Mahatma Education Society's
Pillai College of Engineering
Dr. K. M. Vasudevan Pillai Campus, Sector16,
New Panvel, Navi Mumbai (M.S.) 410206

INFORMATION FOR ACADEMIC AND ADMINISTRATIVE AUDIT
OF THE DEPARTMENT
(2019-2020)

1. Name of the Department: Automobile Engineering

2. Year of establishment: 2009-10

3. Programs offered: UG

4. Details of certificate/diploma program introduced in last academic year:

SN	Program code	Program name	Name of the certificate/diploma introduced in last 5 years	Year of introduction	Link the relevant document
1	AE	Automobile Engineering	Engineering Design and Additive Manufacturing using SolidWorks and 3D Printing	2019-20	Report
2	AE	Automobile Engineering	Data Science With R	2019-20	Report
3	AE	Automobile Engineering	Course on Certified Solidworks Associate (CSWA) Certification	2019-20	Report
4	AE	Automobile Engineering	Webinar on Solidworks Tips & Tricks	2019-20	Report
5	AE	Automobile Engineering	Webinar on Geometric Dimensions & Tolerance	2019-20	Report

5. Details of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council:

Sr.No	Name of Faculty	Name of the body in which full time teacher participated	Subject	Level/ Semester	RELEVAN T LINK
1	Dr Divya Padmanabhan	1. Chairman and Member - Question Paper Setting Committee - University of Mumbai 2. Member of Syllabus Revision Committee (R2019C) for Mechanical,Automobile and Mechatronics Branches		UG and PG	-
2	Dr. Basavraj S Talikoti	Member, Question Paper Setting Committee, University of Mumbai		UG	-
3	Mr. Amey Marathe	1.Chairman and Member Question Paper Setting Committee-University of Mumbai 2.Convener of Syllabus Revision Committee for Automobile Branch CBCGS and CBCGS(R2019C)		UG	-
4	Mr. Ameya Nijasure	Member Question Paper Setting Committee-University of Mumbai		UG	-

6. Details of new Courses introduced of the total number of courses across all Programs offered by the department :

Name of the new course introduced in last A.Y.	Program name	Program code	Course code	Year of introduction	Link the relevant document
Automotive NVH		320760210	AEDLO7 031	2019-20	
Automotive Embedded Systems		320760210	AEDLO7 032	2019-20	
Automotive Aerodynamics and Aesthetics	Bachelor of Engineering in Automobile Engineering	320760210	AEDLO7 033	2019-20	Syllabus_AUTO_ CBCGS
Computational Fluid Dynamics*		320760210	AEDLO7 034	2019-20	
Product Lifecycle Management		320760210	ILO7011	2019-20	

Reliability Engineering		320760210	ILO7012	2019-20	
Management Information System		320760210	ILO7013	2019-20	
Design of Experiments		320760210	ILO7014	2019-20	
Operation Research		320760210	ILO7015	2019-20	
Cyber Security and Laws		320760210	ILO7016	2019-20	
Disaster Management and Mitigation Measures		320760210	ILO7017	2019-20	
Energy Audit and Management		320760210	ILO7018	2019-20	
Development Engineering		320760210	ILO7019	2019-20	
Vehicle Safety		320760210	AEC803	2019-20	
Automotive Workshop		320760210	AEL801		
Rapid Prototyping*		320760210	AEDLO8042		
Product Design and Development		320760210	AEDLO8043		
Transport Management and Motor Industry		320760210	AEDLO8044		
Project Management		320760210	ILO8021		
Finance Management		320760210	ILO8022		
Entrepreneurship Development and Management		320760210	ILO8023	2019-20	
Human Resource Management		320760210	ILO8024		
Professional Ethics and CSR		320760210	ILO8025		
Research Methodology		320760210	ILO8026		
IPR and Patenting		320760210	ILO8027		
Digital Business Management		320760210	ILO8028		

		320760210	ILO8029		
Environmental Management					

7. Details of the programs in which Choice Based Credit System (CBCS)/ elective course system has been implemented:

Name of all programs	Whether adopting CBCS course system(yes/no)	Whether adopting elective course system(yes/no)	Program Code	Year of implementation of CBCS/ elective course system	Link the relevant document
Bachelor of Automobile Engineering	Yes	Yes	AE	2016-17	Syllabus_AUTO_CBCGS

8. Details of students enrolled in subject related Certificate/ Diploma programs/ Add-on programs :

Documents here for Certificate/Value Added Courses

Year	Title of the programme	Type of the programme (Certificate/ Diploma programs/ Add-on programs)	Total Number of students enrolled in certificate or diploma or add-on programs	Link to the relevant document
2019-20	Engineering Design and Additive Manufacturing using SolidWorks and 3D Printing	Certificate	1	Link
2019-20	Data Science With R	Certificate	2	Link
2019-20	Course on Certified Solidworks Associate (CSWA) Certification	Certificate	5	Link
2019-20	Webinar on Solidworks Tips & Tricks	Certificate	10	Link
2019-20	Webinar on Geometric Dimensions & Tolerance	Certificate	10	Link

9. Details of value added courses imparting transferable and life skills :

Sr No	Name of the value added courses (with 30 or more contact hours) offered during last five years	Course Code	Year of offering	Year of discontinuation	Number of students enrolled in the year	Number of students completing the course in the year
1	R Programming	DSWRP	2019-20	NA	02	Completed
2	Engineering Design and Additive Manufacturing using SolidWorks and 3D Printing	EDAMS3DP	2019-20	NA	01	Completed
3	LABview	NILV2255	2019-20	NA	04	Postponed
4	Computational Fluid Dynamics	CFD	2019-20	NA	03	ongoing
5	Certified Solidworks Associate (CSWA)	CMSWA	2019-20	NA	05	Completed

10. Details of the students undertaking field projects/ internships:

Field Projects/Internships

Program name	No of students undertaking field projects / internships	Link the relevant document
SE AUTO	05	SE AUTO
TE AUTO	19	TE AUTO
BE AUTO	03	BE AUTO

11. Analysis with action taken report of feedback received from different stakeholders i.e. students, Alumni, Employer and teachers.

SN	Stakeholder	Department	Feedback Received	Action Taken	Link for Document
1	Students	Automobile Engg	133	yes	
2	Teachers	Automobile Engg	11	yes	Upload here_Stakeholders Feedback
3	Alumni	Automobile Engg	7	yes	
4	Employers	Automobile Engg	3		

12. Number of students from other States and Countries admitted in the department:

Year of enrolment	Number of students enrolled from other states	Number of students enrolled from other countries	Link of the relevant document
19-20	01	NIL	Students Admission

13. Total number of students admitted in the department:

Year	Program name	Program Code	Total Number of Seats Sanctioned	Total Number of students admitted
2019-20	Bachelor in Automobile Engineering	AE	60	33

https://drive.google.com/open?id=1LZCLr4mKp2fzIZVjgA1YaRmlMnP57RQmission

14. Number of seats filled against seats reserved for various categories (including Divyangjan) in the department:

29 % of total sanctioned seats	Year	Number of seats earmarked for reserved category as per GOI or State Government rule			Number of students admitted from the reserved category				
		SC	ST	OBC	SC	ST	OBC	Gen	Others
	19-20	-	-	-	03	-	04		

Name of the student enrolled under Differently abled Category	Gender	UDID Card Number	Type of Disability	Percentage of Disability	Program enrolled	Year of Enrolment
None	-	-	-	-	-	-

15. Special programmes conducted by the department for advanced learners and slow learners:
    Advance and Slow learners

PCE has well defined policies and procedures to allow for the identification of different types of learners. Faculty at PCE are trained to identify and support students with varying learning capabilities. At the First year level, students are identified into different academic categories based on their performance in the first internal assessment test. The weaker students thus identified are given more attention and it is ensured that they are taught to do well enough to perform at least to a level of passing in the university examinations. Course-in-charge and class counselors during the teaching learning process identify the slow learners and advanced

learners by observing their performance in different activities as well as the results of various assessment processes during the semester. Mentor Mentee scheme, wherein a small group of students is allotted to one faculty mentor, helps to monitor the progress and difficulties faced by the students. Periodic Parent Teacher meetings are organised where faculty members, and mentors interact with the parents of all learners and update them about the performance of their ward. It helps to enhance the performance of slow learners and groom advanced learners. Remedial classes are organized for the students who are not good performers. Additional support is offered through examination oriented coaching and well formulated question banks as well as notes prepared by faculty. When the divisions are formed, the batch of students with least scores are identified and a scrupulous plan to ensure more practice among these students during the practical sessions is also made. Senior teachers are usually allotted to such batches to ensure good performance. Study camp sessions are conducted to ensure that the weakest of the students are made to practise a certain minimum number of problems/topics from the curriculum to ensure their success in examinations and thus improve their chances of placement in the higher semesters.

Special counselling and extra classes are conducted for the students who have failed in any subject. Extra lab sessions, additional tutorial hours, links to e-books and subject related video lectures are some of the other initiatives for slow learners. Extra time for slow learners with dyslexia is given during the university examinations. Students having good academic records are encouraged to achieve higher ranks in university exams, and to take exams like GATE, GRE, TOEFL, IELTS, CAT etc. Teachers conduct extra sessions for students to prepare them for the GATE examination. Students having orientation towards research are motivated to present their work at conferences and competitions such as Avishkar, and this has helped us in winning awards at the university and also the state level. These students are also encouraged to become part of the student council and form other student groups. Student activity fund has also been initiated to ensure that students have funds to travel to different parts of the country to participate in various competitions. Due to our efforts, multiple student teams have won 1st place in the AICTE hackathon in 2019 and well as in 2018.

But this year unfortunately, the lockdown due to corona began, specifically for schools and colleges, from 16 March 2020, and for the entire nation--from 24 March 2020. So the department was not able to conduct remedial classes and the faculty members were not able to use the lightboard studio facility to full extent for the even semester of the year. But this pandemic did not affect the regular conduct of pending classes for the term. All the faculty members developed e-content in the form of notes, self-recorded videos, and some undertook live lectures through Zoom and Meet softwares too, which have been duly recorded for future reference. Faculty members also conducted online quizzes for students. Our Institute also made available the platform for free COURSERA courses, and many students as well as faculty members took good advantage of this, with many successfully completing multiple courses with excellent scores. The total number of free licenses offered to the faculty and students is in the tune of about 5 thousand, and they are given time to enroll and complete the free courses till July 31, 2020

16. Student- Full time teacher ratio:

Year	Number of students enrolled in the department(UG)	Number of students enrolled in the department (PG)	Number of full time teachers in the department (UG)	Number of full time teachers in the department (PG)	Number of teachers teaching both UG and PG courses	STR
2019-20	224	00	13	00	01	17.2

17. Number of teaching posts sanctioned, filled and vacant.

Designation	Sanctioned	Filled
Professor	1	1
Associate Professor	1	2
Assistant Professor	10	10
Total	12	13

18. Number of full time teachers with Ph.D. degree:

Year	Total No. Full time teachers	No. of teachers with PhD
2019-20	13	02

19. Details of full time teachers who received awards, recognition, fellowship at State, National, International level from government, recognized bodies:

Year	No. Of Full time Teachers	No. of teachers received awards/recognition/fellowship at State/National/International level	Relevant link
2019-20	13	**Session Chair**-International Conference on Recent Advances on Materials and Manufacturing 2019,Belagavi,India	Dr. Divya Padmanabhan https://docs.google.com/document/d/1KGcA-X8ZPyjX12BFPWHNb64DJ7VlZb1yOG9iJDl57ZU/edit
2019-20		Unnat Bharat Village Survey Activity by Ministry of HRD , Government of India	Prof. Krishamohan Menon Certificate

20. Number of full time teachers from other States against sanctioned posts:

Year	No. Of Full time Teachers	No. of teachers from other states
2019-20	13	01

21. Details of examination related grievances received if any.

   NONE

22. Adherence to the academic calendar:

   YES

23. Attainment of Programme outcomes, Programme specific outcomes and course outcomes:

   Will be provided in a separate annexure

24. Result Analysis:

Program Code	Program Name	Level/Semester	Number of students appeared in the exam	Number of students passed in the exam
AEIII	Bachelor in Automobile Engineering	III	59	12
AEIV		IV	After May 2020 Result	
AEV		V	63	31
AEVI		VI	After May 2020 Result	
AEVII		VII	68	58
AEVIII		VIII	After May 2020 Result	

25. Total Grant received for research projects sponsored by the government and the non-government sources such as industry, corporate houses, international bodies, endowments, Chairs

SN	Name of the Project/ Endowments, Chairs	Name of the Principal Investigator	Department of Principal Investigator	Year of Award	Funds provided	Duration of the project	Name of the Funding Agency	Type (Government/non-Government)	Relevant Document link
1	Development, Synthesis and Characterization of conducting polymer(Polyaniline and Poly EDOT) composites	Prof. Amey Nijasure(CO PI)	Mechanical	19-20	45000/-	1 Year	University of Mumbai	Government	Grants and Proposals

| 2 | Development of Twin screw extruder for 3D printable composite filament. | Prof. Geeta Karmarkar(CO-PI) | Mechanical | 19-20 | 50000/- | 1 Year | University of Mumbai | Governme nt | |

26. Details of the teachers recognized as research guides:

S N	Name of teachers recognized as research guides	PG / PhD Recognition	Departme nt	Year of Recognition
1	Dr Divya Padmanabhan	PG and PhD	AUTO	2014 , 2018

27. Details of workshops/ seminars conducted on Intellectual Property Rights (IPR) and Industry- Academia Innovative practices:
    Workshops/Seminars Conducted

S N	Year	Name of the workshop/ seminar	Date From – To	Activity (IPR/Industry-AcademiaInnov ative practices)	Link
1	2019-20	2 Days Workshop on "Application Programming Interface (API) using Autodesk Fusion 360 Software"	26th - 27th August 2019	Academia Innovative practices	**Report**
2	2019-20	One Day Seminar on "IPR"	17th February 2020	IPR	**Report**
3	2019-20	Seminar on "Opportunities in Electric and hybrid vehicles"	4th March 2020	Industry-Academia Innovative practice	**Report**
4	2019-20	One Week FDP on R Programming	29th April to 3rd May	Industry-Academia Innovative practices	Report
5	2019-20	Application of Reliability Practices to Industry	20th August , 2019	Industry-Academia Innovative practices	Report

28. Details of incentives to teachers who receive state, national and international recognition/ awards:

Sr. No.	Name of the Awardee with contact details	Name of the Award	Name of the Awarding Agency
01	Prof. Amey Marathe	Design Judge at Formula Bharat Event	Formula Bharat
02	Dr.Divya Padmanabhan	Session Chair at International Conference ICRAMM2019	ICRAMM2019
03	Prof. Ameya Nijasure	Elite Grade	NPTEL online course on Patent drafting for beginners(IIT Madras) And Manufacturing Automation(IIT Kanpur)

29. Details of research papers published by teachers in the Journals notified on UGC website:

SN	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISBN/ ISSN number	Link of the recognition in UGC enlistment of the Journal
1.	" Simulation of Performance of Boiler System for a bagasse unit using LabVIEW"	Dr.Basavraj S Talikoti	Automobile Engg	Springer, in book series "Lecture Notes in Mechanical Engineering", Springer, , Indexed by Scopus. January 2020. (In Press)	2020	ISSN: 2195-4356	--
2	" Simulation of turbine system of a bagasse unit for power efficiency using LabVIEW"	Dr.Basavraj S Talikoti	Automobile Engg	Springer, in book series "Intelligent computing systems", Springer, Indexed by Scopus. (Accepted).	2020		--

30. Details of books and chapters in edited volumes/books published and papers in national/ international conference:
    Publications/Books/Patents

Sl. No.	Name of Teacher	Title of the book/ chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / international	Year of publication	ISBN/ ISSN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher	Relevant link
1	Prof.Ameya Nijasure	NA	Drone mapping of landfill sites in Western Maharashtra		National Symposium on innovation in Geospatial Technology for Sustainable Development with special emphasis on NER Shillong,November 20-22,2019(Accepted)	National	2019-20		PCE, New Panvel		
2	Prof. Amey Marathe	NA	Design and Analysis of Magneto-Rheological (MR) Damper	IEEE Technically Co-Sponsored 3rd Biennial International Conference on Nascent Technologies in Engineering,ICNTE-2019,FCRIT, Vashi	IEEE Technically Co-Sponsored 3rd Biennial International Conference on Nascent Technologies in Engineering,ICNTE-2019,FCRIT, Vashi	International	2019-20		PCE, New Panvel	IEEE Xplore	Published
3	Divya Padmanabhan		Development of Composite		First International Conference on Recent	International	2019-20		PCE, New Panvel		Published

		Membrane for Desalination		Advances in Materials and Manufacturing 2019						
4	Divya Padmanabhan	Energy efficient cooling through radiation		First International Conference on Recent Advances in Materials and Manufacturing 2019	International	2019-20		PCE, New Panvel		Published

31. Details of the extension activities undertaken by the department in sensitizing students to social issues and holistic development:
Extension Activities

Sr No	Name of Activity	Start Date	Organiser	No of Students Participated	No of Faculty Participated	Report Available
1	K-12 at Nagarpalika School , Takka, Panvel	1 Day , 06/03/2020	PCE, ISHRAE	17	1	Yes
2	Science mela	1 Day , 25/1/2020	PCE, ISHRAE	5	_____	Yes
3	Visit by MSAS Students	8 Aug 2019	PCE	50	35	Yes
4	Stand with Western Maharashtra-Flood Relief	12 Aug 2019	PCE	60	50	Yes
5	Blood Donation Camp	20 Aug 2019	PCE	60	50	Yes
6	K12 visit to Z.P. School, Vichumbe	14 Sep 2019	ISHRAE	20	___	Yes
7	K12 visit to Shree Santha Saibaba	14 Sep 2019	ISHRAE	26	_____	Yes

	Vidyalay					
8	Plastic Awareness Drive	5 Oct 2019	NSS - Prof. Bhagwan More	500	20	Yes
9	Walkathon for Corruption-free India – Vigilance Awareness Week	15 Oct 2019	PCE	150	8	Link
10	Jumble Sale	16 Oct 2019	PCE	150	50	Yes
11	K12 Activity at Zilla Parishad School, Vichumbe	19 Oct 2019	ISHRAE	10	___	Yes
12	Tree Plantation and River Clean Drive	11th January 2020	Bhagwan More	150	5	Yes
13	Unnat Bharat Abhiyan activity - 5 Village Survey	18th January 2020	PCE	3	__	Yes
14	Uber Rang	25th January 2020	MES	20	02	Yes
15	Community Service Day	25th January 2020	MES	120	50	Yes
16	K12 Visit at Panvel Mahanagarpalika School	6 Mar 2020	ISHRAE	17	___	Yes
17	Two wheels One Life Campaign	16th June	Dept	26	2	Yes

32. Total number of awards and recognition received for extension activities from Government/ recognized bodies:

SN	Name of the activity	Name of the Award/ recognition	Name of the Awarding government/ recognised bodies	Year of award	Name of the Faculty	Proof
1	Social Responsibility-making and distributing face shields	Contributed during the Lockdown of April 2020	Police personnel-Thane District	2020	Prof.Amey Nijasure	
2.	Unnat Bharat Abhiyaan	Unnat Bharat Village Survey Activity	Ministry of HRD , Government of India	2020	Prof.Krishna mohan Menon	Yes

33. Details of extension and outreach Programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc.:

 Extension Activities

SN	Name of the activity	Organising unit/ agency/ collaborating agency	Year of the activity	Number of teachers participated in such activities	Number of students participated in such activities
1	Plastic Awareness Drive	NSS-PCE	5 Oct 2019	30	500
2	'Jumble Sale' MES Donation Charity Event	NSS-PCE	16 Oct 2019	20	300
3	Mini Marathon 'Run for Clean City'	NSS-PCE	14 Dec 2019	02	50
4	Tree Plantation and River Clean Drive	NSS-PCE	11th January 2020	5	150

34. Total number of Students participating in extension activities with Government Organization, Non-Government Organizations and Programmes such as Swachh Bharat, AIDs awareness, Gender issue etc.

Extension Activities

S N	Name of the activity	Organising unit/ agency/ collaborating agency	Name of the scheme	Year of the activity	Number of students participated in such activities	Proof
1	Village / Villagers Survey Activity	Ministry of Human Resource Development, Govt. of India	Unnat Bharat Abhiyan	18th January 2020	3	Yes
2	Walkathon for Corruption -free India	ONGC &PCE	Vigilance Awareness Week	15 Oct 2019	150	Yes

35. Details of linkages for faculty exchange, student exchange, internship, field trip, on-the- job training, research etc:

Field Projects/Internships

Sl. No.	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Year of commencement	Duration (From-To)	Nature of linkage
1	Internship	Sharayu Honda Service Centre	2019-20	12/12/19 to 24/12/19	https://drive.google.com/file/d/1AOpt5Y64-_tXkbvpIIopiTzn87nOSWQJ/view?usp=drivesdk
2	Internship	Royal Enfield	2019-20	01/01/2020 to 10/01/2020	https://drive.google.com/file/d/1-tfgotYb6oA-NBQEaXGythEc2Za6QPYy/view?usp=drivesdk
3	Internship	Chekavars Auto care, Mulund, Mumbai - 52	2019-20	26/12/19 to 31 /01/ 2020	https://drive.google.com/open?id=1CpyFWw61U3Yczj

					Y3nsW22sPT a49VXx5U
4	Internship	Tinka Tinka Foundation, New Delhi	2020	23/3/20 to 23/4/20	https://drive.g oogle.com/file /d/1AVuUl- _oF0jT2rnVN IiFlyEbItk42b Vx/view?usp= drivesdk
5	Internship	Boston Consulting Group (BCG)	2020	2/04/2020 to 2/5/2020	https://drive.g oogle.com/file /d/1AYgHQU z77- AEr9rYWh4 OnaNeBqJH0 Bvr/view?usp =drivesdk
6	Internship	Navi Mumbai Municipal Corporation, Turbhe, Navi Mumbai - 400705	2019	1/12/19 to 3/12/ 19	https://drive.g oogle.com/op en?id=1re34A JVr_lPMdvm CghyClXryP CYnqVCn
7	Internship	Jawaharlal Nehru Port Trust (JNPT)	2019	2/1/19 to 31/12/19	https://drive.g oogle.com/file /d/1AOpt5Y6 4- _tXkbvpIIopi Tzn87nOSW QJ/view?usp= drivesdk
8	Industrial visit	Cipla	2019-20	22-2-2020	Yes
9	Industrial visit	Zeco Aircon	2019-20	25-1-2020	Yes
10	Industrial visit	Dry All	2019-20	12-10-2019	Yes
11	Industrial visit	Advantek	2019-20	14-9-2019	Yes
12	Industrial visit	JNPT	2019-20	26/09/2 019	Yes

			2019-20		
13	Industrial visit	Amphtronics		22/02/2020	Yes
14	Industrial visit	Alpha chemical	2019-20	22/02/2020	Yes
15	Industrial visit	Akhil products	2019-20	22/02/2020	Yes
16	Industrial visit	Grand precicast	2019-20	22/02/2020	Yes
17	Industrial visit	ARAI	2019-20	12/10/2019	Yes

36. Details of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. :
   MOUs

Sl. No.	Organisation with which MoU is signed	Name of the institution/ industry/ corporate house	Year of Signing MoU	Duration	List the actual activities under each MoU year wise	Number of students/teachers participated under MoUs
1.	MEAI Skill tech centre	PCE, New Panvel	2020		Technical Training & workshop	------------------
02	Indian institute of Packaging	IIP,Ministry of Commerce,Govt .of India	2018-19	03 years Extendable upto 5 years	Summer internship to 4-5 students every year	4 to 5 students
03	Biocrux	BIOCRUX INDIA PVT. LTD	2018-19	03 years Extendable upto 5 years	Recognition for Institute for conducting R&D ,Packaging and waste management like Automation,functionality ,IOT etc	16 to 20 students (workshop)

04	Indian Centre for plastics in the Environment	ICPE	2018-19	03 years	ConductingR & D in the field of Plastic packaging and Information Exchange	Internship to 2- 3 students of Third year
05	Larsen & Toubro	PCE, New Panvel	2019-20		2-3 Industrial Project every year	3 to 4 Teachers
06	ONGC	PCE, New Panvel	2019-20			summer internship of 1 - 2 student

37. Details of departmental infrastructural & other facilities:
    a)Departmental Library (books, journals etc.)   :
    c) Computers and Internet facilities for staff   :   Yes, 30 PC
    d) Total number of class rooms   : 03
    e) Class rooms with ICT facility   : 03
    f) Students' laboratory   : 10
    g)   Research laboratories   : 01
    h) Seminar Hall   : 01
    i) Smart class room   : 01
    j) Any other facility LCDs,   : 01

Infrastructure
Departmental Library:
https://drive.google.com/file/d/1Gogj9syu0CUZ3jPE_7EU95hXDfMnPW8l/view?usp=sharing
Library :
https://drive.google.com/drive/folders/1Kola29wmrCD1ncyjSqJaIAFQODYuNz3C?usp=sharing

Classrooms and Labs:
https://drive.google.com/drive/folders/1oj6ie7EDHQ8AV9G0DjZ_iotXBREo3FGZ?usp=sharing
Photos:
https://drive.google.com/drive/folders/11MAWN6CYvjpg4YFtRMtc0L6cIlN8PdKB?usp=sharing

38. Student – Computer ratio:

Total Number of students	Number of computers for students in working condition	Student Computer Ratio
224	24	9.33

39. Details of e-content developed by the faculty in the department:

Name of the e-content development facilities	Provide link to videos of the media centre and recording facility
e-Learning Studio: Lightboard Screencasting Pentip board recording Overhead video recording	https://drive.google.com/file/d/1d25B2-CoIZuNhhEFeQmUTc8fk66eS0mC/view?usp=sharing

40. Details of maintenance of laboratory and classrooms:

Maintenance of all laboratories are done by the laboratory assistants in consultation with the laboratory incharge. Maintenance activities are recorded in logbook and kept in every laboratory.

41. Number of students benefited by scholarships and freeships provided by the Government:
 Freeships/Scholarships
Link to document-
https://docs.google.com/spreadsheets/d/1J4BUba1v5Hee9Txyrk_Db2C0IbbjoN2BO4iCw_XU-CA/edit?usp=sharing

Name of the scheme	Number of students benefited by government scheme (Scholarships)	Number of students benefited by government scheme(freeships)	State Minority Scholarship	Merit Cum-Means Scholarship
OBC	11	18	-	
SC	1	4	-	
VJNT	2	3	-	
EBC	-	-	58	

42. Total number of students benefited by scholarships, freeships, etc provided by the institution besides government schemes:
https://drive.google.com/file/d/1csV1Gb1_b2xrhRh3jD1b0eAtmR1i2rC6/view?usp=sharing

Name of the scheme with contact information	Number of students benefited by non-government schemes
Institute level scholarship	40

43. Number of students enrolled capability enhancement and development scheme:
https://drive.google.com/file/d/13cHq1NY8IcGDm2T8oGbZd4xg7LmND9oO/view?usp=sharinguments here_Student Development Scheme

Name of the capability enhancement scheme	Year of implementation	Number of students enrolled	Name of the agencies involved with contact details

Design of Cars	2019-20	44	Hyperion, SPARK, Vanguard Car teams
Bridge courses	2019-20	105	Coursera, TCS, Spoken Tutorial, Udemy

44. Number of students in the department benefitted by guidance for competitive examinations and career counseling offered by the institution:

Student Development Scheme

Strength of BE Automobile class of 2019-20 was 69.

Year	Name of the scheme	Number of students benefited /attended/participated by career counseling/Competitive exam activities
2019-20	Campus Credential webinar	69
2019-20	Campus to Corporate	69
2019-20	CV writing Workshop (Online mode)	69
2019-20	Placement awareness Talk 1 (Online mode)	69
2019-20	Campus placement types Talk 2 (Online mode)	69
2019-20	Placement awareness Talk 3 (Online mode)	69
2019-20	Expert talk by Indian navy	69
2019-20	How to register a company	69
2019-20	Seminar on Ethical Hacking	69
2019-20	TCS Expert Talk on SAP	69
2019-20	GATE Expert Talk	69

2019-20	INSPIRIA	69

45. Number of students attending Vocational Education and Training(VET)

Number of students attending VET	Total number of students
Engineering Design and Additive Manufacturing using SolidWorks and 3D Printing	01
Data Science With R	02
Solidworks Mechanical Design - Associate Level Certification Course	05

46. Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee:

No. of grievances appealed	No. of grievances redressed	Average time for grievance redressal in number of days
None	NA	NA

47. Number of outgoing students placed along with name of the employer with contact details:
Placements and Higher Education

Number of students placed	Name of the employer with contact details	Package received	Program graduated from
1.Ashwin Narayan Kutty	Capgemini	3.80LPA	Automobile
2. Jason Abraham	Byju's	10.00LPA	Automobile
3.Sushma Tiwari	DHL	4 LPA	Automobile
4.Pranay Dhoke	Eleation	2.4 LPA	Automobile
5.Suyash Patil	Eleation	2.4 LPA	Automobile

48. Details of the students going for higher education:
Placements and Higher Education

Number of students enrolling into higher education	Program graduated from	Department graduated from	Name of institution joined	Name of program admitted to

06	Bachelor Of Engineering	Automobile	James Cook University, Australia, University of Texas Arlington, Oxford Brookes University, Nettur Technical Training Foundation Banglore, Coventry University UK, Jamescook University Australia	Masters of Engineering.

49. Number of students appearing and qualifying in state/ national/ international level examinations (eg: NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations):
[Placements and Higher Education](#)

Number of students selected/ qualifying									State government examination
Registration /Roll No for the exam	NET	SLET	GATE	GMAT	CAT	GRE	TOEFL/IELTS	Civil Services	
9973003788									Snehal karbhari
9200556					Anuj Anand				
ME20S12052 109			Kutty Ashwin n						

Number of students appearing									State government examination
Registration /Roll No for the exam	NET	SLET	GATE	GMAT	CAT	GRE	TOEFL/IELTS	Civil Services	
			8		1				6

50. Number of awards/medals for outstanding performance in sports/cultural activities at national / international level:

Name of the award/ medal	National/ International	Sports/ Cultural	Name of the Student	Number of students	Adhaar Number/Admission Number
Third Place in Mumbai University Intercollegiate Handball Tournament (2019-20)	University	Sports	Ameet Awari Ashwin Kutty Snehal Karbhari Raman Bonde	4	2016PE0299 2016PE0310 2017PE0020 2016PE0248

51. Details of the student council and the departmental student chapters:
   Student Council/Chapters

ISHRAE Committee List(19-20)

Name	Year	Designation
Akshay Gangadharan	B.E.	President
Pranesh Chodankar	T.E.	President Elect
Aditya Sonavane	B.E.	Secretary
Samyukta Sinha	B.E.	Treasure
Manish Deshpande	T.E.	Joint Secretary
Aayush Raghvan	B.E.	K 12 IV Chair
Chandini Suresh	B.E.	Membership Chair and Publicity head
Sanket Aradhye	B.E.	Program Chair
Aaditya Barde	B.E.	Joint Publicity head and BE Representative
Ojas Gawde	T.E.	Creative and Graphics
Nikhil Nair	T.E.	Creative and Graphics
Shabrish Nair	T.E.	T. E. Representative
Aishwarya Patil	T.E.	T. E. Representative
Chinmay Dorlikar	S.E.	S.E. Representative
Harshwardhan Ghatge	S.E.	S.E. Representative

Vyankatesh Joshi	S.E.	S.E. Representative

AESA MESA Committee list (2019-20)

President	Mr. Prajwal Poojary
Vice-President	Ms. Sakshi Rai
Secretary	Mr. Sujit Gate
Joint –Secretary	Mr. Shubham Khodpe
Treasurer	Mr. Dinesh Patil
Joint Treasurer	Mr. Umarvysya Anujkumar
Event manager	Ms. Pooja Sanas
Joint event Manager	Mr. Gokul Nair and Mr. Atharv Thombare
Graphic Designer	Mr. Aniket Dhanwade Mr. Shridhar Sahu
Photographer	Mr. Kedar Mule and Mr. Ratikesh Satale
BE Mech A Representative	Mr. Ashwin Suresh
BE Mech B Representative	Mr. Suraj Borase
TE Mech A Representative	Mr. Sumit Memane
TE Mech B Representative	Mr. Chetan Nayak
TE Auto Representative	Mr. John James
SE Mech A Representative	Mr. Ashwin Karuvath
SE Mech B Representative	Mr. Mayur Patil
SE Auto Representative	Ms. Gauri Sonavane

52. Number of sports and cultural activities/competitions organized at the institution level:
    Institute level activities

Sr. No.	Name of the activity	Event Date
1	International Yoga Day	21,22,23 June 2019
2	Freshers Day	20-Sep-19
3	Uber Rang	25-Jan-20

4	Community Service Day	25-Jan-20
5	Republic Day	26-Jan-20
Cultural Events in Alegria		
1	Photography	4th Feb-8th Feb 2020
2	Dreamfluencer	4th Feb-8th Feb 2020
3	Fastest Finger First	4th Feb-8th Feb 2020
4	Fashion Show	4th Feb-8th Feb 2020
5	Face of Alegria	4th Feb-8th Feb 2020
6	Beat boxing	4th Feb-8th Feb 2020
7	Rapping	4th Feb-8th Feb 2020
8	Stand Up	4th Feb-8th Feb 2020
9	Freestyle solo	4th Feb-8th Feb 2020
10	Freestyle Dance	4th Feb-8th Feb 2020
11	Music Band	4th Feb-8th Feb 2020
12	Best Manager	4th Feb-8th Feb 2020
13	Live mock stock	4th Feb-8th Feb 2020
14	ELOCUTION	4th Feb-8th Feb 2020
15	POETRY WRITING	4th Feb-8th Feb 2020
16	Hackathon	4th Feb-8th Feb 2020
17	Typing Competition	4th Feb-8th Feb 2020
18	UI/UX Competition	4th Feb-8th Feb 2020
19	CPU Assembly	4th Feb-8th Feb 2020
20	Coding Competition	4th Feb-8th Feb 2020
21	Technical Paper Presentation	4th Feb-8th Feb 2020
22	Quiz	4th Feb-8th Feb 2020
23	Word Box	4th Feb-8th Feb 2020
24	Creative Writing	4th Feb-8th Feb 2020
25	Sketching	4th Feb-8th Feb 2020
26	Canvas Painting	4th Feb-8th Feb 2020
27	Cartooning	4th Feb-8th Feb 2020
28	Mehendi	4th Feb-8th Feb 2020
29	Nail Art	4th Feb-8th Feb 2020
30	Tattoo Making	4th Feb-8th Feb 2020
31	Logo Designing	4th Feb-8th Feb 2020
32	Rangoli	4th Feb-8th Feb 2020
33	Pocket tanks	4th Feb-8th Feb 2020
34	Mr and Ms Alegria	4th Feb-8th Feb 2020
35	Food-a-thon	4th Feb-8th Feb 2020
36	Classical Solo	4th Feb-8th Feb 2020
37	Mono Acting	4th Feb-8th Feb 2020
38	PTV Rowdies	4th Feb-8th Feb 2020

39	Short Film	4th Feb-8th Feb 2020
40	Duet Dance	4th Feb-8th Feb 2020
41	Alegrian Hustle	4th Feb-8th Feb 2020
42	Shark Tank	4th Feb-8th Feb 2020
43	Duopoly	4th Feb-8th Feb 2020
44	Biz-Quiz	4th Feb-8th Feb 2020
45	Open mic	4th Feb-8th Feb 2020
46	Solo Singing	4th Feb-8th Feb 2020
47	Skit	4th Feb-8th Feb 2020
Sports Activity During Alegria		
1	Futsal	4th Feb-8th Feb 2020
2	Tug Of War	4th Feb-8th Feb 2020
3	Badminton (G)	4th Feb-8th Feb 2020
4	Badminton (B)	4th Feb-8th Feb 2020
5	Chess	4th Feb-8th Feb 2020
6	Blitz Chess	4th Feb-8th Feb 2020
7	Carrom (S)	4th Feb-8th Feb 2020
8	Carrom (D)	4th Feb-8th Feb 2020
9	60m Sprint	4th Feb-8th Feb 2020
10	Neo Shootout	4th Feb-8th Feb 2020
11	Paint ball	4th Feb-8th Feb 2020
12	Fifa 20	4th Feb-8th Feb 2020
13	Ludo king	4th Feb-8th Feb 2020
14	Pubg mobile	4th Feb-8th Feb 2020
15	CSGO	4th Feb-8th Feb 2020
16	Box Cricket	4th Feb-8th Feb 2020
17	Rifle Shooting	4th Feb-8th Feb 2020
18	Chess	4th Feb-8th Feb 2020
19	Table Tennis	4th Feb-8th Feb 2020
20	Neo Cricket	4th Feb-8th Feb 2020
21	Kabaddi	4th Feb-8th Feb 2020
22	Basketball	4th Feb-8th Feb 2020
23	Devil Circuit	4th Feb-8th Feb 2020
24	Neo Basketball	4th Feb-8th Feb 2020
25	Volley Ball	4th Feb-8th Feb 2020
26	Shotput (G)	4th Feb-8th Feb 2020
27	Shotput (B)	4th Feb-8th Feb 2020
28	Oculus VR Fruit Ninja	4th Feb-8th Feb 2020
29	Cod Mobile	4th Feb-8th Feb 2020
30	The War of DJs	4th Feb-8th Feb 2020
31	NFSMW	4th Feb-8th Feb 2020
32	Oculus VR Fruit Ninja	4th Feb-8th Feb 2020

33	Fitness Physique	4th Feb-8th Feb 2020
34	Treasure Hunt	4th Feb-8th Feb 2020
OTHER EVENTS		
1	Rose Day	20-Feb-20
2	Garba night	20-Feb-20
3	Saree day	20-Feb-20
4	Traditional Day	20-Feb-20
5	Miss Match Day	20-Feb-20
6	Shiv Jayanti	20-Feb-20

53. Details of the contributions of alumni in the development of the department/ institution through financial and non financial means:

Alumni

Sr. No	Date	Title	Speaker	Attendees	Duration
1	19/07/19	Talk on Preparing for Higher studies Abroad	Tejas Kamath	65	1 day
2	27/04/20	Webinar cum workshop on Automotive design	Kunal Kashyap	35	1 day

54. Details of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies:
    Financial Assistance

Sr.No	Name of teacher	PAN	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support(REMARK)
1.	Prof.Ameya Nijasure	AKVPN2537J	National Symposium on innovation in Geospatial Technology for	National Symposium on innovation 2019	Rs.25000/-

			Sustainable Development with special emphasis on NER Shillong, Travelling expense for one Faculty		
2	Prof.Ameya Nijasure	AKVPN2537J	For presenting a paper at ICTIEE-2020 (Seventh Interantional Conference on Transfromations in Engineering Education) held at Anurag College of Engineering, Hyderabad	ICTIEE-2020 (Seventh Interantional Conference on Transfromations in Engineering Education) (for a part of Registration and travel charges)	Rs 6000/-

55. Number of professional development/administrative training programs organized by the department for teaching and non teaching staff:

Sr. No	Title of the professional development program organised for teaching staff	Title of the administrative training program organised for non-teaching staff	Dates (from-to)	Dates (from-to) Nonteaching	No of participants (Teaching staff)	No of participants (Nonteaching staff)
1	Workshop on Handling Emergencies and First Aid techniques	--	17 August 2019	17 August 2019	2	3

56. Details of teachers attending professional development Programs viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes:

Number of teachers who attended	Title of the professional development program	Date and Duration (from – to)
DIVYA PADMANABHAN(01)	4 Day FDP on "Research, Funding Projects & IPR	9th – 13th December 2019

DIVYA PADMANABHAN(01)	Programming for Everybody (Getting Started with Python) - (Coursera)	5th April 2020
DIVYA PADMANABHAN(01)	One Week FDP on "Scilab"	11th – 15th May, 2020
DIVYA PADMANABHAN,PANKAJ	2 - Day online FDP on "Challenges, Opportunities and Possible effects caused	4th – 5th May, 2020
DIVYA PADMANABHAN(01)	One Week STTP on "Management Information system"	1st – 5th July 2019
PANKAJ V KHAKHARE(01)	2 Days Workshop on "Application Programming Interface (API) using	26th - 27th August 2019
DIVYA PADMANABHAN(01)	One week FDP on Renewable Energy Sources by CUMMINS College, Nagpur	15th May - 21th May 2020
AMEY P MARATHE(01)	Control System Engineering	11th January 2020
AMEY P MARATHE(01)	Lean Six Sigma Foundations	11th December 2019
AMEY P MARATHE(01)	Blockchain Basics	13th December 2019
AMEY P MARATHE(01)	Learning Minitab	12th December 2019
AMEY P MARATHE(01)	Learning MATLAB	3rd January 2020
AMEY P MARATHE(01)	Scrum: The Basics	14th December 2019
AMEY P MARATHE(01)	Scrum: Advanced	16th December 2019
AMEY P MARATHE(01)	Six Sigma: Green Belt	11th December 2019
AMEY P MARATHE(01)	Workshop on Hybrid Drives Development	11th January 2020

AMEY P MARATHE	PMP® Certification Training-2018	03rd April 2020
AMEY P MARATHE	Natoinal Level Webinar on Simulation Driven Innovation for E-Mobility	10th June 2020
AMEY P MARATHE.(01)	2 day Live Workshop on EV modeling using Matlab/Simulink	29th 30th May 2020
DIVYA PADMANABHAN,AMEY P	One Day Webinar on 'Graphene-The Future Material' held on 18th May 2020 at	18th May 2020
AMEY P MARATHE(01)	5 Day Online PIP on Vehicle Dynamics and Control	12th to 17th May 2020
AMEY P MARATHE(01)	Introduction to Battery Management Systems (Coursera) 5 weeks Program	06th June 2020
AMEY P MARATHE(01)	Short Term Training Program on Formula Racing Car Design with CATIA	25th-29th May 2020
AMEY P MARATHE(01)	Advance System Methodologies for EV's	19th to 29th May 2020
AMEY P MARATHE(01)	Electric Vehicle Simulation using Ricardo Tools	13th June 2020
AMEY P MARATHE(01)	On Formula Racing Car Design with CATIA Workshop	14th May 2020
AMEY P MARATHE(01)	Faculty Development Webinar on Electric Vehicles by SAE India Western Section	12th to 16th May 2020
PANKAJ V KHAKHARE(01)	Webinar on "Transformation post COVID - 19 an emerging new world"	24th May 2020
AMEYA NIJASURE,PANKAJ V	Excel Skills for Business: Essentials(Coursera)	14/05/2020
PANKAJ V KHAKHARE,KAK(02)	One day online training on Two-wheeler safe riding session	16th June 2020

AMEYA NIJASURE(01)	Introduction to Programming with MATLAB - (Coursera)	May 2020
AMEYA NIJASURE(01)	Fine Tuning Research Planning Using Elsevier Tools: Science Direct, Scopus And	May 2020
AMEYA NIJASURE(01)	Excel Skills for Business: Intermediate I - (Coursera)	04/08/20
AMEYA NIJASURE(01)	How to publish research paper	04/10/20
DIVYA PADMANABHAN(01)	One week FDP on "R Programming"by Spoken Tutorial and PCE	29th April-3rd May 2020
DIVYA PADMANABHAN(01)	Attended Orientation Program on Vehicle Safety at MHSSCOE	22 nd Jan 2020
DIVYA PADMANABHAN(01)	2 week FDP on Comprehensive e-Learning to e-training for Administartaive Work	25th May-5th June 2020
DIVYA PADMANABHAN(01)	3 Day FDP on Advanced Material Characterisation Techniques	28-30th May 2020
DIVYA PADMANABHAN(01)	Effective and Efficient Online Teaching in the Age of Corona, A Hands On Workshop'	24th May 2020
DIVYA PADMANABHAN(01)	3 day FDP Exploring Research Challenges and Opportunities in Science &	27-29th May 2020
DIVYA PADMANABHAN(01)	1 week FDP on "Innovation, Entrepreneurship and its Relevance in	25-29th May 2020
DIVYA PADMANABHAN(01)	4 day FDP on INNOVATIVE TRENDS IN ENGINEERING AND TECHNOLOGY	25-29th May 2020
GEORGE VARGHESE(01)	Intro to TensorFlow(Coursera)	8th April 2020
GEORGE VARGHESE(01)	Recommendation Systems with TensorFlow on GCP(Coursera)	11th April 2020

GEORGE VARGHESE(01)	Production Machine Learning Svstems(Coursera)	12th april 2020
GEORGE VARGHESE(01)	End-to-End Machine Learning with TensorFlow on GCP(Coursera)	15th april 2020
GEORGE VARGHESE(01)	Image Understanding with TensorFlow on GCP(Coursera)	17th april 2020
GEORGE VARGHESE(01)	Advanced Machine Learning with TensorFlow on Google Cloud Platform	17th april 2020
GEORGE VARGHESE(01)	Technical Support Fundamentals(Coursera)	20th april 2020
GEORGE VARGHESE(01)	Essential Google Cloud Infrastructure: Foundation(Coursera)	22th april 2020
GEORGE VARGHESE(01)	Google Cloud Platform Fundamentals: Core Infrastructure(Coursera)	24 th april 2020
GEORGE VARGHESE(01)	Essential Google Cloud Infrastructure: Core Services(Coursera)	27th april 2020
GEORGE VARGHESE(01)	Sequence Models for Time Series and Natural Language Processing(Coursera)	28th april 2020
GEORGE VARGHESE(01)	Feature Engineering(Coursera)	May June 2020
GEORGE VARGHESE(01)	Modernizing Data Lakes and Data Warehouses with GCP(Coursera)	May June 2020
GEORGE VARGHESE(01)	Building Resilient Streaming Analytics Systems on GCP(Coursera)	May June 2020
GEORGE VARGHESE(01)	Art and Science of Machine Learning(Coursera)	May June 2020
GEORGE VARGHESE(01)	Google Cloud Platform Big Data and Machine Learning Fundamentals(Coursera)	May June 2020

GEORGE VARGHESE(01)	How Google does Machine Learning(Coursera)	May June 2020
GEORGE VARGHESE(01)	Building Batch Data Pipelines on GCP(Coursera)	May June 2020
GEORGE VARGHESE(01)	Launching into Machine Learning(Coursera)	May June 2020
GEORGE VARGHESE(01)	Smart Analytics, Machine Learning, and AI on GCP(Coursera)	May June 2020
GEORGE VARGHESE(01)	Networking in Google Cloud: Defining and Implementing Networks(Coursera)	May June 2020
GEORGE VARGHESE(01)	Google Cloud Platform Fundamentals: Core Infrastructure(Coursera)	May June 2020
GEORGE VARGHESE(01)	Essential Google Cloud Infrastructure: Foundation(Coursera)	May June 2020
GEORGE VARGHESE(01)	Reliable Google Cloud Infrastructure: Design and Process(Coursera)	May June 2020
GEORGE VARGHESE(01)	Elastic Google Cloud Infrastructure: Scaling and Automation(Coursera)	May June 2020
GEORGE VARGHESE(01)	Essential Google Cloud Infrastructure: Core Services(Coursera)	May June 2020
GEORGE VARGHESE(01)	Intro to TensorFlow(Coursera)	May June 2020
GEORGE VARGHESE(01)	Preparing for the Google Cloud Professional Cloud Architect Exam(Coursera)	May June 2020
GEORGE VARGHESE(01)	Preparing for the Google Cloud Associate Cloud Engineer Exam(Coursera)	May June 2020
GEORGE VARGHESE(01)	Sequence Models for Time Series and Natural Language Processing(Coursera)	May June 2020

GEORGE VARGHESE(01)	Architecting with Google Kubernetes Engine: Foundations(Coursera)	May June 2020
GEORGE VARGHESE(01)	Image Understanding with TensorFlow on GCP(Coursera)	May June 2020
GEORGE VARGHESE(01)	End-to-End Machine Learning with TensorFlow on GCP(Coursera)	May June 2020
GEORGE VARGHESE(01)	Production Machine Learning Systems(Coursera)	May June 2020
GEORGE VARGHESE(01)	Recommendation Systems with TensorFlow on GCP(Coursera)	May June 2020
GEORGE VARGHESE(01)	Technical Support Fundamentals(Coursera)	May June 2020
GEORGE VARGHESE(01)	Machine Learning with TensorFlow on Google Cloud Platform(Coursera)	May June 2020
GEORGE VARGHESE(01)	Cloud Engineering with Google Cloud(Coursera)	May June 2020
GEORGE VARGHESE(01)	Advanced Machine Learning with TensorFlow on Google Cloud Platform(Coursera)	May June 2020
GEORGE VARGHESE(01)	Data Engineering with Google Cloud(Coursera)	May June 2020
GEORGE VARGHESE(01)	From Data to Insights with Google Cloud Platform(Coursera)	May June 2020
GEORGE VARGHESE(01)	Cloud Architecture with Google Cloud(Coursera)	May June 2020
GEORGE VARGHESE(01)	Networking in Google Cloud(Coursera)	May June 2020
GEORGE VARGHESE(01)	Transformations post COVID-19 AN EMERGING NEW WORLD	May June 2020

GEORGE VARGHESE(01)	Campus to corporate	May June 2020
GEORGE VARGHESE(01)	Online teaching and learning using Google Classroom and google meet	May June 2020
GEORGE VARGHESE(01)	Online Quiz On "Basics of Mechanical Engineering"	May June 2020
GEORGE VARGHESE(01)	Online Quiz On "Engineering Mechanics and Engineering Drawing"	May June 2020
GEORGE VARGHESE(01)	Webinar on "Scope in Automotive Industry"	May June 2020
GEORGE VARGHESE(01)	One week FDP on "Usage of Technology in Covid-19"	May June 2020
GEORGE VARGHESE(01)	One week FDP on "Innovation, Entrepreneurship & It's Relevance in Industry 4.0 Practices in the Post Covid-19	May June 2020
GEORGE VARGHESE(01)	FDP on " Evolution from offline to online teaching"	May June 2020
KRISHNAMOHAN MENON(01)	One Week FDP on "Scilab"	11th – 15th May, 2020
KRISHNAMOHAN MENON(01)	2 - Day online FDP on "Challenges, Opportunities and Possible effects caused	4th – 5th May, 2020
KRISHNAMOHAN MENON(01)	Webinar on "EMOTIONAL WELL BEING AT WORK. (Psychology of	6 th April 2020
KRISHNAMOHAN MENON(01)	Webinar on "Best Practices and Strategies for Effecive Online learning"	8 th April 2020
KRISHNAMOHAN MENON(01)	Webinar on" IMPACT OF COVID -19 ON PLACEMENTS & INTERNSHIPS;	8th May 2020
KRISHNAMOHAN MENON(01)	The Golden Jubilee Talk Series on "Focus in and get problems out with a	20th May 2020
KRISHNAMOHAN MENON(01)	Online Webinar on "EMPOWER- Emotional Intelligence and COVID 19"	15 th June 2020

KRISHNAMOHAN MENON(01)	Quiz_COVID_19 Awareness_Pillai College New Panvel	21 st April 2020
KRISHNAMOHAN MENON(01)	Quiz_REFRIGERATION AND AIR CONDITIONING E-QUIZ LOYOLA-	26th June 2020
KRISHNAMOHAN MENON(01)	One Day Webinar on 'Graphene-The Fututre Material' held on 18th May 2020 at	18th May 2020
KRISHNAMOHAN MENON(01)	Webinar on "Transformation post COVID -19 an emerging new world"	24th May 2020
KRISHNAMOHAN MENON(01)	"Heat Transfer and Fluid Flow Simulation for a Heat Exchanger Unit Using a Ansys	8th May 2020
KRISHNAMOHAN MENON(01)	Grammar and Punctuation	9th May 2020
KRISHNAMOHAN MENON(01)	5 days FDP on "Moodle Learning Management Systems"	May 26 - May 30
KRISHNAMOHAN MENON(01)	Data Science Math Skills - Coursera	4/27/2020
KRISHNAMOHAN MENON(01)	The Ancient Greeks - Coursera	5/23/2020
KRISHNAMOHAN MENON(01)	Participation for Open Foam - Spoken Tutorials	3/1/2020
KRISHNAMOHAN MENON(01)	Participation for R- Programming - Spoken Tutorials	3/1/2020
KRISHNAMOHAN MENON(01)	Completion for R - Programming - Spoken Tutorials	5/8/2020
KRISHNAMOHAN MENON(01)	Webinar on "Emotional Well Being at Work"	5/5/2020
KRISHNAMOHAN MENON(01)	Webinar on "Know your Fabrics and Heritage of India	6/16/2020

KRISHNAMOHAN MENON(01)	Webinar on "Search Beyond Google"	5/19/2020
KRISHNAMOHAN MENON(01)	Quiz on "Basics of Engineering Mechanics and Engineering Drawing"	23/05/20
KRISHNAMOHAN MENON(01)	4 Day FDP on "Research, Funding Projects & IPR	9th – 13th December 2019
KRISHNAMOHAN MENON(01)	Webinar on "Best Practices and Strategies for Effective Online learning"	8 th April 2020
KRISHNAMOHAN MENON(01)	Webinar of Online teaching and learning using Google classroom and Google meet	22nd May, 2020
DIVYA PADMANABHAN(01)	5 Day Workshop on 'Curriculum Development with Learner Centric	10th – 14th June, 2020

57. Total Grants received from non-government bodies, individuals, Philanthropers:

Name of the non government funding agencies/ individuals	Funds/ Grants received in Rs.	Initiative
NONE	-	-

58. Details of quality enhancement initiatives in the academic and administrative domains of the department:

Quality enhancement Initiatives

i)   Higher studies and Research are always encouraged -2 research grants were received from University of Mumbai in 2019-20
ii) Currently 3 faculty members are pursuing PhD and 2 have completed till date while being employed in the college. Facilities like On-duty leaves and lecture adjustments are considered to enable them to carry out their research work.
iii) Faculty and the students are encouraged to upskill by way of certifications through NPTEL and Coursera courses.
iv) Most of the administration is paperless and most communications are made through emails and due to Covid pandemic situation, all of the administration and academics happened through online platforms since 15th March 2020
v)   Mentor-Mentee interactions and additional Class Coordinators ensure that the academic and other information is communicated to students. Concerns from students are brought to the notice of the administration and management and attempts to resolve them are done immediately.

vi)   Due to Covid pandemic situation, many webinars by industry experts, life coach and academicians have been organized for the benefit of faculty members and students.

vii)   Industrial visits, Value added courses, Seminars and Workshops on latest technologies are some other initiatives being practiced in the department and the quality of these courses and workshops have tremendously improved in the last year.

viii) Attempts to include the most relevant and needed technologies and programming skills in the curriculum to become a world class engineering graduate have been made through the participation of faculty members from the department in Syllabus Framing for Autonomy as well as for University of Mumbai.

ix)   Delegation of work is done in the department with responsibilities being allotted among the faculty members to ensure smooth functioning of the administration and documentation of all the activities.

59. Number of gender equity promotion Programs organized by the department:

Year	Title of the program	Date and Duration (from-to)	Number of participants	Link
2019-20	Women's Day	9th March 2020	45	Women's Day Report
2019-20	Entrepreneurship Summit Organized with IWFCI	21st August 2019	350	Report

60. Details of the PBL topics floated by the department:

Second Year:
SEM III - Column Design Challenge
SEM IV - Liquid Pouring Mechanism

Third Year:
SEM V - Keep it Warm
SEM VI - Earthquake Resistant Building Model

 PBL Reports

61. Details of the final year project:

Total 18 Projects
In House - 17 Projects
Industry - 01 Projects

  Final year Projects

62. Initiatives taken by the department to enhance the quality of teaching learning process, research and entrepreneurship:

A. Teaching learning process :-
1. E-lectures delivered by Faculty like MES E Learning channel, Youtube or any other platform
   (https://drive.google.com/open?id=1Vt9z8CbOX8OMNgxD14HkW1206ktjAU6T)

2. PBL - as important tool to enhance learning process is being followed.
   (https://drive.google.com/open?id=1EPMCg7bxlzbFRbvtygK2JOlzV3u0VRA-)
3. Participation of Faculty in various programs to improve teaching and learning as well as assessment is always welcome and as a result all the faculty have now been enabled to practise online teaching effectively.
4. Monitoring of lectures through AMS is also practised to ensure timely curriculum delivery.

B. Research :-

1.Details of conferences and journals where faculty have published their research work.
(https://drive.google.com/open?id=1uknyTsGPhTs94YBzyF0IMcPk9rYdaTfF)
2. The Final year Students had been asked to write a research paper based on their project work.

C. Entrepreneurship :-

1. IPR Course Details
(https://drive.google.com/open?id=1c1x_ECMWwwfWRqBd1sAE0rxq8KWKsXeQ)
2. Institute Innovation Council
(https://docs.google.com/document/d/1bpBGctynf0HiL8UNzYkh0P6m3Izq05yC6jqZwkW37U/edit?usp=sharing)
3. Students are always encouraged to ideate and they are supported for their innovative ideas in cash and kind.

Declaration by the Head of the Department/Institution:

I am aware that the above information provided by the department will be validated by the AAA committee during the visit.

Head of Department

Dr.Divya MV Padmanabhan