



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution		MALNAD COLLEGE OF ENGINEERING
Name of the head of the Institution		Dr.C.V.Venkatesh
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		08172245317
Mobile no.		9448719949
Registered Email		office@mcehassan.ac.in
Alternate Email		principal@mcehassan.ac.in
Address		PO Box 21, Salagame Road
City/Town		Hassan
State/UT		Karnataka
Pincode		573202
2. Institutional Status		

Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Urban
Financial Status	Self financed and grant-in-aid
Name of the IQAC co-ordinator/Director	Dr.N.S.Jyothi
Phone no/Alternate Phone no.	08172245093
Mobile no.	7019351627
Registered Email	iqac@mcehassan.ac.in
Alternate Email	nsj@mcehassan.ac.in

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/mce_iqac_details.php

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	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
Ensuring quality In Engineering Education	22-Nov-2021 1	40
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8. Provide the list of funds 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	National Project Implementation Unit, MHRD, New Delhi.	2019 1460	75000000
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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 :

1

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)

Academic audit: A committee is formed to perform internal academic audit, headed by the Chairperson of IQAC. Senior Professors 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. The academic audit for 201920 is performed by the external expert virtually due to pandemic conditions. It is performed for all the engineering departments and the basic sciences. Various aspects like teachinglearning, curriculum development, research development, feedback system, mentoring and so on was covered under this audit. Further, each department is informed to provide external auditors for evaluating the continuous internal evaluation (CIE) question papers. Different criteria such as CO mapping, Blooms levels, coverage of all COs and Blooms levels in the paper and overall quality of question paper are evaluated by the external subject/course expert. Based on the comment made by the expert, appropriate action is taken by the administration. Data collection for NIRF / NBA/ NAAC: The cell is dedicated to collect various

data from all corners of the institute to upload the same for NIRF / NBA/ NAAC formats.

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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	Achievements/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
Framing of curriculum focusing more on skill development	To enhance skill-based training for the students, many courses in different programs are embedded with laboratory components. The students are trained both in theory as well as practical sessions under these courses. This approach has helped the students to understand and learn the concepts comprehensively.
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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
Board of Governess	19-Mar-2022

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 description and a list of modules currently operational (maximum 500 words)	<p>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</p>

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 students). 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 Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

Malnad College of Engineering is an autonomous college, affiliated to Visveswaraya Technological University. The syllabi of various programs are revised by the concerned Board of Studies and approved by the Academic Council. The admission and evaluation processes are followed according to the norms and rules prescribed by the University. Dean, Academics affair, prepare academic calendar of the institute and the copies are circulated to all Heads of the Department. Heads of the Department organize the meetings of the faculty

members of the department, in which the academic planning, review of the result of previous examinations, activities to be carried out along with evaluation process are discussed. All the subjects/courses are developed having relevance to local, national and global developmental needs. Every program presents program outcomes, program specific outcomes, which in turn are in tune with the mission statements of the institution and carries course outcomes of each course. Curriculum is frequently revised by conducting regular meeting of Board of studies, Industrial Advisory Board and Department Academic Committee.

Syllabi is upgraded keeping in view, the advancement in technology and requirements of employers. An effective implementation of this Outcomes Based Education (OBE) ensures that our graduating engineers have all the 12 POs and program specific outcomes (PSOs) to compete on a global platform and to have expected global attributes. The course faculty maps the COs to POs on three mapping levels - strongly correlated, moderately correlated and slightly correlated i.e., 3, 2 and 1 respectively. This is defined in the course articulation matrix for every course by the faculty. Faculty delivers curriculum by using various teaching methods and teaching aids. Faculty members prepare their own teaching plans accordingly and the record of it is maintained in their portal. Library resources like textbooks, reference books, periodicals, e-journals and other e-learning resources are provided to the students. Faculty members of the institute use ICT tools for comprehensive teaching and learning. The institute has installed LCD projectors in all classrooms for effective teaching learning process. Various departments of the institute organize Conferences, workshops, seminars etc. to update the knowledge of students and the faculty. Faculty members are also deputed to attend Seminars, workshops, faculty development programs and conferences, conducted by the various institutes and organisations to enlighten their knowledge in respective domain. Students and faculty are also exposed through guest lectures, project-based learning, study tours, surveys, field and industrial visits, etc. to help in effective implementation of the prescribed curriculum.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
FUSION-360	Nil	18/02/2019	5	Product design and manufacturing	helps the students of Mechanical and Industrial Production engineering departments on AUTODESK AUTOCAD and DIGITAL PROTOTYPING using AUTODESK INVENTOR
SALES FORCE DEVELOPER 402	Nil	09/09/2019	5	Aims at creating a more employable and industry-ready	Nil

Revit Architecture	Nil	19/05/2019	5	workforce the students of Civil engineering departments on Revit Architecture	Nil
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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
No Data Entered/Not Applicable !!!		
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Civil Engineering	01/07/2007
BE	Mechanical Engineering	01/06/2015
BE	Electrical and Electronics Engineering	01/06/2007
BE	Electronics and Communication engineering	01/07/2015
BE	Computer Science	05/06/2015
BE	Electronic Instrumentation	01/06/2007
BE	Industrial & production Engineering	01/07/2007

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	148	Nil

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
No Data Entered/Not Applicable !!!		
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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	Mechanical Engineering	65
BE	Electrical and Electronics Engineering	12
BE	Electronics and Communication Engineering	112

BE	Industrial and Production Engineering	40
BE	Electronics and Instrumentation Engineering	54
BE	Computer Science	70
BE	Information Science	54
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	No
Alumni	Yes
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
<p>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</p>

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	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	CV	180	170	170
BE	ME	180	166	166
BE	EE	120	126	126
BE	EC	90	97	97
BE	AU	60	35	35
BE	IP	60	31	31
BE	EI	60	49	49
BE	CS	180	192	192
BE	IS	60	63	63
Mtech	IAR	18	5	5

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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
2019	2940	0	170	0	170

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	Number of smart classrooms	E-resources and techniques used
170	170	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 advise the students in choosing suitable electives, swayam courses, and course registration and withdrawal of the courses. The faculty advisor keeps track of the activity points, swayam courses, and internships are done by students. The 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. a mentor gives the 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
2940	170	1:17

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
260	170	Nil	18	76

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	Karnataka State Council for Science and Technology
2019	Prof. KS Manjunath	Professor	Karnataka State Council for Science and Technology
2019	Dr. Shashank Lingappa M	Assistant Professor	VTU Competitive Research Grant
2020	Dr. Jeevan TP	Associate Professor	International Nanotribology forum Travel Grant
2020	Dr. Gopi K R	Assistant Professor	Postdoctoral Fellowship, Northwestern polytechnical university, Xian china
2020	Dr.T.P. Jeevan	Associate Professor	Research Grant, VGST –GOK
2020	Dr.Geetha Kiran A	Professor	Most Influential Educational Leadership Award, Golden AIM awards

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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/E E/EC/EI/CSE/ISE	I SEMESTER	08/12/2018	08/01/2019
BE	CV/ME/IP/AU/E E/EC/EI/CSE/ISE	II SEMESTER	13/05/2019	08/06/2019
BE	CV/ME/IP/AU/E E/EC/EI/CSE/ISE	III SEMESTER	02/01/2020	20/01/2020
BE	CV/ME/IP/AU/E E/EC/EI/CSE/ISE	IV SEMESTER	Nill	Nill
BE	CV/ME/IP/AU/E E/EC/EI/CSE/ISE	V SEMESTER	01/01/2020	20/01/2020
BE	CV/ME/IP/AU/E E/EC/EI/CSE/ISE	VI SEMESTER	Nill	Nill
BE	CV/ME/IP/AU/E E/EC/EI/CSE/ISE	VII SEMESTER	01/01/2020	20/01/2020
BE	CV/ME/IP/AU/E E/EC/EI/CSE/ISE	VIII SEMESTER	10/09/2020	14/09/2020

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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

Each department of Malnad college of Engineering implements the curriculum framed by the board of studies of various engineering branches. According to the process of evaluation of a course, Continuous Internal Evaluation (CIE) is to be performed. The schedule of all internal assessment is announced by the college and all departments strictly adhere to it. The timetable is prepared by Dean -examination in consultation with dean academic and Principal. The same is announced in all departments notice boards. The department in turn prepares and announces the Continuous Internal Evaluation time table, indicating the time slot for each course. Each course faculty will announce the syllabus for the CIE and prepares the question paper. A committee in the department scrutinizes all CIE papers. After the CIE, course faculty evaluates all answer scripts and share with students. The faculty discusses the scheme solution of all questions in the classroom. Each student affixes his/her signature in their answer scripts, after checking the marks awarded. The marks of all students are uploaded in the college website within a week after the CIE, so that students can check their marks. THREE internal tests are conducted for a total of 40 marks and activities are conducted for 10 marks. The activities include project assignment, seminar on current topics, theory and practical assignments. An autonomy is given to faculty and encouraged them to carry out innovative activities which leads to project-based learning. A separate rubric is also designed to evaluate the different activities for various courses.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

Institution prepares the academic calendar as per the scheduled prescribed by Visveswaraya Technological University, Belgaum for implementation of curriculum and participation in co-curricular activities. The academic calendar is prepared by Dean-Academics in consultation with the Principal and Dean-examination. The calendar adheres to available working days for the semester

including the dates of first and last working days. The calendar includes dates of course registration, national public holidays, dates of continuous internal evaluation examination, period of semester end examination, practical examination and so on. Further, the calendar earmarked with curricular and extra-curricular activities days/dates. The opening day of the semester is decided by considering the results announcement of the previous semester, makeup examination supplementary semester dates. Now, to make up the days lost due to COVID-19, the semester duration is reduced to 14 weeks. The THREE tests were scheduled on 5th, 9th and 13th week of a semester. The date on which students must give both faculty course feedback is also mentioned in the calendar. The dates for final theory practical examinations are also specified in the calendar. The calendar is shared with all departments students. All academic activities are performed strictly in accordance with the academic calendar only. The department also prepares a calendar using the college calendar. This indicates the dates for assessment dates of all course for a semester. The course faculty plans the delivery assessment of his course before the semester begins. This is shared with head of the department students. Thus, students know the plan of the course and the assessment activities of each course in the beginning of the semester.

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/mce_igac_details.php

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
CV	BE	Civil Engineering	77	77	100
ME	BE	Mechanical Engineering	96	92	96
EE	BE	Electrical & Electronics Engineering	44	44	100
EC	BE	Electronics & Communication Engineering	104	104	100
AU	BE	Automobile Engineering	42	42	100
IP	BE	Industrial Production and Engineering	36	35	97
EI	BE	Electronics and Instrumentation	47	46	98

		Engineering			
CS	BE	Computer Science and Engineering	67	67	100
IS	BE	Information Science and Engineering	30	30	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/mce_igac_details.php

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

3.1.1 – 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
Interdisciplinary Projects	365	VGST	3	3
Students Research Projects (Other than compulsory by the University)	365	VTU TEQIP CELL	2	2
Major Projects	1825	DST FIST	32	32
Major Projects	1000	AICTE	14	14
Major Projects	730	AICTE	6	6
Interdisciplinary Projects	365	VTU TEQIP CELL	1.3	1.3
Projects sponsored by the University	365	MHRD	1	1
Projects sponsored by the University	365	New age Innovation Network	12	12
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3.2 – Innovation Ecosystem

3.2.1 – 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
Sales Force Developer 402	MeRiise	09/09/2019

Fusion 360	MeRiise	18/02/2019
Revit Architecture	MeRiise	19/05/2019
Recent Developments in Renewable Energy Sources and Conversiton Systems for On/Off Grid Applications	EE	09/12/2019
Smart Grid and Smart City: Recent Trends	EE	08/07/2019
Two days workshop on "Entrepreneurship"	MeRiise	09/11/2019
Start-Up and Entrepreneurship	MeRiise	14/08/2019
Workshop on Entrepreneurs hip	MeRiise	14/08/2019
My Story- Entrepreneur's life and crossroad - Motivational Speak	MeRiise	07/09/2020
My Story- Innovators's life and crossroad - Motivational Speak	MeRiise	16/12/2020
Need for Technical Skills and Personality Development in Engineers	MeRiise	01/03/2019
BOOT CAMP	MeRiise	14/09/2019

3.2.2 – 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
Most Influential Educational Leadership Award	Dr.Geetha Kiran A	Golden AIM awards	03/07/2020	Leadership
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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
MERIISE	MERIISE	MCE	Developers	Designing web-based platforms for various applications , imparting coding knowledge to carryout real time projects	03/02/2020
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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
No Data Entered/Not Applicable !!!		

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
Mechanical Engineering	3
Electronics and Communication Engineering	4
Civil Engineering	1

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Mechanical Engineering	20	3
International	Computer Science and Engineering	22	2
International	Electronics and Communication Engineering	7	2
International	Electrical and Electronics Engineering	18	4
International	Electronics and Instrumentation Engineering	4	0.5
International	Industrial and Production Engineering	8	2
International	Information Science and Engineering	2	1
International	Mathematics	8	2
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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Electronics and Instrumentation Engineering	1
Electronics and Communication Engineering	10
Computer Science and Engineering	3
Mechanical Engineering	2
View File	

3.3.5 – 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
Nill	Nill	Nill	2019	Nill	Nill	Nill
View File						

3.3.6 – 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
Influence of ageing on kinetics and strain hardening behaviour of duplex stainless steels	Nithin HS Vasanth S, Krishna H, Sonnappa D, and Kataraki	Emerging Materials Research	2019	7	1	Malnad College of Engineering
High Temperature Oxidation and Corrosion Behaviour of APS CoCrAlY Cr3C2-NiCr Composite Coating	H. S. Nithin	Journal of Bio-and Tribo-Corrosion	2020	18	0	Malnad College of Engineering
"Dry sliding wear behaviour of short Carbon fibre reinforced aluminium matrix composites"	Nithin Kumar, Ezhil Vannan.S	Journal of Critical Reviews	2020	12	0	Malnad College of Engineering
Influence of Multiaxial Cryoforging on Micro structural, Mechanic	K.R. Gopi	Journal of Materials Engineering and Performance	2019	65	0	Malnad College of Engineering

al, and Corrosion Properties of Copper-Titanium Alloy						
Studies on Drilling AISI 316L Using Formulated Pongam oil as Straight Cutting Fluid	H J Amarendra Y M Shashi dhara	Applied Mechanics and Materials	2019	33	1	Malnad College of Engineering
Slurry Jet Erosion Test Rig: A review of Erosive Particles Induction Methods and Its Test Parameters	Karthik S, Amarendra H J	Journal of Bio-and Tribo-Corrosion	2020	18	0	Malnad College of Engineering
Characterization of cellulosic fibre from Phoenix pusilla leaves as potential reinforcement for polymeric composites	P. Madhu, S. Pradeep, B. Yogesha	Journal of Materials Research and Technology	2019	44	21	Malnad College of Engineering
Enhancement of surface properties of austenitic stainless steel by nickel based alloy cladding developed using	Shashank Lingappa, Srinath	Materials Chemistry and Physics	2020	152	0	Malnad College of Engineering

microwave energy technique						
Strength enhancement of magnesium alloy through equal channel angular pressing and laser shock peening	K.R. Gopi	Applied surface science	2020	188	1	Malnad College of Engineering
Impact of ECAP on wear performance of Al-Mn magnesium alloy	Gopi KR	Materials research Express	2020	35	1	Malnad College of Engineering

[View File](#)

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

Number of Faculty	International	National	State	Local
Presented papers	21	Nil	Nil	Nil

[View File](#)

3.4 – Extension Activities

3.4.1 – 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
Covid-19 Vaccination Awareness Programme	NSS	2	104
Programme Shramadana	NSS	3	146
Felicitation Programme to Corona Warriors	NSS	3	130

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3.4.2 – 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
Student Project Program	Karnataka State Council for Science	Karnataka State Council for Science	4

	and Technology	and Technology	
Student Project Program	Karnataka State Council for Science and Technology	Karnataka State Council for Science and Technology	4
Inter-collegiate zonal tournament (Basketball)	Basketball	VTU	1
Pragyatha-19	State level Entrepreneurial fest	Non-Government	1
No file uploaded.			

3.4.3 – 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 activities	Number of students participated in such activities
Swacha Bharath	NSS	Shramadana	3	146
Covid-19 Vaccination Awareness Programme	NSS	Covid-19 Vaccination Awareness Programme	2	104
No file uploaded.				

3.5 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
No Data Entered/Not Applicable !!!			
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3.5.2 – 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
No Data Entered/Not Applicable !!!					
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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
ICT Academy	01/07/2019	Training Students	173
Atal Incubation Centre, Jyothy	01/06/2019	Sharing Facilities and	120

Institute of technology		training	
Alvas Institute of Engineering and Technology	11/06/2019	Research	10
Fluxgen Engineering Technologies. Pvt.,	17/02/2020	To promote academic exchanges and develop academic collaborations for mutual benefit to their students Institutions	20
National Highway Authorities of India (NHAI)	01/07/2020	Facilitate faculty, researchers, and students of MCE to access the NHAI sites Exchange of research outputs Creation of Lab infrastructure at MCE Internship opportunities for 25 UG / 05 PG students with stipend of 6500 INR pm for UG and 8000 INR pm	52
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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
165	152

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Class rooms	Existing
Campus Area	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	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

during the current year	
Classrooms with Wi-Fi OR LAN	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	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
Easylib	Fully	6.4 (a)	2013

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
	Nil	Nil	Nil	Nil	Nil	Nil
e-Books	Nil	Nil	Nil	Nil	Nil	Nil
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
No Data Entered/Not Applicable !!!			
View File			

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	711	53	42	30	104	50	432	100	0
Added	115	0	0	0	0	0	115	100	0
Total	826	53	42	30	104	50	547	200	0

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

100 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
MCE	www.maheshmechanical.com

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	Expenditure incurred on	Assigned budget on	Expenditure incurred on
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academic facilities	maintenance of academic facilities	physical facilities	maintenance of physical facilities
310	240.42	80	74.77

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, provide link)

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/mce iqac_details.php

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	Fee Concision Scheme Renewal and	13	233380

	Fresh merit Scheme		
Financial Support from Other Sources			
a) National	Karnataka scholarship scheme	276	2947470
b) International	Nil	Nil	Nil
View File			

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 implementation	Number of students enrolled	Agencies involved
Sales Force Developer 402	09/09/2019	35	ME-RIISE
BOOT CAMP	14/09/2019	210	NAIN
Start-Up and Entrepreneurship	14/08/2019	500	College
Need for Technical Skills and Personality Development in Engineers	01/03/2019	53	ME-RIISE
Fusion 360	18/10/2019	53	ME-RIISE
Cloud Literacy Day v- 19	31/10/2019	60	ME-RIISE
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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 passed in the comp. exam	Number of students placed
2019	Xeligent 19SSK Grammar and Social skills	1016	908	Nil	Nil
View File					

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
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Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Reputed Companies	562	270	Nil	Nil	Nil
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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	Department graduated from	Name of institution joined	Name of programme admitted to
2019	1	Nil	Nil	Nil	Nil
2019	1	Masters in Informatics	Computer Science	Vilnius University	Masters in Informatics
2019	1	LOGISTICS AND SUPPLY CHAIN MANAGEMENT	MSc Logistics and supply chain management	University of Portsmouth, UK	MSc Logistics and supply chain management
2019	1	Chemnitz University of Technology, Germany	Mechanical Engineering	Chemnitz University of Technology, Germany	Masters in Advanced Manufacturing
2019	1	University RENNES	MaMaSELF	MaMaSELF, University RENNES 1, France	Master in Materials Science
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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
GATE	4
Any Other	12
TOFEL	1
View File	

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

Activity	Level	Number of Participants
VTU Inter-collegiate Rest of Bangalore Zone Hand Ball Tournament (W)	College Level	12
MCE College organized Annual Athletic	College Level	38
No file uploaded.		

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	VTU zonal level	National	15	Nil	Nil	Nil
2019	Individual Event (Shot Put)	National	1	Nil	4MC17CS001	Aafthab. N.T
2019	Individual Event (Mimicry)	National	Nil	1	4MC18ME111	Sachin .S
2019	University of Calicut Kerala (Hand Ball)	National	1	Nil	4MC18CS073	Navya B.H
2019	Lovely Professional University Phagwara Punjab (Swimming)	National	1	Nil	MCE18MAR02	Aishwarya Manjunath
2019	Annamalai University Tamil Nadu (Net Ball)	National	1	Nil	4MC17IP003	Ananya A. Bidare

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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/magazines 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?fileismenunews_letters
 tableis_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 College of Engineering has a very strong alumni networks. Many of the alumni being in higher positions in government as well as private sector have contributed a lot to the college and are contributing. Some of the countable contributions include the amphitheatre, scholarships and laptops to the meritorious students and other merit prizes. Amphitheatre was much needed for the college organising alumni meet at various locations across the globe, fund raising was done and through the continuous and tireless efforts of the alumni, today we have version 1 of the theatre, where students can perform during various college tests. This will be extended in future for facilities like coffee shop, seminar hall etc. Scholarships and laptops are being sponsored by different alumni group (for ex. 1989 Mechanical Batch). This motivates the current students perform better, academically.

5.4.2 – No. of enrolled Alumni:

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

628940

5.4.4 – Meetings/activities organized by Alumni Association :

New Executive Committee/Office bearers of Malnad Alumni Association(MAA) In the general body meeting held on 10/4/2021, new office bearers were nominated for various responsibilities. In order to strengthen alumni network across the country and abroad few alumni from different locations were nominated. In order to follow up the progress of the ongoing project "Alumni Convention Center", few members were included. The new body consists of the following members:
 Chief Patron: Sri Ashok Harnahalli, Honorable Chairman, MTES Mentors: 1. Sri. Ziaulla Sharief 2. Sri. MK G Kumara 3. Sri. Sadiquilla Sohrab 4. Dr. Harry Moraes 5. Sri TAP Nagaraj 6. Dr. Karisiddappa, Honorable VC, VTU President: Dr. C V Venkatesh, Principal, MCE Executive President: Dr. K S Jayantha Secretary: Mr. Mahendra Joint Secretary: Mr. Vivek Gowda Treasurer: Mr. Lakshmeesh Chandra Resident members: 1. Mr. Shivaprasad Shetty 2. Mr. Prakash Pai 3. Mr. A N Tulasi Ram 4. Mr. K R Chandrashekar 5. Mr. D B Hemanth Kumar 6. Dr. K A Venugopal 7. Dr . A Geethakiran 8. Mr. Suhas hedge 9. Mr. Kiran B 10. Mr. Ramprasad Rao 11. Mr. Devanand 12. Mr. Bhandari 13. Mr.Mrs. Sharmila Coelho 14. Mr. Vasanth kumar V NRI Members: 1. Mr. James Mendoca(Dubai) 2. Mr. Narayan Ramanujam (USA) 3. Mrs. Anuradha Choudipura(USA) 4. Mr. Ravi Naik(UK) 5. Mr. Sujith Shetty(Dubai) Media Communication: 1. Mrs. Divya Mutthanna 2. Mr. Shashi Konanur 3. Mr. Arvind Chinnappa Construction Team: 1. Mrs. Sumana Jayaprakash 2. Dr. H S Narasimhan

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 College maintains a decentralisation 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 institution committee comprising of different Deans and HODs. Deans such as dean for academic affairs, dean for student affairs, dean for examination, dean for research and dean for planning and development are designated. All these deans look into the activities corresponding to their institution level responsibilities. Heads of departments would look into the activities under the purview of their department. The college committee develops standard operating procedures and delegates the execution to departments. The department HoD/Coordinators also oversee the departments day-to-day operations and maintains track of the Colleges curricular, cocurricular 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. For instance, students member are included in all the board of studies of every department. Student representation is also made in the academic council of the college. Student council in the college take responsibility to conduct various co curriculum and extra curriculum activities in the college.

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
<p>Curriculum Development</p>	<p>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 ensures 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.</p>
<p>Teaching and Learning</p>	<p>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 embeded 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 interpersonal 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.</p>
<p>Examination and Evaluation</p>	<p>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</p>

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.

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.

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

	<p>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.</p>
Industry Interaction / Collaboration	<p>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.</p>
Admission of Students	<p>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.</p>

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

E-governance area	Details
Planning and Development	<p>The institution strategic planning is done by dean, planning and development. The activities spread over for the year is planned 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 (e-package being adopted/used by the college) 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.</p>
Administration	<p>All the circulars and notices to the departments, staffs and students are sent through e-mails. The details of various aspects from the department is</p>

sent through the mails only. All correspondences from the departments to the administrative office is also made through the e mails or contineo package only. Any data for the universities, NBA, NAAC and other agencies are sent through the in house package 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.

Student Admission and Support

Student admission process is made through continue package 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.

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 day 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.

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
2019	Nil	Nil	Nil	Nil
View File				

6.3.2 – Number of professional development / administrative training programmes organized by the College 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)
No Data Entered/Not Applicable !!!						
View File						

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
No Data Entered/Not Applicable !!!				
View File				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
18	18	22	22

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Employee Provident Fund , Health insurance, Group insurance, Gratuity, Leave Encashment	Employee Provident Fund, Health insurance, Group insurance, Gratuity, Leave Encashment	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 auditors of the institution. Basically, the annual financial plan is made by the college by

taking inputs from the department's budgets. Then, 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 financial committee of the college. Regular financial committee meetings are being held and the objections / issues are resolved accordingly. 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
Malnad Technical Education Society, Hassan.	58530862	Various expenditure of the Institute
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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	Yes	Null	Yes	Institution Committee
Administrative	Yes	Null	Yes	Institution Committee

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

1. Parent Teacher meeting at institution level held on ----- 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. One week Training on Exposure on CNC Lathe, Milling , EDMWrite cut machines at CIPET, Mysore, conducted during 07-01-2019 to 11-01-2019. .

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

1. One day Invited Lecture on Enhancing quality of technical Research for Faculty and Research scholars conducted on 20-03-2019. 2. One day Meeting to Review Compliance for NBA conducted on 20-10-2019. 3. One day Feel teacher program on Developing counselling and Mentoring conducted on 02-11-2019. 4. External Academic audit form 25.12.2020 to 18.01.2020

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	Yes
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
2019	TEQIP	Nil	Nil	Nil	Nil
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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
One day Seminar on Training the proctors for Effective counselling	23/03/2019	23/03/2019	31	0
"One day Others An expert talk on "Capacity Building and Entrepreneurship Development"	12/10/2019	12/10/2019	20	20
One day Feel teacher program on " Developing counselling and Mentoring"	02/11/2019	02/11/2019	38	55
One day Programme on "Matri bhasha Divas"	21/02/2020	21/02/2020	25	33

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
The institution is utilizing renewable energy sources for supplying energy for various applications in the campus. Solar Energy is being harvested in the campus using photovoltaic solar panels. About 125KV roof top solar power generation is installed for the campus power and also the power is being supplied to local grid. Further, solar street lamps are installed in the college campus. Sometimes, bio diesel blends are used for the gensets in the college.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Provision for lift	Yes	0
Ramp/Rails	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
2019	2	2	31/10/2019	3	Role of Engineers in Society Programme	Human Rights and Fundamental Rights	130
2020	2	2	25/11/2020	6	Creating the smart and clean Society through Advance Technology of Green Energy" Programme	Environmental issues	120
2020	1	1	04/04/2020	5	Reach Out Success	life skills	200
2020	1	1	07/11/2020	1	Felicitation programme for corona warriors	social Responsibilities during pandemic situation	35

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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Student Hand Book	12/08/2019	The code of conduct and discipline is realised every year for students and faculty. A hand book for students includes the conduct and disciplinary actions for raging indecent dressing lack of courtesy and decorum, indecent behaviour, damage of any property of college/ hostel, passion are consumption of alcoholic drinks unauthorised possession of library book, disturbing of fellow students, possession of

pornographic contents, sexual harassment and any other actions that damage the college prestige.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
One day Seminar on Training the proctors for Effective counselling	23/03/2019	23/03/2019	31
One day Invited Talk (OBE)	16/03/2019	16/03/2019	36
Six days Others program Art of Living -SELP	18/03/2019	23/03/2019	600
Two days workshop on Igniting young minds	01/10/2019	01/10/2019	60
Three days fest on Five events PRAGYATHA Two days Programme Graduates employability	08/11/2019	10/11/2019	20
Three days workshop on The role of Engineering in Society	31/10/2019	02/11/2019	120
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

The institution is utilizing renewable energy sources for supplying energy for various applications in the campus. Solar Energy is being harvested in the campus using photovoltaic solar panels. About 125KW roof top solar power generation is installed for the campus power and also the power is being supplied to local grid. Further, solar street lamps are installed in the college campus. Sometimes, bio diesel blends are used for the gensets in the college.

The institution is adopting rainwater harvesting method from many buildings. The water collecting from the roofs of different buildings is stored in an underground tank. Also, water generated in the campus is drained to the ground through water ponds made in the campus.

Malnad College of Engineering is blessed with lush green campus with more than 5 acres of forest cover More than 1000 teak trees are planted behind the boys hostel. The fresh make over in the entrance of the college will be welcoming the visitors with beautiful garden. Recently 1972 alumnus batch has donated 50 Kadamba tree saplings whose benefits are mentioned in Indian mythology. An eco park is maintained by students of eco club who also actively take care of the cleanliness of campus. To promote effective waste management, E-waste and recycling bins will be placed in the college canteen. With the continuous effort of students, staff and management, college has maintained an eco friendly environment in the campus

To promote effective waste management, e-waste and recycling bins will be placed in the college canteen.

All the college buildings are fixed with LED bulbs to cut down power and for eco friendly campus

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Title of the Best Practice 1: M-Foundation Award 2. Objectives of the Practice: To financially support economically weaker students to complete their course without hassles 3. 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. 4. 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 5. Evidence of Success: It is observed that the students with this kind of support successfully completed their degree and placed from our institution. 6. Problems Encountered and Resources Required: Sometimes it is difficult in identifying the financial background students who have applied for the M-Foundations awards 7. Note : 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 1. Objectives of the Practice: To ensure transparency in the valuation of semester end / final examinations answer scripts and to avoid revaluation of scripts. 2. 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. 3. 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. 4. 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. 5. 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/mce_igac_details.php

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 working towards helping the society in different ways and has the responsibility to do the same. To name a few, The Chairman and members of the Malnad Technical Education Society, Hassan has donated Rs. 10 lakhs 8.5 lakhs respectively to Prime ministers COVID relief fund and Chief minister COVID relief fund during the pandemic. The college has organised COVID-19 vaccination/jabbing camp for students and public around the college. The students of our college have developed systems to deal with COVID-19 pandemic situation and help the community during this situation. A final year student of Automobile Engineering has developed an AUTOMATIC HAND SANITIZER. It was developed particularly for the Medical crew working in hospitals for quick and easy usage. A team of students from Computer Science and Engineering have developed an app (Application software/package) for the Dept. of police, Government of Karnataka for tracking the COVID-19 infected patients. Further, the institute and Red Cross, Hassan wing, regularly organise blood donation camps where in students and faculty enthusiastically participate and plentiful blood sachets are donated to 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.

Provide the weblink of the institution

https://www.mcehassan.ac.in/mce_igac_details.php

8.Future Plans of Actions for Next Academic Year

1. Administrative building: A new administrative building is planned to construct in the campus, which includes Principal chamber, office of Principal and meeting hall to conduct meeting with Deans and HoDs. Also, the building includes office of various Deans such as Academics, Student Affairs, Research and Dean, planning. A separate wing is constructed for examination section, includes office of Dean, examination, strong room and valuation center ad so on. A separate administrative wing is planned, where the office encompasses of student welfare, accounts section, store section, establishment. A new IQAC office also included in the same building. 2. Classrooms: New classroom buildings in connection with a shortage of classroom rooms, particularly for the first year. Around 10 classrooms are planned to construct in the campus. 3. New courses such as Artificial intelligence machine learning and Computer science and business system are planned to start in the next academic year. A post graduate program, on renewable energy under the department of Electrical Engineering is planned. 4. Few programs, particularly on pedagogical related trainings are planned for faculty.