Yearly Status Report - 2018-2019

Part A	
Data of the Institution	
1. Name of the Institution	**MALNAD COLLEGE OF ENGINEERING**
Name of the head of the Institution	**K S JAYANTHA**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**08172245317**
Mobile no.	**9448554445**
Registered Email	**office@mcehassan.ac.in**
Alternate Email	**principal@mcehassan.ac.in**
Address	**Salagame Road Hassan**
City/Town	**Hassan**
State/UT	**Karnataka**
Pincode	**573202**

2. Institutional Status

Autonomous Status (Provide date of Conformant of Autonomous Status)	09-Jul-2007
Type of Institution	Co-education
Location	Urban
Financial Status	Self financed and grant-in-aid
Name of the IQAC co-ordinator/Director	Dr. G.Shivakumar
Phone no/Alternate Phone no.	08172245317
Mobile no.	6360422389
Registered Email	gs@mcehassan.ac.in
Alternate Email	gskmce@gmail.com

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://www.mcehassan.ac.in/mce_iqac_details.php

4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	https://www.mcehassan.ac.in/admin/storage/mce-mandatory-disclosures-files/July2022/VhaeFX27MzMhVaCAIIVj.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	B+	2.53	2018	03-Jul-2018	02-Jul-2023

6. Date of Establishment of IQAC	16-Mar-2018

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
One day FDP Seminar on	13-Jul-2018	30

Writing Effective Course Outcomes	01	

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8. Provide the list of Special Status conferred by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Malnad College of Engineering	TEQIP	NPIU-New Delhi	2018 1460	42948000

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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes

Upload latest notification of formation of IQAC	View File

10. Number of IQAC meetings held during the year :	2

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes

Upload the minutes of meeting and action taken report	View File

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No

12. Significant contributions made by IQAC during the current year(maximum five bullets)

Internal academic audit: A committee is formed to perform internal academic audit, headed by the Chairperson of IQAC. Senior Professors of MALNAD COLLEGE OF ENGINEERING from various department were members of the committee. The committee visited all the departments and interacted with faculty members to evaluate the teaching, learning and evaluation process being adopted for the course they thought. Various criteria such as CO framing, CO PO mapping, assessment tools used, question paper quality in terms of Blooms level, correlation of CIE and SEE marks, innovative teaching methods adopted for the course, are checked, recorded and reported. PO mapping for the program and best practices made by each department is also recorded. Based on the report, appropriate action is taken.

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
Encouraging interdisciplinary teaching learning by introducing open electives	Open electives are offered by various departments/programs of the institute. Many students have opted their elective courses and they have successfully completed. Further, students are encouraged to carry out interdisciplinary projects. Teams from inter departments have taken interdisciplinary projects and completed effectively. Further, a national level interdisciplinary competition project, REEV, conducted by SAE India, is being carried out, where students across all departments are working for the project
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14. Whether AQAR was placed before statutory body ?	No
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2018
Date of Submission	11-Jun-2018
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	Malnad College of Engineering utilizes Management information system called, "CONTINEO " package , being monitoring by the institution and the third party. The package comprises of ten modules. The following enlighten the dedicated modules. 1.Academic setup : This module is used to setup Institution, Streams, Degrees, Courses, Departments, Designations, Academic years, Calendar of Events. It includes a) Subject management based on credits. b) Subject allotment to programs c) Students subject registration d) Students subject drop, withdraw e) Registration reports f) Section creation g) Students allotment for sections h) Practical

batch creations and students allotment i) Timetable input to system 2. Dashboard : The module has the key parameters and controls for all roles on the system Faculty, HoD, Admission officer, Admission In charge, Principal, Dean, Director. The submodules include a) Faculty Dashboard b) HOD Dashboard c) Dean/Director Dashboard 3. LDPR Topic coverage tracking : This module provides information on portion coverage is tracked for each facultycourse combination, non topic activities are also recorded under this module. The module include the following option a) Provision given to capture the modules in the syllabus b)Provision given to enter the lesson plan class wise, module wise. c) Module wise 100 coverage option is given. d) Provision to view the entered LDPR is given 4. Student mentoring / counselling: This modules speak about Who is mentoring whom, how regularly, what was the student counselled about and are followups done on time are the key features of this function include, a) Set up Mentors and Mentees b) Capture Counseling Notes c) Set up Follow up dates for Counseling d) Review of complete IA and Attendance of student e) Provision of sharing of selective Counseling notes with parents on portal. Will be enabled after college confirms. 5. Student feedback on faculty : The module provides Feedback on faculty and course exit feedback(only for final year studemts). Reports given for the same. 6. Student / Parent communication : This feature set allows for communication to parents and students through a mobile responsive web portal. Typical information available includes exam result and history, credit earned progression, fees payment history and balance, absent intimation, summary of attendance, internal assessment, counselor feedback, time table, calendar of events. Fees payment and registration for optional activities like revaluation etc are also enabled through this module. 7. SMS: SMS are available for all common events like absentee intimation, absentee summary, CIE marks, exam results intimation and custom SMS for all other activities

required by the institution 8. OBE based Internal assessment : Entry by faculty of Internal assessment marks is tracked and monitoring parameters available for analysis a) IA events configured. b) QP entered c) Provision given to map CO,PO, Blooms level with each question in the QP d) Reports integrated for the same 9. OBE for NBA : End to end entry, measurement and reporting of direct attainment. The data is collected in process for CIE theory, rubrics for Lab and criteria fbased review for Projects and SEE. 10. Student Activity points for VTU : Recording and tracking activity points as specified by VTU and processing in exam for Degree eligibility

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BE	IS603	Object Oriented Modelling and Design	09/07/2018
BE	IS701	Cryptography and Network Security	09/07/2018
BE	CV105/205	Engineering Mechanics	06/07/2018
BE	CS302	Computer Organization	30/06/2018
BE	CS306	Unix and Shell Programming	30/06/2018
BE	CS701	Machine Learning	30/06/2018
BE	EE506	Digital Signal Processing	07/07/2018
BE	EE304	Electric measurements and Instrumentation	07/07/2018
Mtech	EED104	Power Electronic Converters	07/07/2018
[View File](#)			

1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BE	CIVIL Engg	Nill	Basic	Nill

BE	CIVIL Engg	Nill	Surveying 18CV303	Nill
BE	CIVIL Engg	Nill	Survey Practice Basic Techniques 18CV308	Nill
BE	Electronics and communication Engg	Nill	Digital Signal Processing EC502	Nill
BE	Electronics and communication Engg	Nill	VLSI Circuits and Systems EC503	Nill
BE	Electronics and communication Engg	Nill	Python Programming EC501	Nill
BE	Electronics and communication Engg	Nill	Machine Learning EC759	Nill
BE	Electronics and Instrumentation Engineering	Nill	PLC and DCS in Process Control Automation EI702	Nill
BE	Electronics and Instrumentation Engineering	Nill	Artificial Neural Networks and Applications EI703	Nill
BE	Electronics and Instrumentation Engineering	Nill	VLSI Technology and Design EI752	Nill
BE	Electronics and Instrumentation Engineering	Nill	Managing Innovations EI765	Nill
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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	CS-Data Compression	30/06/2018
BE	EI-Augmented and virtual reality	30/06/2018
BE	EI-Statistical Process Control	30/06/2018
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.		
Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Civil Engineering	01/06/2005
BE	Mechanical Engineering	05/06/2015
BE	Electrical and Electronics Engineering	01/06/2007
BE	Electronics and Communication engineering	06/07/2015
BE	Computer Science	05/06/2015
BE	Electronic Instrumentation	08/06/2007

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year		
Value Added Courses	Date of Introduction	Number of Students Enrolled
Environmental Studies	01/08/2018	326
Communication Skills-I	01/08/2018	589
Constitution of India Professional Ethics	01/08/2018	443
Micro Controller (5th)	01/08/2018	58
Power System Simulation lab	01/08/2018	58
Communication Skills –II	01/08/2018	284
Intellectual Property Rights and cyber law	01/08/2018	119
Aptitude Reasoning Development	01/08/2018	105
Analytical Ability Development	01/08/2018	162
Language Skills	01/08/2018	172
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1.3.2 – Field Projects / Internships under taken during the year		
Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Electronics and Communication Engineering	147
BE	Computer Science	19
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.	
Students	Yes

Teachers	Yes
Employers	Yes
Alumni	No
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained

Feedback is obtained through a well-structured questionnaire from Students, Teachers, and Parents. The feedback collected is analysed at Institutional level. A course end survey is being conducted online from students of all the program for each course. This would be performed at the end of each semester. About eighteen well-structured questionnaires are framed. They include understanding level of learning, effect of learning, ability to enhance cognitive, analytical, and solving skills, updating recent trends in the current technology and so on. The access of the feedback system is given to heads of the department to collect the same. Feedbacks obtained are discussed in the department academic committee and analyse the same for appropriate actions. Students also provide feedback for each course coordinator or faculty. The feedback from students is taken twice in the semester. One is at the middle of semester and other at the end. Students have been asked to provide feedback based on various questionnaires. They include faculty sincerity/discipline in engaging classes, comprehensive teaching process, valuation of answer scripts, coverage of syllabus/portion in each module and so on. A faculty who gets less than the department average feed back value, he/she is called for the explanation and the same is recorded for further action. An exit feedback survey from the student community across all the engineering branches is collected at the end of the four years of their undergraduation. A well structured questionnaire is floated online and the same is received from the students. The main questionnaire includes admission process teaching learning process, evaluation, laboratory facility, equipments, library, placement services, sports facility, canteen and other facilities of the institute. The main moto of feedback from parents is to provide parents, the opportunity to remark on the quality of their ward's learning experience to assess the success of academic provision in relation to the expectations of both the parents and the students and to provide feedback to the faculty to improve delivery and content of the curriculum. Parents are contented with the good infrastructure of the institution. Parents also found that the children have a good learning experience in the institute because of the well qualified faculty, teaching the children and feedback provided by the teacher is appreciated. However certain recommendations and suggestions were made by the parents. Parents suggested that more placements facilities are to be provided for the core branches of Engineering. Alumni feed back is considered in many matters as they have representation in many committees of the institution. Alumni have their own role in board of Governors, board of studies, industrial advisory board, Internal quality assurance cell, Academic council and so on. Regularly, these committees meet and the suggestions from the alumni are considered and implemented. Annual alumni meet ,Nenapina Dhoni would be organized every November/December month of the year in the college campus and alumni across the country would participate and during the meet feedback is collected.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the	Programme	Number of seats	Number of	Students Enrolled

Programme	Specialization	available	Application received	
BE	EC	90	85	85
BE	EE	60	54	54
BE	IP	60	38	38
BE	AU	60	48	48
BE	EI	60	61	61
BE	IS	60	56	56
BE	CS	180	179	179
BE	ME	180	152	152
BE	CV	120	117	117
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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	790	0	188	0	188

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
188	188	7	50	15	3
[View File of ICT Tools and resources]()					
[View File of E-resources and techniques used]()					

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Every student admitted to Malnad College of Engineering is assigned to a mentor and faculty adviser. The faculty advisor will guide and advising the students in choosing suitable electives, swayam courses and course regestration and withdrawal of the courses. Faculty advisor keeps track of the activity points, swayam courses and internships done by students. Faculty advisor will also prepare list of weak learners and counsel them to improve performance. A mentor contentiously monitors the performance of their mentee and counsel and advice the mentee to improve his/her performance in continuous internal evaluation and semester end evaluation. mentor gives advice to complete activity points, select suitable courses for swayam, elective and open elective courses. Mentor also listens to the grievance of the student regarding academic and non-academic matters and gives suitable suggestions to solve the problem faced by the mentee.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
790	188	1:4

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
262	7	26	7	63

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr. B. E. Yogendra	Professor	Student Project Program
2019	Prof. KS Manjunath	Professor	Student Project Program
2019	Dr. Jeevan TP	Associate Professor	International Nanotribology forum Travel Grant
2019	Dr. Gopi K R	Associate Professor	Postdoctoral Fellowship
2019	Dr. Shashank Lingappa M	Assistant Professor	VTU Competitive Research Grant
2019	Dr.T.P. Jeevan	Associate Professor	Research Grant
2019	Dr. P. Madhu	Assistant Professor	Research Grant
2019	Dr.Geetha Kiran A	Professor	Most Influential Educational Leadership Award
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2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	CV/ME/IP/AU/EE/EC/EI/CSE/ISE	I SEMESTER	08/12/2018	08/01/2019
BE	CV/ME/IP/AU/EE/EC/EI/CSE/ISE	II SEMESTER	13/05/2019	03/07/2019
BE	CV/ME/IP/AU/EE/EC/EI/CSE/ISE	III SEMESTER	01/04/2019	01/12/2019
BE	CV/ME/IP/AU/EE/EC/EI/CSE/ISE	IV SEMESTER	26/06/2019	28/06/2019
BE	CV/ME/IP/AU/EE/EC/EI/CSE/ISE	V SEMESTER	01/04/2019	01/12/2019
BE	CV/ME/IP/AU/EE/EC/EI/CSE/ISE	VI SEMESTER	26/06/2019	28/06/2019

BE	CV/ME/IP/AU/EE/EC/EI/CSE/ISE	VII SEMESTER	01/04/2019	01/12/2019
BE	CV/ME/IP/AU/EE/EC/EI/CSE/ISE	VIII SEMESTER	26/06/2019	28/06/2019
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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
668	1580	Nill

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

https://www.mcehassan.ac.in/admin/storage/mce-mandatory-disclosures-files/July2022/nZNb4p3z0n5s3xhOstEn.pdf

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
AU	BE	AU	38	37	97.36
CS	BE	CS	64	62	96.87
CV	BE	CV	76	75	98.6
EC	BE	EC	101	95	94.05
EE	BE	EE	49	45	91.83
EI	BE	EI	47	43	91.48
IP	BE	Ip	23	22	95.65
IS	BE	IS	32	32	100
ME	BE	ME	100	95	95
DECS	Mtech	DECS	14	14	100
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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

https://www.mcehassan.ac.in/admin/storage/mce-mandatory-disclosures-files/September2022/SNpexEK1HHD3qDA282I8.pdf

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

No
No file uploaded.

3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	Dr. Geetha Kiran A	TEQIP Competitive Research Grant	02/12/2019	Visvesvaraya Technological University
International	Yashas Gowda T G	Doctral Program at KMUTNB with full fee waive off	01/10/2018	KMUTNB

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3.2 – Resource Mobilization for Research

3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Minor Projects	182	KSCST	0.11	0.11
Major Projects	365	TEQIP	24.82	24.82
Major Projects	365	TEQIP	15.34	15.34
Projects sponsored by the University	365	VTU	2	2
Any Other (Specify)	1825	DST-FIST	150	50
Any Other (Specify)	1095	TEQIP III	17.7	17.7
Any Other (Specify)	365	KSCST	0.16	0.16

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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

1

3.3 – Innovation Ecosystem

3.3.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Workshop on "Aptitude and Programming Skill"	Computer Science	12/10/2018
Two days workshop on "Entrepreneurship"	Computer Science	09/11/2019
FDP on Recent Trends in Automotive Technology	Automobile	25/06/2018

One week Faculty Development Programme on "Recent Developments in Solar and Wind Energy System for ON/OFF Grid Applications"	Electrical and Electronics	09/07/2018
Five-day Faculty Development Program on "Computation and Real Time Analysis of Systems Using MATLAB XILINX"	Electrical and Electronics	16/07/2018
Three-day STP on Real Time Analysis of Systems using MATLAB	Electrical and Electronics	01/10/2018
Recent Innovative Technologies in Communication	Electronics and Communication	13/10/2018
Next Generation Communication systems	Electronics and Communication	12/11/2018
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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Effect of Soil Erosion on Crop Production of Puttur Dakshina Kannada District Karnataka	Student Project Program	Karnataka State Council for Science and Technology	30/07/2019	Nill
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
MCE	MERIISE	Govt. of Karnataka	TechKids	Kids Education	02/02/2018
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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Electronics and Communication	2
Mechanical Engineering	3
Civil Engineering	1

3.4.2 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)

International	Electronics and Communication	9	Nill
International	Computer Science Engineering	8	Nill
International	Automobile Engineering	8	Nill
International	Civil Engineering	27	Nill
International	Electronics and Instrumentation	5	Nill
International	Industrial and Production Engineering	5	Nill
International	Electrical and Electronics	4	Nill
International	Mechanical Engineering	13	Nill
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3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Civil Engineering	1
Computer Science Engineering	1
Electronics and Communication	13
Mechanical Engineering	1
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
METAL MATRIX HYBRID COMPOSITES	Published	201741016480 A	09/06/2017
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3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Design and Analysis for the Presence of Bacillus Cereus in Blood Using Plasmons	P C Srikanth	International Journal of Engineering and Technology(IJET)	2018	Nill	Malnad College of Engineering, Hassan	Nill

Node Localization Performance for UWSN Topologies	N Yashwanth, BR Sujatha	J. Commun.	2019	Nill	Malnad College of Engineering, Hassan	Nill
Orthogonal Frequency Division Multiplexing-Multiple Input Multiple Output Channel Estimation for Rayleigh and Rician Channel Models	RB Hussana Johar, BR Sujatha	Springer, Cham	2019	Nill	Malnad College of Engineering, Hassan	Nill
Enrichment of Return loss Characteristic of a Rectangular Microstrip Patch Antenna with Defected Structures for 5G wireless Applications	Murthi Mahadeva Naik G	International Journal for Research in Engineering Application Management (IJREAM),	2019	Nill	Malnad College of Engineering, Hassan	Nill
Bandwidth Enhancement using Two Dumble shaped Defected ground Structures and a strip of Gold on feed in a Rectangular Microstrip Patch Antenna for WLAN a	Murthi Mahadeva Naik G	International Journal for Research in Engineering Application Management (IJREAM),	2019	Nill	Malnad College of Engineering, Hassan	Nill

	Title	Author	Journal	Year		Institution	
	Enanhancement of Bandwidth in a probe-Fed rectangular Microstrip Patch Antenna using I-shaped Defected ground Structure for wireless application	Murthi Mahadeva Naik G	Journal of Emerging Technologies and Innovative Research (JETIR)	2018	Nill	Malnad College of Engineering, Hassan	Nill
	Low Area FPGA Implementation of PRNG_LCC_CSLA Architecture Based on Chaotic Circuit	B.R.Sujatha, Baby H T	International Journal of Intelligent Engineering Systems	2019	Nill	Malnad College of Engineering, Hassan	Nill
	Buffer Based Load Balancing Routing Mechanism for Wireless Mesh Networks	Keerthi D S	International Journal of Computer Engineering and Technology(IJCET)	2019	Nill	Malnad College of Engineering, Hassan	Nill
	Delay-Based Routing Mechanism for Load Balanced Routing in Wireless Mesh Networks	Keerthi D S	International Journal of Computer Sciences and Engineering	2019	Nill	Malnad College of Engineering, Hassan	Nill
	Effect of boron nitride and zirconium dioxide on mechanical behavior of Al7075 Metal	Ravikumar K.P.	SCI	2018	Nill	Malnad College of Engineering, Hassan	Nill

Matrix Composite						
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3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Design and Analysis for the Presence of Bacillus Cereus in Blood Using Plasmons	P C Srikanth	International Journal of Engineering and Technology(IJET)	2018	4	0	Malnad College of Engineering, Hassan
Node Localization Performance for UWSN Topologies	N Yashwanth, BR Sujatha	J. Commun.	2019	6	0	Malnad College of Engineering, Hassan
Orthogonal Frequency Division Multiplexing-Multiple Input Multiple Output Channel Estimation for Rayleigh and Rician Channel Models	RB Hussana Johar, BR Sujatha	Springer, Cham	2019	6	0	Malnad College of Engineering, Hassan
A Real Time Human Emotion Recognition System Using Respiration Parameters and ECG	G.Shivakumar	Springer	2018	4	2	Malnad College of Engineering, Hassan
A Real Time Human Emotion Recognition System	G.Shivakumar	Springer	2018	3	1	Malnad College of Engineering, Hassan

using Respiration Inhale-Exhale Temperature Patterns and ECG						
Recent Trends and Challenges in Campus placements of Engineering Institutions	C S Suresh Babu	Journal of Engineering Education Transformations	2018	5	1	Malnad College of Engineering, Hassan
A Real Time Human Emotion Recognition System Using Respiration Parameters and ECG	C. M. Naveen Kumar	Springer	2018	4	2	Malnad College of Engineering, Hassan
A Real Time Human Emotion Recognition System using Respiration Inhale-Exhale Temperature Patterns and ECG	C. M. Naveen Kumar	Springer	2018	3	1	Malnad College of Engineering, Hassan
[View File](#)						

3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	55	25	0	0
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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Civil Engineering	SBC CBR, Soil Samples Testing	Mr.Madhu.G.H.Jayanagar, Hassan	11328
Civil Engineering	SBC CBR, Soil Samples Testing	M/s. Roy and Shenoy, Bangalore	8556
Civil Engineering	SBC CBR, Soil	The Director,	2256

Civil Engineering	SBC CBR, Soil Samples Testing	KMF, Hassan	
Civil Engineering	SBC CBR, Soil Samples Testing	Dr.Kiran Kumar, Hassan	1949
Civil Engineering	SBC CBR, Soil Samples Testing	Mr.Shekar Gowda, Contractor, Hassan	5664
Civil Engineering	SBC CBR, Soil Samples Testing	M/s. Accor Construction, Bangalore	8496
Civil Engineering	SBC CBR, Soil Samples Testing	Asst.Exe. Engineer, No.2PRE Sub Dn,Belur.	5664
Civil Engineering	SBC CBR, Soil Samples Testing	Asst.Exe. Engineer, PRE Sub Dn,C,R.Patna	8496
Civil Engineering	SBC CBR, Soil Samples Testing	Asst.Exe. Engineer, PRE Sub Dn,Arkalgud	11328
Civil Engineering	SBC CBR, Soil Samples Testing	Asst.Exe. Engineer, PRE Sub Dn,Sakleshpur	11328

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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
Civil Engineering	Continuous Education Programm for PW Irrigation Engineers	Public works Department and irrigation department, Govt. of Karnataka	86129	20

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3.6 – Extension Activities

3.6.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Blood donation	Malnad College of Engineering RED cross unit, Hassan	10	45
Reach out success	NSS	2	60

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3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Effect of Soil	Student Project	Karnataka State	4

Erosion on Crop Production of Puttur Dakshina Kannada District Karnataka	Program	Council for Science and Technology	

[View File](#)

3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
Blood donation camp	MCE, NSS Red cross wing, Hassan	Blood donation camp	3	190

[View File](#)

3.7 – Collaborations

3.7.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
NIL	nil	NIL	00

No file uploaded.

3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Internship	Internship	Abhiyantix and Sapience academy , Mysore (10th to 28th July 2018)	10/07/2018	28/07/2018	Keerthana M.
Internship	Internship	Abhiyantix and Sapience academy , Mysore (10th to 28th July 2018)	10/07/2018	28/07/2018	Rajath K.R.
Internship	Internship	Abhiyantix and Sapience academy , Mysore (10th to 28th July 2018)	10/07/2018	28/07/2018	Amulya D. Raj
Internship	Internship	Abhiyantix and Sapience academy ,	10/07/2018	28/07/2018	Hima Palaksha H.P.

| Internship | Internship | Abhiyantix and Sapience academy , Mysore (10th to 28th July 2018) | 10/07/2018 | 28/07/2018 | Meghana H.T. |

(Row above the Internship row): Mysore (10th to 28th July 2018)

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3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Advanced Electronics Technologies	11/07/2018	industry visit, Internship, project guidance	15
Reverie Language Technologies Private Limited	04/04/2018	Project Guidance	10
Prakash Sponge iron and power Private Limited	02/06/2018	Industry visit, Internship	50
CEPET, Mysore	24/03/2018	To develop a test rig for the water flow meters test and calibrate the Magnetic flow meters.	35

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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
162	285.01

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar halls with ICT facilities	Existing
Video Centre	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh)	Newly Added

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4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
Easy lib	Fully	4.3.3	2013

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	84584	12358238	485	186910	85069	12545148
Reference Books	10894	2723500	11	41029	10905	2764529
CD & Video	1500	Nill	Nill	Nill	1500	Nill
Library Automation	1	Nill	Nill	84960	1	84960

View File

4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Dr.C.V.Venkatesh	Design of Machine Elements -1	VTU e-Shikskana	19/08/2019

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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existing	600	552	3	0	10	15	20	200	0
Added	130	105	0	0	10	3	12	0	0
Total	730	657	3	0	20	18	32	200	0

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

200 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Nil	Nill

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurredon maintenance of physical facilites
280	210.64	75	67.13

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website)

The maintenance of physical, academic and support facilities are performed by the respective departments with the aid of in-house staff on daily basis and periodically. The attention has been given to keep the instruments, equipments, machine etc., in working good condition. Preventive maintenance for the instruments/equipment are being followed regularly. The college has a separate wing for maintaining physical facilities like building, electricity, water supply, sanitary, housekeeping etc. 1. Buildings and Campus : A dedicated estate engineer office manages the maintenance of building like repairs and renovations. Electrical engineering wing looking into the maintenance of electrical equipments and accessories in the college campus. Water supply lines are continuously being monitored and repaired under estate engineer office. Housekeeping department of the college looks into the daily cleaning of classrooms, departments, roads and landscape of the college. The sanitary cleaning is being outsourced for cleaning and maintaining toilets and washing areas of the college. A brief description is presented below on maintenance and utilization of some facilities. 2. Laboratories: For each laboratory, a faculty is made as lab in charge. Also, it is monitored by Foreman, Instructors, Assistant instructors and attendants. Lab in-charge is responsible to maintain and upgrade the laboratory with necessary instruments/equipments from time to time to remove obsolete systems. Dead stock verification is carried out to verify working/nonworking/missing equipments etc. Preventive maintenance and performance monitoring is carried out. Every laboratory assistance keeps the record of utilization of equipments, computers and other required material for experiments. 3. Library: A librarian with supporting staff have been appointed to maintain central library. They focus on the availability and utilization of instructional material in teaching and learning process. At end of the Academic year stock verification is performed. Librarian will prepare the report on the same and utilization of books by the students and staff. Procurement of books as per the requirement is initiated through library committee by inviting the requirement of books from various departments this is then processed following the procurement procedure. 4. Sport complex/ground/equipments: Physical Director of the institute looks after the sports facilities and the activities. The sports equipments are issued to the students as per the schedule of the events. If any equipments get faulty sport director submits proposal for maintenance. Preventive maintenance measures are taken in time. Sport director is responsible for keeping the record of utilization of sport Facilities, activities held, awards for the students etc. 5. Class Rooms: Class rooms are allocated to all departments along with necessary ICT tools. The class rooms are utilized as per the time table of the department. The classrooms are cleaned on daily basis monitored by institute garden committee supervisor. HODs and faculty advisors also monitor the cleanliness.

https://www.mcehassan.ac.in/admin/storage/mce-mandatory-disclosures-files/August2022/xDXjJpwiY9tsV6JDcVoA.pdf

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	**Best out going student / M foundation scholarship**	**22**	**296000**
Financial Support from Other Sources			
a) National	**Fee concession/ SC-ST Scholarship**	**1544**	**33225114**
b)International	**00**	**0**	**0**
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Communication and Aptitude skills	**22/06/2019**	**996**	**I EXEL, Mysore**
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2018	**Analytical ability Skill class**	**996**	**996**	**500**	**187**
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
0	**0**	**0**

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
ARICENT,QS PIDER	**300**	**187**	**BRILLIO,IN FOSYS**	**300**	**187**
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	3	BE	COMPUTER SCIENCE ENGINEERING	Nill	MTech, MS
2019	9	BE	CIVIL ENGINEERING	Nill	MTech, MS
2019	3	BE	AUTOMOBILE ENGINEERING	Nill	MTech, MS,MBA
2019	2	BE	ELECTRONICS AND COMMUNIC ATION ENGINEERING	Nill	MTech, MS

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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GRE	3
Any Other	2

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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Football	Zone	15
Football	Inter zone	15
Cricket	Zone	13
Cross County	Single zone	5
Volley ball	Zone	8

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5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	FIRST PLACE	National	1	Nill	Nill	VISHWAJITH NAIK
2019	FIRST PLACE	National	1	Nill	Nill	KARTHIK H K
2019	FIRST PLACE	National	1	Nill	Nill	NIKHIL P K

2019	FIRST PLACE	National	1	Nill	Nill	GOKUL G
2019	SECOND PLACE	National	1	Nill	Nill	AMULYA SHIVU
2019	FIRST PLACE	National	1	Nill	Nill	VIKRANTH GURAV

[View File](#)

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

MCE encourages student representation in many committees, formed in the college, for their active participation and to make student friendly campus. 1.Class Committee : Every undergraduate class has a committee to review the academic activities, progress and improvement plans of all courses of all semesters. The committee consists of HOD, Chair person, Class representative and the students representatives (4 Members/semester/section). The committee will discuss the academic related issues including conduction of classes, evaluation method and students grievances. 2. Professional Bodies : Many professional bodies like SAE, IEI, ISTE, CSI, IEEE, IETE, etc., student representatives actively participate by conducting Student conventions,chapters, technical events and quizzes etc with the help of faculty members. 3.News Letter/Magazine Committee : Students representatives who are nominated in the editorial board help to collect articles, drawings, papers etc from talented students. They compose, edit and take initiative in printing the newsletters at Department level and work for the preparation of magazine at college level. Faculty of the editorial board would guide them in the entire process of printing and releasing the magazine. Following are the few newsletter/magzines of various departments. Civil Engineering, https://www.mcehassan.ac.in/mcedisplay_files.php?filecivilmenunews_letter Mechanical Engineering, https://www.mcehassan.ac.in/mcedisplay_files.php?filemechanicalmenunews_letter Electronics Communication Engineering, https://www.mcehassan.ac.in/mcedisplay_files.php?fileecemenunews_letter Automobile Engineering, https://www.mcehassan.ac.in/mcedisplay_files.php?fileautomobilemenunews_letter Industrial Production Engineering, https://www.mcehassan.ac.in/mcedisplay_files.php?fileipemenunews_letter Computer Science Engineering, https://www.mcehassan.ac.in/mcedisplay_files.php?filecsemenunews_letter Electronics Instrumentation Engineering, https://www.mcehassan.ac.in/mcedisplay_files.php?fileitemenunews_letter Information Science Engineering, https://www.mcehassan.ac.in/mcedisplay_files.php?ileismenunews_lettertableis_other_links 4. Cultural Committee - The institution conducts cultural Fests such as "Malnad Fest", "Jamboree", "Saviskar". These programs are organised by the students' council and various clubs such as Literary club, Leo club, Rotract club, Tech club etc., students representatives will be the members of Core committee. They will help the faculty in charge in organizing these events. 5. NSS Committee - Students contribution to the society is significant and MCE students always show their concern in this regard. There is a NSS unit in the institution and volunteers of this committee will organize programs like NSS Camps, Swatch bharath, Blood donation camps etc. https://www.mcehassan.ac.in/mcenss.php 6. Anti sexual harassment Committee - Girl students and Lady Faculty Members will be the members of this Committee. The student members of the committee will report about any harassment issues to the concerned Committee coordinator for further action. https://www.mcehassan.ac.in/mcecollege_internal_commity.php MCE has a

student representation in all department's Board of studies. One final year student will a representative in BoS committee to give feedback and suggestions on curriculum, contents and assessments. There are two students representative in Academic council. These students will participate in academic council meeting and give their suggestions. The college has good number of student clubs who are responsible for conducting a large number of events in the college. The presidents of all clubs are invited for discussion in organizing college big events. These clubs promote technical, literary and cultural activities in the campus.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Malnad Alumni Association (MAA) was formed during mid eighties and started with one chapter at Bangalore. The association has an Executive Council having 12 members along with a President and Secretary. The Executive Council has formulated the objectives and activities of the association, which include both short term and long-term goals of the association. It has also formulated the Constitution of the MCE Alumni Association along with bylaws for its effectiveness and sustainability. MAAs network is very strong and the bonding between the alumni and the institution is reflected in various scholarships instituted by the alumni groups given to the students studying in the college and children studying anywhere, who are from economically weaker families. Laptops will be given to meritorious students. Labs have been equipped with IoT components with the help of alumni. Apart from these many other initiatives have been taken up by our proud alumni to motivate the current students towards greater achievements. Regular annual alumni meet titled "NENAPINA DONI" is organized every year on the second Saturday of every November. Huge number of alumni gathers and interacts with the final and pre final year students. This helps the students to know about the current industry needs and prepare themselves for placements. Many alumni have initiated campus placements and are successful in bringing the companies for campus hiring. Apart from NENAPINA DONI, regular alumni meets are organized across the globe and discussions take place to contribute something to the college. To name a few San Francisco meet in 2016, Karavali meet in Mangalore during 2017, Bangalore mega meet in 2018. A group of alumni have started funding and mentoring innovative projects carried out by the students. This has further strengthened the bond between the alumni and the college. Recently an alumni tower is proposed to be constructed in front of the library. Being a multi crore project, it will have a seminar hall, auditorium and few commercial components in it. In all, having a very strong alumni network, MCE is achieving many things related to academics, placements and the overall growth of the institution.

5.4.2 – No. of registered Alumni:

120

5.4.3 – Alumni contribution during the year (in Rupees) :

1603248

5.4.4 – Meetings/activities organized by Alumni Association :

Our alumni network is very strong and the bonding between the alumni and the institution is reflected in various scholarships instituted by the alumni groups given to the students studying in the college and children studying anywhere, who are from economically weaker families. Laptops will be given to meritorious students. Labs have been equipped with IoT components with the help of alumni. Apart from these many other initiatives have been taken up by our

proud alumni to motivate the current students towards greater achievements. Regular annual alumni meet titled "NENAPINA DONI" is organized every year on the second Saturday of every November. Huge number of alumni gathers and interacts with the final and pre final year students. This helps the students to know about the current industry needs and prepare themselves for placements. Many alumni have initiated campus placements and are successful in bringing the companies for campus hiring. Apart from NENAPINA DONI, regular alumni meets are organized across the globe and discussions take place to contribute something to the college. To name a few San Francisco meet in 2016, Karavali meet in Mangalore during 2017, Bangalore mega meet in 2018. A group of alumni have started funding and mentoring innovative projects carried out by the students. This has further strengthened the bond between the alumni and the college. Recently an alumni tower is proposed to be constructed in front of the library. Being a multi crore project, it will have a seminar hall, auditorium and few commercial components in it. In all, having a very strong alumni network, MCE is achieving many things related to academics, placements and the overall growth of the institution.

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

The institute maintains a decentralization approach. All academic and non-academic decisions based on policy are delegated by the Governing Body to the institute Committee, which is led by the Principal. The college committee develops standard operating procedures and delegates the execution to departments. The department HoD/Coordinators oversee the departments day-to-day operations and maintains track of the Colleges curricular, co-curricular and extracurricular activities. Students enjoy operational autonomy under the leadership of various committees/ clubs/ associations, and students from diverse departments are involved in the decision-making process. The institution is led by a number of groups heading with respective deans (Dean Academic Affairs, Dean Planning Development, Dean Exams, Dean Student Affairs, Dean PG Programmes and Dean Research Programs), committees that provide academic and administrative leadership. In reality, an optimal amount of decentralisation is achieved through an independent departmental system and a participatory decision-making process. The Chairman of the Governing Body is the Patron. The Governing Body is in charge of formulating policies and validating reports through the Secretary and Correspondent. The processes for making decisions are established at the appropriate levels of the organisational structure. Statutory entities, such as the IQAC, CICC and the Anti-Ragging Cell, are also incorporated in the organisational structure of the institution, as per university/government rules. Planning, execution, academic audit, and assessment are all handled by a committee comprising of professors. The governing body prepares and implements short and long-term plans that incorporate departmental plans, SWOT analysis findings, and other stakeholder inputs. This procedure is carried out in the institution every year. Policy and planning are implemented after collaboration with stakeholders. The policies are developed by management with the support of institutional and departmental committees and then included in the strategic plan.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Admission of Students	The institute attracts brilliant students in all branches with good rankings in Common Entrance Tests. This is possible only because of the reason that good number of students are placed to top industries with best packages.
Examination and Evaluation	Students are evaluated for internal and semester end examinations. The schedule of all internal assessment is announced by the college and all departments strictly adhere to it. The time table is prepared by Dean -examination in consultation with dean academic principal. The same is announced in all departments notice boards. The department in turn prepares announces the Continuous Internal Evaluation (CIE)time table, indicating the time slot for each course. Each course faculty will announce the syllabus for the test and prepares the question paper. A committee in the department scrutinizes all CIE papers. THREE internal tests are conducted for a total of 40 marks and activities are conducted for 10 marks. Semester end examinations (SEE) is conducted for 50 marks.
Library, ICT and Physical Infrastructure / Instrumentation	The institution utilizes Information and Communication Technology enabled e-learning tools in addition to traditional methods for effective teaching and learning both in department and library. The faculty are using power-point presentations for their teaching using laptops, personal computer, LCDs, and projectors. All the classrooms and laboratories are equipped with computers and projectors. The departments have classrooms with interactive board. There is free access to internet through LAN and Wi-Fi in the campus. The faculties and students have access to e-learning resources including e-books, open-access and subscribed journals.
Human Resource Management	The institute has highly qualified faculty members. More than 50 faculty members are doctorates and others are postgraduates. The faculty are provided with all facilities both in terms of financial and others. Very low attrition rate of faculty is seen in the institute. Faculty members are sent for training and FDPs frequently to

	update their knowledge in their field.
Industry Interaction / Collaboration	The Institute has dedicated industry interaction cell. The major function of the cell is to bridge the academia and industry to fill the technology gap between the two. The cell organizes various activities where experts from industry interact with our institute by delivering technical talks and guiding the students for their projects. Good number of industry are in contact with MCE and providing ample of opportunities for our students to carry out internships and project works in their organizations.
Research and Development	The college has an active Research wing. It is headed by Dr. G. Shivakumar, Dean (Research) and Professor of Electronics Instrumentation Engg. The nine Engineering Departments: Civil Engineering, Mechanical Engineering, Electrical Electronics Engineering, Electronics Communication Engineering, Automobile Engineering, Industrial Production Engineering, Computer Science Engineering, Electronics Instrumentation Engineering and Information Science Engineering have been recognized as research centres by the Visvesvaraya Technological University (VTU), Belagavi. Also, Mathematics and Physics departments are recognized as research centres by the VTU. There are a total of 49 VTU registered guides actively involved in the research activities. Currently 102 scholars, both full time and part time have enrolled for Ph.D. program and 9 students are pursuing M.Sc. (Engg.) by Research program.
Curriculum Development	The curriculum is developed considering the twelve Program Outcomes specified by National Board of Accreditation which ensures the requirements of Outcome Based Education as well as making our students to meet global expectations and become excellent professionals. Program Educational Objectives ensues the routines of our alumni. Curriculum is frequently revised by conducting regular meetings of Board of Studies, Industrial Advisory Board and Department Academic Committee. Syllabi is upgraded taking into consideration of AICTE, academic, research and

	industrial experts' recommendations. Various national and international curriculums are also scanned for framing new curricula or revision of the same.
Teaching and Learning	Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences.Experiential learning - The curriculum of a program is designed in a way that apart from the laboratory courses, few theory courses are embded with labortory sessions to make it more comprehensive learning. All programs have a mini/major projects to be carried out by students. Participative learning - Group assignments are given, which enables students to learn from each other and hone their leadership skills.This will also help them to learn and develop interpersonel skills. Problem-solving methodologies - a good number of questions in both internal and semester end examinations are at the "apply" level, thus enriching the problem-solving ability of students.

6.2.2 – Implementation of e-governance in areas of operations:

E-governace area	Details
Planning and Development	The institution strategic planning is done by dean, planning and development. The activities spread over for the year is planed for the institution and the same being conveyed to all the heads of the department through the presentations and same being sent through email or contineo package. All the faculty members are registering their academic course schedule and their contents through contineo, a package provided by the institution for planning all academic and curriculum activities. The calendar of events for both odd and even semesters are sent through contioneo package. Curriculum announcements and co curriculum activities are being displayed through the college website.
Administration	All the circulars and notices to the departments, staffs and students are sent through mails. The details of various aspects from the department is sent through the mails only. All correspondences from the departments to the administrative office is also made

	through the emails only. Any data for the universities, NBA, NAAC and other agencies are sent through the mails only. Inter department data exchange are also made through the internal network only. Consequently, any data required by the administration or any data sent by the administration are through e-governance only.
Finance and Accounts	All the financial activities in the institution is made through e governance only. The college utilizes Tally software for entering all the data with respect to financial issues. The date today transaction in the accounts department is made through the Tally software only. Various reports like weekly and monthly are taken from this software only and the same is being presented for any verification in the institution.
Student Admission and Support	Student admission process is made through continue software system. This includes the details of the students who admits to the college like his name, parents name, address phone number, email ID, blood group, academic credentials etc., are entered through the contineo software only. The data entered through this would be stored in contineo server and the same is being utilised for the further processing. The same data is utilised by the office of Dean, students affair, for preparation of student list, scholarship list and for fees collection.
Examination	Faculty of the institution enters CO and PO of all the courses in the contineo software. The marks obtained by the students from the internal CIE and SEE is entered by the faculty through the continue package only. Timetable for both CIE SEE will also be displayed through contineo package. The invigilation notices to the faculty members are sent through continue package for both theory and practical sessions. Valuation marks are also entered through contineo package and the same is being used to announce the results online for the students and parents. Finally, the results of examinations conducted by the college is analysed through contineo package system.

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2018	Geetha Kiran A	Sustainable Growth Through Universal practices in science , Technology and Management at International Centre Goa	TEQIP	24804
2018	Mohana Lakshmi J.	Sustainable Growth Through Universal practices in science , Technology and Management at International Centre Goa	TEQIP	13741
2018	Chandra Shekar H.S.	Internatinal Conferenceon Transformations in Engineering Education (ICTIEE) at SRM University Amaravathi, Andrapradesh	TEQIP	15799
2018	Neelkantappa B.B.	AP International conference on Transformations in Engineering Education at SRM University Amaravathi, Andrapradesh	TEQIP	21219
2018	Naveen kumar C.M.	International conference on Intelligent data communication Technologies and Internet of Things (ICICI 2018,at Hotel Arcadia Coimbatore,	TEQIP	11828

6.3.2 – Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2018	5 days FDP Short term Courses Recent Developments in Integrated Solar and Wind Energy Systems for on /off grid applications	Nill	09/07/2018	13/07/2018	61	5
2018	Five days Short term Course on Recent Trends in Automotive Technology	Nill	25/06/2018	29/06/2018	54	6

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Short term course on Advances in Deep Architectures for Signal , Image and Vision Application at IIIT Allahabad Campus	1	14/07/2018	28/07/2018	15
One week Workshop on	1	18/06/2018	22/06/2018	5

Smart Grid and Internet of Things at NIE , Mysore				

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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
21	21	39	39

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
PF, ESI, Casual Leaves, Earned Leaves, paternity, Maternity Leaves, Group Insurance and Personal Loans	PF, ESI, Casual Leaves, Earned Leaves, paternity, Maternity Leaves, Festival Advance, Group Insurance and Personal Loans	Scholarships and Group Insurance

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

Institute conducts internal financial audits by the financial audits of the institution. Basically, the annual financial plan is made by the college taking input from the department's budgets. Then, the college makes the annual budget. The expenditure for the academic, non-academic and maintenance activities are planned and accordingly spent. The audit is carried out by the internal and external auditors. The objections raised by the auditors are addressed by the finance committee of the college. Regular financial committee meetings are being held and the objections/issues are resolved according. The same is being communicated and further reports are generated.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Management	35300000	For academic and administrative purpose

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6.4.3 – Total corpus fund generated

0.00

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	Nill	Yes	Principal
Administrative	No	Nill	Yes	Principal

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

1. Parent Teacher meeting at institution level held on 4th May 2019. Many parents across all the branches attended the meeting and expressed their suggestions to the institution. The same being conducted at department level also.

6.5.3 – Development programmes for support staff (at least three)

1. 3 days FDP Workshop on Laboratory maintenance and skill development Programme for Technical staff, conducted during 05-07-2018 to 07-07-2018 2. One week Training on Exposure on CNC Lathe, Milling , EDMWrite cut machines at CIPET, Mysore, conducted during 07-01-2019 to 11-01-2019 3. One day Seminar on Training the proctors for Effective counselling conducted during 23-03-2019

6.5.4 – Post Accreditation initiative(s) (mention at least three)

1. One day FDP Workshop on Professional and Academic Quality in Engineering Courses (PAQ-2018) conducted during 23-04-2018 2. One day FDP Seminar on Writing Effective Course Outcomes conducted during 13-07-2018 3. Two days FDP workshop on Out come Based Education conducted during 04-08-2018 to 05-08-2018 4. One day Seminar on Training the proctors for Effective counselling conducted during 23-03-2019 5. One day Invited Lecture on Enhancing quality of technical Research for Faculty and Research scholars conducted during 20-03-2019 6. One day Invited Talk (OBE) conducted during16-03-2019

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	No
d)NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2018	One day FDP Workshop on Professional and Academic Quality in Engineering Courses (PAQ-2018)	23/04/2018	23/04/2018	23/04/2018	75
2018	One day FDP Seminar on Writing Effective Course Outcomes	13/07/2018	13/07/2018	13/07/2018	30
2018	. Two days FDP workshop on Out come Based Education	04/08/2018	04/08/2018	05/08/2018	55
2019	One day Seminar on	23/03/2019	23/03/2019	23/03/2019	31

	Training the proctors for Effective counselling				
2019	One day Invited Lecture on Enhancing quality of technical Research for Faculty and Research scholars	20/03/2019	20/03/2019	23/03/2019	48
2019	One day Invited Talk (OBE)	16/03/2019	16/03/2019	16/03/2019	36

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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Board of Governors (BOG)	01/06/2018	31/05/2019	1	1
Branch and Class representatives	01/06/2018	31/05/2019	3	3
Sports	01/06/2018	31/05/2019	23	12
Gym, indoor games and swimming pool	01/06/2018	31/05/2019	18	9

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
Solid waste such as bio wastes are being used to prepare the compost and same being used for fertilizing the plants / trees in the campus. An arrangement is made to utilize the solid waste coming out the compuss and to convert the same as compost preparation. A sewage treatment plant is installed in the campus to treat the used wastewater, particularly from the hostel outlet. The liquid waste is recycled and the same is being used to watering all the plants in campus. Solid waste (Answer Scripts) generated from the exam section is send to industries to recycle the same (Disposal of answer scripts). Unserviceable computers / equipments / machineries are regular disposed through the authorized agencies for recycling the same. Solar Energy: Solar Roof Top power generation 125 Kwp Solar Rooftop Photo Voltaic (SRTPV) system is installed in the E E Block. Module Details : Make : Vikram Solar Number : 385 PV Modules Rating : 325 Wp each 3 – Inverters are connected to PV System: Rating : 50 kW 50 kW 30 kW AV Voltage : 400V, 3-?? PV System is connected to grid Benefit : Utilizing solar power at 50 cost per unit compared to Power supply company.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Ramp/Rails	Yes	0
Provision for lift	Yes	0

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2018	1	1	25/04/2018	1	Blood donation camp	Blood for emergency	60
2018	1	1	20/07/2018	1	Blood donation camp	Blood for emergency situations	75
2018	1	1	17/11/2018	1	Blood donation camp	Blood for emergency situations	55
2018	1	1	04/04/2018	1	Reach out success	setting goals for students	60

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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
One day Awareness Programme on "Essentail of Entrepreneurship	21/08/2018	The aim of the program was to encourage the students to become entrepreneurs and to make them employers rather job seekers. The college has made facilities for students who are interested in start-ups ventures. Facilities like space, network, finance, etc. are made available. During this academic year three starts ups have geared up in the campus.
Two days students training on International Auditor Training on Quality management	11/10/2018	Students are trained for the quality management in engineering aspects. They are also

Systems ISO 9001:2015		exposed to QMS, planning, managing of resources, product realization, measurement, and analysis.
Two days FDP workshop on Being a great Teacher	03/11/2018	Teachers are exposed to new ways of teaching learning and research methods through IUCEE faculty empowerment courses. The faculty of the institution have introduced new innovative teaching methods in their courses. Particularly, activities are being conducted based on project-based learning.
One day workshop on Ethics for Engineers	10/10/2018	Engineering is a very important and learned profession. The practitioners of this occupation are expected to exhibit high integrity and honesty in their tasks, placing the public's interests and welfare above all else. A course/subject on Constitution of India and Profession Ethics is introduced in the B.E. program and it is being taught regularly.
15 days Training program Induction Program for 1 st Year Student	15/08/2018	Many sessions on human values are engaged in the induction program. As part of curriculum, the course Professional Ethics is introduced in all the engineering programs. Further, many programs on human values and ethic are being conducted by the department associations and NSS wing of the institution

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
One day Awareness Programme on "Essentail of Entreprenership	21/08/2018	21/08/2018	40

Two days students training on International Auditor Training on Quality management Systems ISO 9001:2015	11/10/2018	12/10/2018	30
Two days FDP workshop on Being a great Teacher	03/11/2018	04/11/2018	61
One day workshop on Ethtics for Engineers	10/10/2018	10/10/2018	76
15 days Training program Induction Program for 1 st Year Student	15/08/2018	01/09/2018	500
Six days Others program Art of Living -SELP	18/03/2019	23/03/2019	600

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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Waste Reduction Usage of following items are planned to ban in the campus which leads to significant reduction in generation of waste. a) Ban of paper tea and water cups and paper plates (Each department should keep steel tea cups and water cups for daily use Canteen people have brought 500 steel cups for small functions and also assured to keep 500 steel plates and steel spoons) b) Ban of plastic water bottles, plastic spoons and bowls in programs conducted by college and all departments. Decent jugs to pour water and glass/steel cups should be used for guests in all departments c) Ban plastic covered roses and Flower bouquet.: Plain Roses and Paper designed bouquets may be used d) Ban gift wrapper for memento : May be given with reusable cover or bag e) Ban of Thermocol used by students for design purpose: Cardboard and drawing sheets may be used as an alternative f) Digitization of circulars: Both valuation and exam coordinators agreed to chalk out plan in this direction. Reuse one side printed sheets for reprinting on empty side whenever possible 2. Waste Collection Two separate bins, designated as, Recycling and Dust bins are placed in all departments as well as prominent places like canteen, auditorium and quadrangle. People managing the bins will be educated about recyclable and non recyclable waste Information about the recyclable and non recyclable waste is displayed in digital boards as well as stickers or banners in each department, canteen, quadrangle and auditorium. Each department is given with three to four big cement bags for waste segregation and collection. Following types of waste should be collected separately in those bags. a) All types of plastic (bottles, covers, containers, pens, Refills etc.) b) All types of paper waste(not contaminated with food) c) Thermocol and non recyclable waste(non bio degaradable)(chocolate and biscuit wrappers, tea cups(if any), lays covers, etc) d) Pool glass bottles separately. Existing cement bins may be used for disposing bio degradable waste like food contaminated paper, banana leaf, leftover food in functions and fallen leaves. Five plastic drums are kept during programmes for collecting food waste, plates etc (biodegradable waste). Proposed to establish E-waste collection room. All used bulbs, tube lights, wires, computers etc should be stored in the designated room. A Nonteaching staff should be designated as coordinator in every department to monitor the

waste management activities 4. Waste Disposal A garbage collector will be identified who will collect recyclable waste at the end of every month or people from cleaning department may sell the recyclable waste they collected in their respective departments. Two separate ground pits is being maintained for filling biodegradable and non biodegradable waste.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. Title of the Best Practice 1: M-Foundation Award Objectives of the Practice: To financially support economically weaker students to complete their course without hassles The Context: The college is admitted with many meritorious rural students. Students from this background are economically weak as their parents' income is very low. Due to these constraints, students sometimes could not able to complete or continue their studies from first to final year. The Practice: The meritorious students with this background are identified and they are financially supported by a team of alumnus of the college under the scheme, called M-Foundation award. The facility is also extended to the wards of D group employees of our college Evidence of Success: It is observed that the students with this kind of support successfully completed their degree and placed from our institution. Problems Encountered and Resources Required: Sometimes it is difficult in identifying the financial background students who have applied for the M-Foundations awards Notes : Once the list of students, who are in need of M -Foundation award is made, the same is being sent to the alumni association and it is circulated in the alumni network. Individually or team of alumnus come forward and deposit their contributions to the scheme. Title of the Best Practice 2: Paper Seeing Process Objectives of the Practice: To ensure transparency in the valuation of semester end / final examinations answer scripts and to avoid revaluation of scripts. The Context After every semester end examination, there were many students applying for revaluation of their answer scripts with the ambition to get higher marks. This trend was seen both for makeup and supplementary examinations also. It was a laborious process for examination section to complete the revaluation and reannounce the results. The Practice A decision is taken by the administration of our college to stop the revaluation process and to make valuation process more transparent, the paper seeing process is introduced. Under this process, all the students are allowed to see their answer scrips and permitted to write their grievances for their marks to change, based on the scheme of valuation supplied to them. The claimed scripts are again valued/corrected by the respective course faculty and it should be approved in the department academic committee. The modified marks are then submitted to examination section through the proper channel. After this process, results are reannounced. This process is carried out without charging any fee for students. Evidence of Success: It is observed that after introduction of this process, students are happy and have confidence in valuation process. Also, the number of grievances by the students have come down drastically. Problems Encountered and Resources Required: Since examination section has large number of answer scripts , they need to be dispersed to the respective departments for paper seeing. Searching the papers is tedious task since scripts are coded booklets.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

https://www.mcehassan.ac.in/admin/storage/mce-mandatory-disclosures-files/July2022/fB9gVVzBvNJv9NX4m0o6.pdf

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

The institution is focusing on the overall development of the student community in addition to technical education. A dedicated yoga and "Dhyna Mandir", a meditation centre, is in the campus of the MCE. This facility is helping the students to develop their sound body and mind. Many programs are being conducted by the center for the faculty and students of MCE. The centre is also open for public. Many people in the vicinity of the college participate in the yoga and other programs being conducted by the centre and taking all benefits out of it. The center is also organising programs like 'Diksuchi' which helps the first-year students during induction program. The institute and Red Cross, Hassan wing, regularly organise blood donation camps where in students and faculty of Malad college of Engineering enthusiastically participate and plentiful blood sachets are donated to the needy and blood banks of the city of Hassan. Further, the meritorious students with economically weaker section are identified and they are financially supported by a team of alumnus of the college under the scheme, called M-Foundation award. The facility is also extended to the wards of D group employees of our college. In toto, the institute is working all round development of the society. Under Unnath Bhrarth Abhiyan program, the institute has adopted few villages for technical support and developmental activities. Also, NSS wing of the college actively involved and contributing their services in the villages around the college.

Provide the weblink of the institution
https://www.mcehassan.ac.in/admin/storage/mce-mandatory-disclosures-files/July2022/RARweKdzwiJYw2ZmCSaq.pdf

8.Future Plans of Actions for Next Academic Year

The institution is being assisted with TEQIP funds. Many academic and procurement plans have been made for the next academic year, 2019-20. To nurture the students and faculty of the college, plentiful training programs have been planned under various engineering domains. Engineering departments proposed to organize workshops, seminars, national and international conferences, faculty development programs etc., during next academic year. Due to obsolescence, almost all engineering department's different laboratory equipments/ instruments are being replaced with state of art technology. To name a few, department of Mechanical engineering has planned to procure new CNC turning and vertical machining centers to develop center of excellence in the manufacturing area, Civil Engineering department has plans for new equipments for material testing laboratory, Industrial and Production engineering department planned for 3D printing facility for composite material and so on. The institution has proposed to strengthen the ICT facilities for all the classrooms and seminar halls by adopting digital boards/screens. Computers in the department and their centers are planned to upgrade with latest configurations. A new computer center, dedicated to first year engineering CAD, is planned with 150 new machines. Further, to enhance the internet and intranet network speed /facility in the college, the hardwares requirement for the same are also been proposed. The college library is being strengthened with digital library softwares and are being renewed for the next academic years also. Further, the seminar halls of all engineering department are planned for refurbishments with latest audio video facilities.