



KERALA TECHNOLOGICAL UNIVERSITY
CET Campus, Thiruvananthapuram
Kerala -695016 India

ANNUAL REPORT

Report Generated On: 16/03/2023

Basic Details

Reporting Year	2020 - 2021
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)	

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		22			24		
CS		2		14			16		
BT		3		5			8		1
EC		1		15			16		

EE		2		12			14		
CE		1		11			12		
MCA				7			7		
Mathematics		1		6			7		
Humanities				2			2		
BS				4			4		

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	34	21	20	32		107	
CIVIL ENGINEERING	15	35	34	40		124	
COMPUTER SCIENCE & ENGINEERING	48	38	36	24		146	
ELECTRICAL AND ELECTRONICS ENGINEERING	9	12	6	6		33	
ELECTRONICS & COMMUNICATION ENGG	10	9	15	11		45	
MECHANICAL ENGINEERING	22	17	43	41		123	
M.Tech							
Branch	I Year	II Year	III Year	IV Year	V Year	Total	
ELECTRICAL AND ELECTRONICS ENGINEERING	0	0	0			0	

COMPUTER SCIENCE AND ENGINEERING	1	0	1			2
ELECTRONICS AND COMMUNICATION ENGINEERING	0	0	0			0
MBA						
Branch	I Year	II Year	III Year	IV Year	V Year	Total
MASTERS IN BUSINESS ADMINISTRATION	13	0				13
MCA TWO YEARS						
Branch	I Year	II Year	III Year	IV Year	V Year	Total
MCA TWO YEARS	35	3	28			66

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

Journal publications by faculty or students

Name of Journal	Author	Faculty/Student	Title of Paper	Issue No/Page No
-----------------	--------	-----------------	----------------	------------------

International Journal of Innovative Technology and Exploring Engineering	Mr. Rajesh D	Faculty	Exploration on Cluster Related Energy Proficient Routing in Mobile Wireless Sensor Network	
Wireless Pers Commun	Mr. Rajesh D	Faculty	A Mathematical Model for Energy Efficient Secured CH Clustering Protocol for Mobile Wireless Sensor Network	
J Ambient Intell Human Comput	Mr. Rajesh D	Faculty	Enhancement of network lifetime by fuzzy based secure CH clustered routing protocol for mobile wireless sensor network	
Concurrency Computat Pract Exper	Dr. Rajesh D		Energy competent cluster-based secured CH routing EC2SR protocol for mobile wireless sensor network	

FDP Details

Name of Faculty	Designation	Name of program	Name of Organizer	Name of Sponsor	Period
Prof. Jayanthi T	Assistant Professor	Three day Faculty Development Programme on Research Frontiers in Computer Science	Department of Computer Science and Engineering, Christ College of Engineering, Irinjalakuda	APJAKTU	1st-3rd July 2021
Dr. Rajesh D.	Assistant Professor	One day workshop on Network and System Administration	Department of Computer Applications, FISAT	FISAT	10th May 2021

Dr. Rajesh D.	Assistant Professor	Three day Faculty Development Programme on System Administration and Networking using FOSS Tools	FOSS Cell and College of Engineering, Attingal		18-20 May 2021
Prof. Jeeja G.S.	Assistant Professor	Two day hands on Workshop on NoSQL database MongoDB using Python	Department of MCA, KVM College of Engineering and IT, Cherthala		6th and 7th May 2021
Prof. Jeeja G.S.	Assistant Professor	AICTE-ISTE approved Orientation/Refresher Programme on Advance Technology in Effective Teaching	Mohandas College of Engineering and Technology, Anad, Nedumangad, Kerala	APJAKTU	19.04.2021 to 24.04.2021
Prof. Sreeja K.	Associate Professor	FDP on Deep Learning and Neural Networks	Mohandas College of Engineering and Technology, Anad, Nedumangad, Kerala	APJAKTU	05.07.21 to 09.07.21

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

INTERNATIONAL YOGA DAY	6	we conducted a webinar for the students on the topic of YOGA and LIFE the session was taken by Rahul Radhakrishnan	10	21/06/2021
INTERNATIONAL DAY AGAINST DRUG ABUSE	6	The class had taken by Y Shibu circle inspector Trivandrum region excise department	10	26/06/2021
CELEBRATION OF WOMENS EQUALITY DAY	6	Womens equality day on 26th of august by conducting webinars and other online activities	10	26/08/2021
ROAD SAFETY CLASS	6	The class was taken by Anoop sai T safety training officer HONDA	10	10/03/2020

Industry/Institute

Mous with Industry/Organization

Name of Industry	Objective
MoU - InterCAD Systems	5 days Autocad training
MoU CAD DESK	1 year STAAD.PRO software Training programme

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	19			14	
CIVIL ENGINEERING	8	27			13	
COMPUTER SCIENCE & ENGINEERING	8	11			9	

ELECTRICAL AND ELECTRONICS ENGINEERING	8	5			2	
ELECTRONICS & COMMUNICATION ENGG	8	8			3	
MECHANICAL ENGINEERING	8	52			26	
M.Tech						
Branch	Semester	All Pass	GPA above 8.5	GPA 7.5-8.5	Ineligible for promotion	Failed in all theory courses
MBA						
Branch	Semester	All Pass	GPA above 8.5	GPA 7.5-8.5	Ineligible for promotion	Failed in all theory courses
MCA TWO YEARS						
Branch	Semester	All Pass	GPA above 8.5	GPA 7.5-8.5	Ineligible for promotion	Failed in all theory courses
MCA TWO YEARS	6	24		24		

Sports/Games

Sports day

Achievement		Mark as I/II/III place			
Name of player/team	Event	University level	State	National	International

Mr. Chris Harris	Chris Harris S1 MBA Got Selection to the APJAKTU Mens Basketball Team to participate the South Zone Inter University Basketball Tournament held at Christ College Bangalore on 29th Dec 2021 to 3rd Jan 2022.				
------------------	--	--	--	--	--

Co/Extra Curricular Activities

Extra curricular activities

Achievement		Mark as I/II/III place			
Name of artist/team	Event	University level	State	National	International
Abhijith Nair J	Open championship (Badminton)	2			
Shiyas M	Open championship (Basketball)	2			

EDC/IPR/PATENTS

Whether EDC exists	No
No of entrepreneurship programs conducted	80
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
Sensors and Data acquisition for static and dynamic applications, TIERRA, Trivandrum		09/01/2020	2	30	
IC engines, Automobile proto typing Quad copter, Skyfi Educational Labs Pvt Ltd, Bangalore		09/01/2020	2	35	
Introduction to MEP, HVAC, Safety, QA QC, Capitol Professional Academy, Trivandrum		09/01/2020	2	25	

Academic Audit

Audit Report Details

Visit	Semester Type	Audit Date	Principal Approved
First	Odd	02/11/2020	Yes
Second	Odd	09/02/2021	Yes

Projects sanctioned in the reporting year

Title	Project outlay	Principal investigator	Sponsor(s)	Type of project
-------	----------------	------------------------	------------	-----------------

COMPARATIVE ANALYSIS OF CO DIGESTION OF WASTE GLYCEROL WITH DIFFERENT BIOMASS		Dr. Shalini A Nair	KTU	Research
MATHEMATICAL MODELLING AND SIMULATION OF A FLUIDIZED BED REACTOR FOR DECOMPOSITION OF AMMONIUM NITRATE AND REDUCTION OF NOX EMISSION		Dr. K M Usha	KTU	Research
BIOSENSING STRESS BIOMARKERS		Dr. Shalini A Nair	KTU	Research

Campus Placement

B.Tech		Number of students placed: 25	
Name of Company	Number of offers	Monthly salary at entry level	
ALLIANZ	10		
SPERIDIAN	2		
TATA CONSULTANCY SERVICE	3		
JARO EDUCATION	1		
UST GLOBAL	1		
EVOBI AUTOMATIONS PVT LTD	2		
ACCUBITS	1		
CSS CORP PVT LTD	2		
BYJUS	2		

INFOSYS	1	
M.Tech	Number of students placed: null	
Name of Company	Number of offers	Monthly salary at entry level
MBA	Number of students placed: null	
Name of Company	Number of offers	Monthly salary at entry level
MCA TWO YEARS	Number of students placed: 1	
Name of Company	Number of offers	Monthly salary at entry level
SPERIDIAN	1	