018	Yes
Second	Even	02/05/2018	Yes

Monthly Report Details

Month	College Submitted
January	Yes
February	Yes
March	Yes
April	Yes
May	Yes
June	Yes
July	Yes
August	Yes
September	Yes
October	Yes
November	Yes
December	Yes

Projects sanctioned in the reporting year

Title	Project outlay	Principal investigator	Sponsor(s)	Type of project
Voice controlled car parking for physically challenged people.	20000	Mr. Amithrajith P. T.	KSCSTE	Research
Pesticide detection using bio-active paper strip	25000	Mr. Deepak Varghese	KSCSTE	Research

Selection and standardization of algal species combinations from farm lands for oil production	27,000	Dr. V. M. Nishad	KSCSTE	Research
Comparative studies on membrane development from banana and orange peels for industrial effluent treatment	12,000	Dr. M. Balasundaran	KSCSTE	Research
Production Characterization of Serratia-peptidase and its antibacterial study with medically important isolates	7,000	Dr. Madhu, P.C.	KSCSTE	Research
Partial replacement of fine aggregate with copper	8,000	Mr. Akhil A.S.	KSCSTE	Research
Soil stabilization using polypropylene waste fibres	9,000	Ms. Indhu Sidharthan	KSCSTE	Research
Intelligent sun-tracking solar street light	20,000	Mr. Linss T. Alex	KSCSTE	Research
Advanced power tracker	27,000	Ms. Reema Luis	KSCSTE	Research
Design and implementation of glass box ? a novel method to find out the cause of accident using GPS technology	27,000	Ms. Athira P. Nair	KSCSTE	Research

Design and fabrication of rice mill machine	16,000	Mr. Arun M.	KSCSTE	Research
Investigations on mechanical properties and microstructure of five different types of natural fibre-reinforced composites with epoxy resin matrices	15,000	Mr. Vivek , M.S.	KSCSTE	Research
Design and fabrication of Nutmeg shell removing machine	22000	Mr. Manikandan, N.R.	KSCSTE	Research
Pesticide detection using bio-active paper sensor	1,00,000	Mr. Deepak Varghese	KSCSTE	Research

Campus Placement

B.Tech		Number of students placed: 49	
Name of Company	Number of offers	Monthly salary at entry level	
SUTHERLAND GLOBAL SERVICES	12	15000	
CMS IT SERVICES PVT. LTD	6	15000	
VEE TECHNOLOGIES	1	15000	
AMAZON	2	18000	
IDBI FEDERAL LIFE INSURANCE	1	15000	
FINE ARCHITECTS ENGINEERS	7	13500	
STUDY SPRING	15	12500	
APOLLO TYRES	3	15000	

KC KOPAR ENERGY SOLUTIONS PVT LTD	3	15000
QUINTILESIMS	1	20000
M.Tech	Number of students placed: null	
Name of Company	Number of offers	Monthly salary at entry level