



## ANNUAL REPORT

Report Generated On: 16/03/2023

### Basic Details

Reporting Year	2019 - 2020
Institution Name	MOHANDAS COLLEGE OF ENGINEERING AND TECHNOLOGY
Principal Name	Dr.S Sheela

### Governing Board (BoG)

Governing Board in Place	Yes
Number of Members in BOG	5
Number of members from Industry	1
Number of Academicians from outside BOG	1
No of BoG meetings conducted in the reporting year	3

### 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	653
No of National journals/ International journals ( Hard copy) subscribed	110
Digital library facility,If yes, no of e-books added	10804
Digital library facility,If yes, no of e-journals subscribed	1400
No of computers added, if any	50
Software procured, if any	

## Accreditation Details

### Naac Accreditation Details

NAAc Accreditation	Yes
Grade	B+, CGPA 2.65

### NIRF Ranking Details

NIRF Rank	
NIRF Remarks	IR17-ENGG-2-11056

## Other Details

### Other details

Other Ranking Agency Remarks	Details
GHRDC	37th rank among Engineering Colleges

## Principal Details

Full Name	Highest Qualification	Period
Dr.S Sheela	PhD in Civil Engineering( Structural Engineering)	12

## Staff/Faculty Details

No of Head of the Depts	8
No of faculty placed under CAS	0
No of faculty promoted	4

### Faculty details (exclude Principal)

Department	Ph-D holders		M.Tech/PG holders		B.Tech holders		Regular	Adhoc	Contract
	Min	Max	Min	Max	Min	Max			
ME		2		23			25		
CS		2		14			16		
EC		2		14			16		
BT		3		5			8		

CE		1		11			12		
EE		2		12			14		
MCA		0		7			7		
BS				4			4		
Mathem atics		1		6			7		
Humaniti es				2			2		

### Support Staff details

Staff Type	Min	Max
Administrative		26
Library		6
Technical		49

### Student Strength Details

B.Tech							
Branch	I Year	II Year	III Year	IV Year	V Year	Total	
BIOTECHNOLOGY AND BIOCHEMICAL ENGINEERING	21	22	32	38		113	
CIVIL ENGINEERING	35	34	40	55		164	
COMPUTER SCIENCE & ENGINEERING	38	36	24	44		142	
ELECTRICAL AND ELECTRONICS ENGINEERING	11	6	6	19		42	
ELECTRONICS & COMMUNICATION ENGG	12	15	10	35		72	
MECHANICAL ENGINEERING	17	43	76	93		229	
M.Tech							
Branch	I Year	II Year	III Year	IV Year	V Year	Total	
COMPUTER SCIENCE AND ENGINEERING	0	0	0			0	

MCA						
Branch	I Year	II Year	III Year	IV Year	V Year	Total
MASTERS IN COMPUTER APPLICATIONS	3	28	29	23		83

### **Facilities**

No of class rooms	39
No of class rooms with LCD projectors	9
No of tutorial rooms	6

Name of equipment	Lab/Dept	USE	Cost
CRO (40 nos)	ECE	Practical	Rs 358393
Function Generator(19 nos)	ECE	Practical	Rs 133286
Microwave test bench	ECE	Practical	Rs 73102
Digital Multi meter (12 Nos)	ECE	Practical	Rs 20952
DSP Trainer Kit (04nos)	ECE	Practical	Rs 156150
Micro Controller (03 nos)	ECE	Practical	Rs 35438
Arm Kit (04 nos)	ECE	Practical	Rs 117978
UV Visible spectrophotometer	BT BCE	Reseach	Rs.122130

### **Journal publications by faculty or students**

Name of Journal	Author	Faculty/Student	Title of Paper	Issue No/Page No
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International Journal of Engineering and Advanced Technology (IJEAT), ISSN: 2249-8958, Volume-8, Issue- 2C, pp 48-52, December 2018.	Dr.S Sheela	Faculty	Comparative Study on Hysteretic Performance of Semi-Through Connections in CFT Beam - Column Joint	Issue- 2C, pp 48-52
Asian Journal of Civil Engineering	Dr.S Sheela	Faculty	Hysteresis performance of through bolted connections in CFST frame	
Journal of Earthquakes and Structures	Dr.S Sheela	Faculty	Effect of bond and bidirectional bolting on hysteretic performance of through bolt CFST connections	Vol. 19, No. 5 (2020) 315-329
KSCE journal of Civil Engineering	Dr.S Sheela	Faculty	Hysteresis Performance of Through Bolted Connections in Steel Beam to Circular CFST Column	pISSN 1226-7988, eISSN 1976-3808
Materials Research Express,	N Rajesh Prabha	Faculty	Characterization , wear surface roughness and tensile failure analysis of Al7075-TiC-MoS2 hybrid composites using online acoustic emission	Vol.6, Issue 6 (2019) 066544.
Journal of Natural Fibers,.	Sheela E Y	Faculty	Corr. Geotextiles For Faved Roais: A LaJioratory And Field Study Using Non- Plastic Soil As Subgrade	Doi: 10.,1080/15440478 .201, 9.1568344

Journal of Natuaral Fibers	Sheela E Y	Faculty	Long term performance of Rural Roads Reinforced with Coir Geotextile-A Field study	Doi: 10.1080/15440478.2019.1691117,4
International Journal of Applied engineering research	Sheela E Y	Faculty	Impact of Lead on the Geotechnical Properties and adsorption characteristics of Landfill Line	ISSN-26ISSN - 15440966-2795(online)
Journal of Natuaral Fibers	Sheela E Y	Faculty	Durability study of coir Geotextile Embedded in Different Types of Subgrade Soil	ISSN 1544046X,15440478

### **FDP Details**

Name of Faculty	Designation	Name of program	Name of Organizer	Name of Sponsor	Period
Dr P Roopa	Ass.Professor	student Inducion Programe			7 .7 .2019-9.7 .2019
Nishadha S G	Ass.Professor	Two days workshop on Integral education for Teachers			18.7.2019-19.7.2019
Soumya Kumari LK	Ass.Professor	3 days workshop on the recent trends and challenges in cyber security			12.6.2019 - t4.6.2019
layanthi.T	Ass.Professor	National Workshop on Deep Learning INWDL 2020)			13.1.2020 - 15.1.2020

Dr. Usha K.M	Professor	Bioengineering and Solid waste Management	MCET	KTU	11/12/2019 - 13/12/2019
Dr. Roopa P	Associate Professor	Bioengineering and Solid waste Management	MCET	KTU	11/12/2019 - 13/12/2019
Dr. Shalini Nair	Associate Professor	Bioengineering and Solid waste Management	MCET	KTU	11/12/2019 - 13/12/2019
Prof. Sumarani G O	Assistant Professor	Bioengineering and Solid waste Management	MCET	KTU	11/12/2019 - 13/12/2019
Prof. Shiji Jameson	Assistant Professor	Bioengineering and Solid waste Management	MCET	KTU	11/12/2019 - 13/12/2019
Prof. Punnia P	Assistant Professor	Bioengineering and Solid waste Management	MCET	KTU	11/12/2019 - 13/12/2019
Prof. Indu S	Assistant Professor	Bioengineering and Solid waste Management	MCET	KTU	11/12/2019 - 13/12/2019
Prof. Subha Ramachandran	Assistant Professor	One week online International Faculty Development Programme on Recent Trends and Advancements in Information Technology	Federal Institute of Science and Technology, Angamaly	FISAT	27 July 2020 to 1st August 2020
Prof. Sreeja K.	Associate Professor	Three day National Workshop on Deep Learning (NWDL 2020)	Department of Computer Science, University of Kerala, Kariavattom	DCS, KU	13-15 January 2020

Prof. Jayanthi T	Assistant Professor	Three day National Workshop on Deep Learning (NWDL 2020)	Department of Computer Science, University of Kerala, Kariavattom	DCS, KU	13-15 January 2020
Prof. Jayanthi T	Assistant Professor	Two day Faculty Development Programme on MS Excel Essentials for Academics	Department of Commerce and Professional Studies, Rajagiri School of Social Sciences in association with IQAC		20 and 21 November 2020
Prof. Jayanthi T	Assistant Professor	Five day Faculty Development Programme on Advanced Data Structures	Department of Computer Applications, TKM College of Engineering	APJAKTU	12-16 October 2020

### **FDP conducted by the college**

Name of program	Name of Sponsor	Period	No.of Internal Participants	No.of External Participants
Faculty Development Programme on Deep Learning and Neural Networks	KTU	29.06.2020 - 30.07.2020	15	20
Faculty Development Programme on Cyber crime and Digital Forensics	KTU	29.06.2020 - 01.07.2020	15	15
Advances in Non Destructive Testing Methods for Engineering Applications	KTU	22.06.2020 - 26.06.2020	20	15

### **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
MAPATHO N	40	APJKTUNSS	42	15/03/2020
SANNADH ASENA	150	APJKTUNSS	152	29/11/2020
V.S TRAINING	50	APJKTUNSS	53	29/11/2020
NUTRITIO N WEBIANR	100	ICDS	102	29/11/2020
BLOOD DONATION CAMP	53	APJKTUNSS	55	29/11/2020
TRIVANDR UM COLLECT ORATE CORONA WAR ROOM ACTIVITIE S	20	APJKTUNSS	20	29/11/2020
STATE HAIR DONATIO N PROGRAM ME	40	THRISSUR HAIR BANK APJKTUNSS	47	29/11/2020
SANITIZ ER PRODUC TION	19	ETERJA	20	29/11/2020
SAVE KILLIYAR	25	APJKTUNSS	27	29/11/2020
FIT INDIA	80	APJKTUNSS	84	29/11/2020

### Training Programmes Arranged

Name of program	Period	Number of Days	No.of Participants
Socio Economic Survey	08/07/19- 11/07/19	4	39
FLOOD RELIF ACTIVITIES	9/08/2019 13/08/2019	5	40
KUDUMBASHREE PROJECT SURVEY	07/03/2020, 10/03/2020	2	40
MCET NSS ANNUAL 7 DAY CAMP 2020	14.02.2020-20.02.2020	7	100

## Industry/Institute

### Mous with Industry/Organization

Name of Industry	Objective
CAD Desk Trivandrum	To train 43 students of seventh semester CE
MoU-KAL	1.Encouraging students for long term technical activities for developing useful outputs 2.Enabling students to carry out the project works 3. Industrial visit to the students for creating awareness 4. Short period industry familiarization programe for the faculty /students 5. Expert technical lectures by KAL to the institute 6. Derive support of the faulty on RD topics 7. Any other tasks mutually beneficial

## 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 AND BIOCHEMICAL ENGINEERING	8	32	2	15	5	
CIVIL ENGINEERING	8	49	6	21	9	
MECHANICAL ENGINEERING	8	69	2	20	18	
ELECTRICAL AND ELECTRONICS ENGINEERING	8	14	4	6	5	
ELECTRONICS & COMMUNICATION ENGG	8	27	4	12	9	
COMPUTER SCIENCE & ENGINEERING	8	29	1	7	18	
M.Tech						
Branch	Semester	All Pass	GPA above 8.5	GPA 7.5-8.5	Ineligible for promotion	Failed in all theory courses
MCA						
Branch	Semester	All Pass	GPA above 8.5	GPA 7.5-8.5	Ineligible for promotion	Failed in all theory courses

MASTERS IN COMPUTER APPLICATIONS	6	29	3	19		
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### Sports/Games

#### Sports day

Achievement		Mark as I/II/III place			
Name of player/team	Event	University level	State	National	International
Mcet basketball team	basketball	2			
Mcet Netball Women Team	Netball Women	2			

### Co/Extra Curricular Activities

#### Extra curricular activities

Achievement		Mark as I/II/III place			
Name of artist/team	Event	University level	State	National	International
ASWIN G J	GROUP SONG				
ASWIN G J	GANAMELA				
ASWIN G J	LIGHT MUSIC				
FARZANA MANOJ	FASHION SHOW				
SURYA KIRAN	MIME				
NEBIN MUHAMMED	PROLITE				
NEBIN MUHAMMED	BEST ACTOR				
AJAY K NAIR	BEST ACTOR				

### PTA/Alumni Details

#### PTA Meetings

Meeting No	Date	Executive committee/ General body	No of parents attended
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	06/12/2019	executive committee meeting	6
	16/11/2019	general body meeting	112

### **EDC/IPR/PATENTS**

Whether EDC exists	No
No of entrepreneurship programs conducted	70
No of start ups registered	1
Copy right licensed	
Patents applied	
Patents licensed	

### **Conference publications by faculty or students**

#### Conferences conducted

Name of program	Sponsor(s)	Period	No of papers presented	Internal papers	External papers
National Conference on Smart grid Technologies ,Applications Signal Processing	MCET,Department of EC and EEE	18.12.2019 - 20.12.2019			

#### Seminars/workshops conducted

Title Of The Program	Sponsor(s)	Date	No of sessions	No of internal participants	No of external participants
Techsynod19	VNGP TRUST	03/05/2019	1	24	
Bioengineering and Solid waste Management	KTU	14/03/2023	4	20	

Sensors and Data acquisition for static and dynamic applications, TIERRA, Trivandrum	KTU	14/03/2023		30	
IC engines, Automobile proto typing Quad copter, Skyfi Educational Labs Pvt Ltd, Bangalore	KTU	14/03/2023		35	
Introduction to MEP, HVAC, Safety, QA QC, Capitol Professional Academy, Trivandrum		14/03/2023		25	

### Academic Audit

#### Audit Report Details

Visit	Semester Type	Audit Date	Principal Approved
First	Odd	08/11/2019	Yes

#### Monthly Report Details

Month	College Submitted
July	Yes
August	Yes
September	Yes

### Campus Placement

B.Tech		Number of students placed: 53
Name of Company	Number of offers	Monthly salary at entry level
TCS	14	

Quest Global	4	
IBS	2	
IBM	1	
Zifo	1	
Shristi	1	
Jaro Education	1	
Wipro	1	
UST Global	8	
Federal Bank	1	
Hexaware	1	
FACE	2	
Triassic Solutions	1	
Speridian Technologies	2	
Allianz	6	
Assuretech	1	
RMESI	5	
Testhouse India Pvt Ltd.	1	
M.Tech		Number of students placed: null
Name of Company	Number of offers	Monthly salary at entry level
MCA		Number of students placed: 4
Name of Company	Number of offers	Monthly salary at entry level
UST GLOBAL	2	
TATA ELXSI	1	
FACE PREP	1	