



ANNUAL REPORT

Report Generated On: 16/03/2023

Basic Details

Reporting Year	2021 - 2022
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			2		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	24	32	20	20		96
CIVIL ENGINEERING	21	15	35	34		105
COMPUTER SCIENCE & ENGINEERING	56	48	38	36		178
ELECTRICAL AND ELECTRONICS ENGINEERING	5	10	12	6		33
ELECTRONICS & COMMUNICATION ENGG	18	10	9	15		52
MECHANICAL ENGINEERING	15	22	17	43		97
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	2	1	3			6
ELECTRONICS AND COMMUNICATION ENGINEERING	1	0	1			2
MBA						
Branch	I Year	II Year	III Year	IV Year	V Year	Total
MASTERS IN BUSINESS ADMINISTRATION	25	13				38
MCA TWO YEARS						
Branch	I Year	II Year	III Year	IV Year	V Year	Total
MCA TWO YEARS	48	35	3			86

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

Journal publications by faculty or students

Name of Journal	Author	Faculty/Student	Title of Paper	Issue No/Page No
Asia-Pacific Journal of Chemical Engineering	K. Gireesh Baiju, V.N. Aishwarya, M.S. Akshaya, S.R. Deva Darsan, K. Vignathi, B. Murali, Duraishamy Kumaresan	Faculty	Hydrothermal synthesis, dielectric properties of barium titanate, cobalt doped barium titanate, and their graphene nanoplatelet composites	

Electrochimica Acta	Murali Balu, Kuttappan Gireesh Baiju, Mohan Raj Subramaniam, Duraisamy Kumaresan	Faculty	Bi-layer photoanodes with superior charge collection ability and diffusion length of sub-layer nanostructures for the fabrication of high efficiency dye-sensitized solar cells
Journal of Photovoltaics	D. V. Raj, M. Balu, Gireesh Baiju, G. Nagarajan, M. R. Subramaniam and D. Kumaresan	Faculty	Fabrication of Cost-Effective Reduced Graphene Oxide Based Parallel Grids Embedded Dye-Sensitized Solar Mini-Modules
Chemical Engineering and Processing	K. Gireesh Baiju, B. Murali, R.S. Rao K. Jayanarayanan D. Kumaresan	Faculty	Heat sink assisted elevated temperature sintering process of TiO ₂ on polymer substrates for producing high performance flexible dye-sensitized solar cells
Sola Energy	K. Gireesh Baiju, B.Murali, Duraisamy Kumaresan	Faculty	Ferroelectric barium titanate microspheres with superior light-scattering ability for the performance enhancements of flexible polymer dye sensitized solar cells and photodetectors

Chemical Engineering and Processing	K. Gireesh Baiju, Mahendra N. Nandanwar, K. Jayanarayanan, Duraisamy Kumaresan	Faculty	Numerical modelling and simulation of heat sink assisted thermal sintering of titania film on polymer substrates for the fabrication of high-performance flexible dye sensitized solar cells	
Sustainable Energy Fuels	B. Murali, K. Gireesh Baiju, R. Krishna Prasad, K. Jayanarayanan, Duraisamy Kumaresan	Faculty	Fabrication of high-efficiency PET polymer-based flexible dye-sensitized solar cells and tapes via heat sink-supported thermal sintering of bilayer TiO ₂ photoanodes	
Indian Chemical Engineer	V Aiswarya, Sudev Das, Satish Kumar Aparesh Datta	Faculty	Preparation and characterization of magnetized GO nanoparticle enhanced microencapsulated phase change material for thermal energy storage application	
International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878	Dr. Sajitha A V	Faculty	Network-Conscious VM Placement for Energy Efficiency in Green Data Centres through Dynamic VM Consolidation	

A Heuristic Research of the Designing and Evaluation of Energy Efficiency using Dynamic VM Consolidation in Green Cloud Data Centres	Dr. Sajitha A V	Faculty	International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075	
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FDP Details

Name of Faculty	Designation	Name of program	Name of Organizer	Name of Sponsor	Period
Prof. Deepa D	Assistant Prof.	Recent Future Trends in DSP Techniques and its Industrial Applications	LBS Institute of Technology for Women,		10/01/2022 to 14/01/2022
Prof. Nisha P V	Assistant Prof.	High Performance Computing and Deep Learning for Image and Text Analysis	Mar Baselios College of Engineering and Technology		21/03/2022 to 25/03/2022.
Dr. Rakesh S	Associate Prof.	VLSI Device, Circuits and System Design Tools	School of Electronics Engineering, Vellore Institute of Technology (VITAP), Andhra Pradesh		23/06/2022 to 29/06/2022.
Renjitha G Nair	Assistant Prof.	OPEN SOURCE TOOLS FOR ENGINEERING APPLICATIONS: HANDS ON TRAINING	Mohandas College of Engineering and Technology	APJ Abdul Kalam Technological University	22/08/2022 to 26/08/2022

Nisha P V	Assistant Prof.	OPEN SOURCE TOOLS FOR ENGINEERING APPLICATIONS: HANDS ON TRAINING	Mohandas College of Engineering and Technology	APJ Abdul Kalam Technological University	22/08/2022 to 26/08/2022
Amritha Mary A S	Assistant Prof.	OPEN SOURCE TOOLS FOR ENGINEERING APPLICATIONS: HANDS ON TRAINING	Mohandas College of Engineering and Technology	APJ Abdul Kalam Technological University	22/08/2022 to 26/08/2022
Jayapradha T U	Assistant Prof.	OPEN SOURCE TOOLS FOR ENGINEERING APPLICATIONS: HANDS ON TRAINING	Mohandas College of Engineering and Technology	APJ Abdul Kalam Technological University	22/08/2022 to 26/08/2022
Deepa D	Assistant Prof.	OPEN SOURCE TOOLS FOR ENGINEERING APPLICATIONS: HANDS ON TRAINING	Mohandas College of Engineering and Technology	APJ Abdul Kalam Technological University	22/08/2022 to 26/08/2022
Vani M	Assistant Prof.	OPEN SOURCE TOOLS FOR ENGINEERING APPLICATIONS: HANDS ON TRAINING	Mohandas College of Engineering and Technology	APJ Abdul Kalam Technological University	22/08/2022 to 26/08/2022
Lekshmi V	Assistant Prof.	OPEN SOURCE TOOLS FOR ENGINEERING APPLICATIONS: HANDS ON TRAINING	Mohandas College of Engineering and Technology	APJ Abdul Kalam Technological University	22/08/2022 to 26/08/2022

Sandhya S	Assistant Prof.	OPEN SOURCE TOOLS FOR ENGINEERING APPLICATIONS: HANDS ON TRAINING	Mohandas College of Engineering and Technology	APJ Abdul Kalam Technological University	22/08/2022 to 26/08/2022
Dr. Rakesh S	Assistant Prof.	OPEN SOURCE TOOLS FOR ENGINEERING APPLICATIONS: HANDS ON TRAINING	Mohandas College of Engineering and Technology	APJ Abdul Kalam Technological University	22/08/2022 to 26/08/2022

FDP conducted by the college

Name of program	Name of Sponsor	Period	No.of Internal Participants	No.of External Participants
OPEN SOURCE TOOLS FOR ENGINEERING APPLICATIONS: HANDS ON TRAINING	APJ Abdul Kalam Technological University	22/08/2022 to 26/08/2022	10	

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
TEACHERS DAY CELEBRATION	8	SHARE YOUR MOST MEMORABLE MOMENT WITH YOUR FAVOURITE TEACHER	20	05/09/2020
ENGINEERS DAY CELEBRATION	5	APPLYING ENGINEERING TOWARDS SOCIAL BENEFITS	10	15/09/2020

WORLD OZONE DAY CELEBRATION	5	Unit celebrated world ozone day by conducting webinars and online poster making competition on the topic of world ozone day and we receive many entries and most of them are awesome most of the volunteers along with non volunteers become part of it.	10	16/09/2020
GANDHI JAYANTI CELEBRATION	70	We celebrated Gandhi jayanthi by conducting an online quiz via google meet and aslo conducted a Gandhi Darshan class.70 volunteers were present for the programme	75	02/10/2021
We celebrated Gandhi jayanthi by conducting an online quiz via google meet and aslo conducted a Gandhi Darshan class.70 volunteers were present for the programme	110	The session was taken by Dr. V.Sunilraj ,Psychologist, HR trainer Life CoachTrainer Resource Person in Higher Education Dept.	120	10/10/2020

INTERNATIONAL FOOD DAY	6	Our unit celebrated International food day, 16th October by giving 50 food packets to manacaud orphanage. Kuriyathi Sasi orphanage secretary and Lalitha kumari committee member received food packets from P.O prof. Nidhish B N. Volunteer secretary Gokul p k and Akhil Krishnan were present for the function.	35	16/10/2020
VIGILANCE AWERNESS OATH	5	We conducted an online programme on 28th of October for taking oath (integrity pledge) via Google meet. Oath is delivered by P.O prof. Nidhish B N and introduction class was handled by prof. Harikrishnan. Class lasted for 2 hours.	10	28/10/2020
KERALA PIRAVI DAY	40	We celebrated Kerala Piravi Day by conducting virtual cultural programmes via google meet. 40 volunteers were present for the programme.	45	01/11/2020

NATIONAL CANCER AWARNNESS DAY	75	Our unit had conducted a cancer awarnness class along with importance of eating healthy food .The session was handled by consellor Anina . More than 75 volunteers and students, parents were participated in the webinar.	80	07/11/2020
CONSTITUTION DAY	75	Our unit celebrated constitution day on 26th November . we conducted a quiz competition for the students regarding the constitution of india. More than 75 volunteers were participated in the programme.	80	26/11/2020
WORLD AIDS DAY	50	Our unit had conducted a webinar on 1st December, world aids day on the topic AIDS AND SOCIETY the session was taken by Mr syam s. Many volunteers participate in the session.	55	01/12/2020

NATIONAL POLLUTION CONTROL DAY	85	Unit conducted a power point presentation session on 2nd December on the topic POLLUTION CONTROL AND ITS IMPORTANCE the session was taken by the volunteers and it lasted for 1 hour. More than 85 volunteers participated.	90	02/12/2020
WORLD ENERGY CONSERVATION DAY	45	Our unit celebrated the world energy conservation day on 14th December volunteers done a speech on the above topic via Google meet. Session lasted for 1 hour a more than 45 volunteers were participated.	50	14/12/2020
INTERNATIONAL DAY OF PERSONS WITH DISABILITIES	30	We conducted an awareness class on EMPOWERING PERSONS WITH DISABILITIES AND ENSURING THEIR EQUALITY on December 3rd . The class was conducted by Prof. Akshay. More than 30 volunteers participated on this class.	40	03/12/2020

WORLD HUMAN RIGHTS DAY	40	On world Human rights day, December 10 our college conducted an awareness program via google meet. The importance of human right was discussed and over 40 students participated.	50	10/12/2020
GOOD GOVERNANCE	50	On december 25th good governence day was celebrated. As a part of the day we had conducted an online quiz competition. More than 50 students participated in the quiz competition.	55	25/12/2020
NATIONAL YOUTH DAY	50	We conducted an online programme on 12th of January, that is a debate and discussion session on youth peoples contribution on global issues via Google meet. The session was coordinates by our NSS volunteers. 50 volunteers were present for the programme.	60	12/01/2020

Training Programmes Arranged

Name of program	Period	Number of Days	No.of Participants
MCET NSS ANNUAL 7 DAY CAMP 2021	11.01.2021-17.01.2021	7	100

Industry/Institute

Mous with Industry/Organization

Name of Industry	Objective
MoU - KAMPS	Engineering Laboratory Services such as soil testing , cement and concrete testing(3 hrs)
MoU - InterCAD Systems	Introduction to BIM (Revit, Navisworks and Primavera)(5 days)
MoU - InterCAD Systems	Autocad training and introduction to the microsoft excel(3 days)
MoU- Speridian	Management and soft skill training to students(1 year)
MoU - ACUTRO Technologies	Electric vehicle design and fabrication(7 days)
MoU-Mibiz Cyber Forensics Laboratory	1)To provide support in campus interview and recruitment of B Tech Computer Engineering students 2)To provide a platform for conducting seminars and faculty workshops in college.(4 weeks)

Industry/External Experts Lectures

Name Of Expert	Industry/Institute	Topic	Date	Beneficiaries	Number of Beneficiaries
Dr Madhavan Nampoothri K	1	MICROBIAL PROCESS	14/12/2022	S	90
Mr. Hareesh S V	1	Transmission Technologies in Telecom Network	06/03/2022	S	36
Mr. Krishnanunni	1	Technology Revolution in Industry 5.0.	06/03/2022	S	36

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	8	3	6	11	
CIVIL ENGINEERING	8	13	4	12	22	
COMPUTER SCIENCE & ENGINEERING	8	16	1	9	18	
ELECTRICAL AND ELECTRONICS ENGINEERING	8	4	1	3	2	
ELECTRONICS & COMMUNICATION ENGG	8	4		2	11	
MECHANICAL ENGINEERING	8	11	1	8	31	
M.Tech						
Branch	Seme ster	All Pass	GPA above 8.5	GPA 7.5-8.5	Ineligible for promotion	Failed in all theory courses
MBA						
Branch	Seme ster	All Pass	GPA above 8.5	GPA 7.5-8.5	Ineligible for promotion	Failed in all theory courses
MCA TWO YEARS						
Branch	Seme ster	All Pass	GPA above 8.5	GPA 7.5-8.5	Ineligible for promotion	Failed in all theory courses
MCA TWO YEARS	4	28		20	0	

PTA/Alumni Details

Alumni Association

Meeting No	Date	Executive committee/ General body	No of Alumni attended
15	24/06/2022	General body meeting	206

PTA Meetings

Meeting No	Date	Executive committee/ General body	No of parents attended
17	02/07/2022	general body meeting	36
	05/08/2022	executive committee meeting	9

	14/10/2022	executive committee meeting	9
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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
Electric Vehicle design, Acutro technologies, Thiruvananthapuram ,	KTU	11/04/2022		20	10
Deep Learning and Neural Networks	KTU	05/07/2021		50	59
Open Source Tools for Engineering Applications:Hands on Training	KTU	28/08/2022		15	5

Academic Audit

Audit Report Details

Visit	Semester Type	Audit Date	Principal Approved
First	Even	15/06/2022	Yes

Campus Placement

B.Tech	Number of students placed: 34
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Name of Company	Number of offers	Monthly salary at entry level
TATA CONSULTANCY SERVICE	1	
IBS SOFTWARE	3	
WIPRO	3	
FACE PREP	5	
CSS CORP PVT LTD	2	
UST GLOBAL	7	
SPERIDIAN	1	
BOND INTERIORS	1	
SPERICOMRN TECHNOLOGY PVT LTD	1	
Evobi Automations	4	
Byjus	2	
QWY Technologies	1	
BOND Interiors	1	
Interland	2	
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: 31
Name of Company	Number of offers	Monthly salary at entry level
TATA CONSULTANCY SERVICE	5	
UST GLOBAL	14	
Quest Global	1	
HTC Global	5	

Infosys	1	
NeST	2	
Interland	3	