



Yearly Status Report - 2017-2018

Part A

Data of the Institution

1. Name of the Institution		MALNAD COLLEGE OF ENGINEERING
Name of the head of the Institution		Dr. 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		P.B.No. 21, Salagame Road Hassan
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.G.Shivakumar
Phone no/Alternate Phone no.	08172245317
Mobile no.	6360422389
Registered Email	office@mcehassan.ac.in
Alternate Email	gs@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/admin/storage/mce-mandatory-disclosures-files/July2022/VhaeFX27MzMhVaCAIIVj.pdf

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity	
				Period From	Period To
No Data Entered/Not Applicable!!!					

6. Date of Establishment of IQAC	03-Aug-2017
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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
Preparation for NAAC	01-Aug-2017 6	30

Preparation of AQAR	18-Jul-2017 30	10
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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
Dr.H.S.Mohana	DSTFIST	DST	2017 1096	5000000
Malnad college of Engineering	TEQIP	NPIU-NewDelhi	2017 1096	1770000
Dr.M.S.Srinath	RPS	AICTE	2017 1096	1529000
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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

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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)

Organizing national conference / workshops / symposium Systematic feed back and mentor system

Value based education. Deputing more and more teachers to attend knowledge augmenting programs

Eco friendly activities.

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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.
Faculty development programmes and capacity development programmes on cutting edge technologies.	For the current academic year, many faculty development programs are planned on cutting edge technologies for faculty of all engineering departments. Further, workshops/ seminars/ conferences are planned under capacity development programs for students are also planned.
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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:	No
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)

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 faculty course 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 follow ups done on time are the key features of this function include, a) Set up Mentors and Mentees b) Capture Counselling Notes c) Set up Follow up dates for Counselling d) Review of complete IA and Attendance of student e) Provision of sharing of selective Counselling 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 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, counsellor 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 based review for Projects and SEE. 10. Student

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

The curriculum is framed 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. Further, GATE, IEI syllabi and propositions made from alumni are also considered. The curriculum outlined warranties the stakeholders strong claim to be a successful societal member and scholar/ professional/ entrepreneur to get through with their livelihood. The academic flexibility in view of autonomy of the institute ensures in introducing advanced courses as per the trends to make the students be ready with any sort of challenges once they are into the professional field. Courses like Robotics for Engineers, Artificial

Intelligence, Expert Systems, Hydrology and irrigation, Electrical Vehicle Technology, Smart Grid Technologies, Industry 4.0 and IIoT, Python Programming, MEMS, Computer Control of Manufacturing Systems, Managing innovation and so on have been introduced keeping in view of making our students be familiarized with advanced technologies.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employability/entrepreneurship	Skill Development
IoT	NIL	10/07/2017	2	Focus on employability related to Internet of Things	Nil
Artificial Intelligence	NIL	16/02/2018	2	Focus on employability related to Artificial Intelligence	Nil

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	ME -745 Heat Treatment of Steels	30/06/2017
BE	ME 746 Geometric Product Specification	30/06/2017
BE	ME- 751 Data Base Management System	30/06/2017
BE	IOT(EC660)	30/06/2017
BE	CSE-Programming with Python	30/06/2017
BE	CSE-Internet of Things & Applications	30/06/2017
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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) Matrix Methods of Structural Analysis	30/06/2017
BE	(Civil Engineering) Advanced Foundation Design	30/06/2017
BE	(Civil Engineering) Highway Pavement Design	30/06/2017
BE	(Mechanical Engineering) Materials	30/06/2017

	Engineering	
BE	(Mechanical Engineering) Manufacturing Engineering	30/06/2017
BE	(Computer Science Engineering) Advanced DBMS CS762	30/06/2017
BE	(Information Science Engineering) Digital Image Processing - IS791	30/06/2017
BE	(Computer Science Engineering) Bigdata and Hadoop	30/06/2017
BE	(Computer Science Engineering) Storage Area Networks CS862	30/06/2017
BE	(Computer Science Engineering) C# Programming AND .NET CS651	30/06/2017

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

	Certificate	Diploma Course
Number of Students	70	0

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
Enviornmental studies	30/06/2017	629
Professional Skill	30/06/2017	629
Communication skill	30/06/2017	629
Constitution of India and Professional ethics	30/06/2017	629
Communication skills II	30/06/2017	629
INTELLECTUAL PROPERTY RIGHTS	30/06/2017	629
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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	20
BE	Electronics and Communication Engineering	140
BE	Automobile Engineering	40
BE	Industrial & Production	25
BE	Industrial Engineering, 3D printing,	25

	Manufacturing, Design, Modeling & Simulation	
BE	Electronics and instrumentation Engineering	6
BE	Computer science and Engineering	68
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	No
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)

<p>Feedback Obtained</p> <p>The student feedback to assess the performance of the faculty was collected through an online system during the end of each semester. As many as 15 questions were asked to students on the different aspects such as regularity punctuality in taking the class, class preparation, teaching methodology adopted, motivating the students, and availability in the department, etc. The department has set a threshold value of 75 and it was found that very few faculty were below this threshold. The faculty with less than 75 feedback were advised about the improvements to be made in their teaching-learning methodology to be more effective in the upcoming semester. During the personal interaction with faculty having less scoring, they assured that they will put extra efforts to improve their short comings and follow proactive methods to make students to understand the concepts in a better manner. Faculty with highest feedback percentage were honoured with certificate of appreciation. The department collects feedback on curriculum aspects and courses from different stakeholders such as students, alumni, industry experts. Once the feedback is analysed and valuable suggestions given were considered and necessary actions were executed. The course feedback is collected from the students to evaluate the understanding of the course content by the students using an online system during the end of each semester. As many as 18 questions about the course such as suitability and relevance of content, facilities and equipments for content delivery, analytical and problem-solving skill, and content relevance to present day context, etc. were asked. The collected feedback will be handed over to the respective course faculty for analysis. Further, the revised course contents were approved by the BOS. The exit feedback will be collected by the outgoing students every year. The students were asked to give their feedback on faculty/ staff, courses, infrastructure, support system, and placements, etc. As per the exit feedback survey most of the students rated from Very Good to Excellent for most of the criteria. In the exit feedback some of the students suggested to introduce new courses on advanced topics and Entrepreneurship development and to improve the training facilities in the department. New courses on advanced topic such as Fundamentals of Industry 4.0 and Industrial IoT, Concurrent Engineering, Electric Vehicle Technology, Lean Manufacturing, Machine Learning with Python, Micro-Electromechanical System, Financial Management and Costing, Occupational Health and Safety Engineering were</p>

introduced during curriculum design for next academic year. To enhance the technical skill to the student's in-house internship programs have been introduced.

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	Civil Engineering	60	75	69
BE	Mechanical Engg.	120	120	115
BE	Electrical & Electronics Engineering.	60	78	61
BE	Electronics and communication Engineering	90	100	92
BE	Automobile Engineering	60	75	60
BE	Industrial & Production Engineering	60	50	44
BE	Computer science and Engineering	60	72	72
BE	Electronics and & Instrumentation Engineering	60	66	62
BE	Information scince &Engeering	60	68	63

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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
2017	3485	56	163	8	171

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	Number of	ICT Tools and	Number of ICT	Numberof smart	E-resources and
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Teachers on Roll	teachers using ICT (LMS, e-Resources)	resources available	enabled Classrooms	classrooms	techniques used
111	100	170	30	18	2

[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 registration 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
188	171	Nil	7	45

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
2017	Dr. Shashidhara Y M	Professor	Best project award instituted by karnataka state council for science and technology, Bangalore
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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/EC/EE/AU/IP/CS/EI/IS	1 Semester	17/11/2017	06/01/2018
BE	CV/ME/IP/AU/EE/EC/EI/CSE/ISE	II SEMESTER	06/04/2018	02/07/2018

BE	CV/ME/IP/AU/E E/EC/EI/CSE/ISE	III SEMESTER	11/12/2017	06/07/2018
BE	CV/ME/IP/AU/E E/EC/EI/CSE/ISE	IV SEMESTER	04/06/2018	02/07/2018
BE	CV/ME/IP/AU/E E/EC/EI/CSE/ISE	V SEMESTER	11/12/2018	06/01/2018
BE	CV/ME/IP/AU/E E/EC/EI/CSE/ISE	VI SEMESTER	02/06/2018	02/07/2018
BE	CV/ME/IP/AU/E E/EC/EI/CSE/ISE	VII SEMESTER	11/12/2018	06/01/2018
BE	CV/ME/IP/AU/E E/EC/EI/CSE/ISE	VIII SEMESTER	02/06/2018	02/07/2018
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

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. 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 affix 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.

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

The calendar of the university is used as a reference. The opening day of the semester is decided by considering the results announcement of the previous semester, makeup examination supplementary semester dates. THREE continuous Internal Evaluation (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 academic calendar is prepared by Dean-Academics in consultation with the Principal Dean-examination. 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/admin/storage/mce-mandatory-disclosures-files/December2022/S9A16oQytLJsw961bjPN.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
CV	BE	Civil Engineering	73	73	100
ME	BE	Mechanical Engineering	118	117	99
EE	BE	Electrical & Electronics Engineering	108	107	99
EC	BE	Electronics & Communication Engineering	60	60	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/October2022/100qOUEAJIVDAXaZUf62.pdf>

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
Students Research Projects (Other than compulsory by the University)	180	Karnataka State Council for Science and Technology	3500	3500
Any Other (Specify)	1725	DST-FIST	150	50
Any Other (Specify)	1350	TEQIP III	17.7	17.7
Any Other (Specify)	1350	AICTE	15.29	15.29
Any Other (Specify)	365	KSCST	0.08	0.08

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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
Alternate Building Technologies and Green Buildings	Department of Civil Engineering	23/03/2017
Sustainable Buildings	Department of Civil Engineering	03/05/2018
"Artificial Intelligence"	Mechanical Engineering	16/09/2018
"Exposure on plastic product development and Engineering	Mechanical Engineering	24/03/2018
K.P.C.L. Sharavathi, Supa Power House, factory Automobile Corporation Goa limited.	Mechanical Engineering	25/03/2018
"Reach out Success" (ROS-18)"	Mechanical Engineering	04/04/2018
"Application of Finite Element Analysis in Industrial Product Design"	Mechanical Engineering	05/04/2018
"Emerging trends in Mechanical Engineering"	Mechanical Engineering	06/04/2018
"Yoga - Mind and Body Management"	Mechanical Engineering	24/04/2018
"Foundations of Robotics, Automation and Finite Element Analysis"	Mechanical Engineering	25/04/2018
"Skill development on Press Tool Design"	Mechanical Engineering	26/04/2018
"Professional and Personality Development(PPDP)"	Mechanical Engineering	27/04/2018
" Thermo-mechanical Simulator"	Mechanical Engineering	17/07/2018
"Research perspectives and opportunities"	Mechanical Engineering	17/07/2018
"Skill Development on Press Tool Design"	Mechanical Engineering	30/07/2018
Recent developments in solar and wind energy system for on/off grid applications	Electrical and Electronics Engineering Electrical Electronics Engineering	09/07/2018
Computation and Real Time Analysis of Systems Using MATLAB XILINX	Electrical and Electronics Engineering	16/07/2018

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
NIL	NIL	NIL	Nil	NIL

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3.2.3 – 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
NIL	NIL	NIL	NIL	NIL	Nil

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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
3	3	1

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

Name of the Department	Number of PhD's Awarded
Electrical and Electronics Engineering	1
Mechanical Engineering	3
Computer science and engineering	12

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	Automobile Engineering	1	Nil
International	Electronics and Instrumentation Engineering	1	Nil
National	Mechanical Engineering	14	2.25

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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
Mechanical Engineering	1
Electronics and communication Engineering	8
Automobile Engineering	2
Electronics and Instrumentation Engineering	2

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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
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NIL	NIL	NIL	Nil	Nil	NIL	Nil
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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
An experimental investigation to find the critical (coupling) temperature in microwave hybrid heating of bulk metallic materials.	Lingappa, S. M., Srinath, M. S., Amarendra, H. J	Materials Research Express	2017	43	2	Malnad College of Engineering,
Melting of bulk non-ferrous metallic materials by microwave hybrid heating (MHH) and conventional heating: a comparative study on energy consumption.	Lingappa, S. M., Srinath, M. S., Amarendra, H. J	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2018	44	1	Malnad College of Engineering,
Characterization and properties of natural fiber polymer composites: A comprehensive review.	Sanjay, M. R., Madhu, P., Jawaid, M., Senthamarai kanna, P., Senthil, S., Pradeep, S	Journal of Cleaner Production	2018	200	10	Malnad College of Engineering,
Effect of ceramic reinforcement on mechanical	Kumar, V. M., Venkatesh, C. V.	Materials Today: Proceedings	2018	56	1	Malnad College of Engineering,

properties of aluminum matrix composites produced by stir casting process.						
Hybridization effect of sisal/glass/epoxy/filler based woven fabric reinforced composites . Experimental Techniques, 41(6), 577-584.	Yogesha, B et, al	Experimental Techniques	2017	37	4	Malnad College of Engineering,
Studies on hybridization effect of jute/kenaf /E-glass woven fabric epoxy composites for potential applications: Effect of laminate stacking sequences	Yogesha, B et, al	Journal of Industrial Textiles	2017	43	6	Malnad College of Engineering,
A review on synthesis and characterization of commercially available natural fibers: Part-II.	Madhu, P., Sanjay, M. R., Sentharamaikanna, P., Pradeep, S., Saravanakumar, S. S., Yogesha, B	Journal of Natural Fibers	2017	37	10	Malnad College of Engineering,

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	7	1	0	0
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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
Volunteer Blood Donation Camp	Youth Red Cross Wing, MCE, Hassan	3	82
Volunteer Blood Donation Camp	Youth Red Cross Wing, MCE, Hassan	3	92
Volunteer Blood Donation Camp	Youth Red Cross Wing, MCE, Hassan	3	37
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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
under graduate project	Best project award	Karnataka state council for science and technology, Bangalore 4	4
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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
Swachh Bharat Mission	NSS , Malnad College of Engineering, Haassan	Campus Cleaning	2	40
National savings scheme	NSS , Malnad College of Engineering, Haassan	Awareness on Blood donation camp.	2	78
Swachh Bharat Mission	NSS , Malnad College of Engineering, Haassan	Shramadana and plantation programme.	2	60
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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
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CNC programming and operation skills (MCE)	Shashikumar kallappa Aravatti (4MC15ME101)	Self	20
Hands-on training on CNC turning and milling machine operations (MCE)	Shivaprasad R (4MC14ME099)	Self	30
CNC programming and operation skills (MCE)	Shreenath (4MC15ME104)	Self	30
CNC programming and operation skills (MCE)	Puneeth S U (4MC16ME076)	Self	30
CNC programming and operation skills (MCE)	Ranjan K (4MC16ME083)	Self	30
CNC programming and operation skills (MCE)	Siddesh K A (4MC16ME097)	Self	30
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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
Project work	Project work	1991 batch MCE Allumnis-IoT lab establishment support for student projects	04/03/2017	30/12/2018	28
Internship	Project work	Hamshine Electronics and Energy systems, Hassan	01/01/2017	30/12/2018	15
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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
Advanced Electronics Technologies	07/11/2018	industry visit, Internship, project guidance	20
Reverie Language	04/04/2018	Project Guidance	10

Technologies Private Limited			
Prakash Sponge iron and power Private Limited	02/06/2018	Industry visit, Internship	50
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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
145	83.73

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Seminar halls with ICT facilities	Newly Added
Campus Area	Existing
View File	

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 partially)	Version	Year of automation
Easylib	Partially	4.3.3	2013

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Others(s pecify)	52309	6872762	1802	891990	54111	7764752
Others(s pecify)	10576	1489502	80	39600	10656	1529102
Others(s pecify)	24137	4844188	167	90000	24304	4934188
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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
Nil	Nil	Nil	Nil
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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/	Others
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								GBPS)	
Existing	584	540	5	0	10	12	17	100	0
Added	16	10	2	2	0	2	0	0	0
Total	600	550	7	2	10	14	17	100	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
Nil	Nil

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 incurred on maintenance of physical facilities
60	65.41	315	292.77

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. Classrooms: Classrooms are allocated to all departments along with necessary ICT tools. The classrooms are utilized as per the timetable 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/December2022/7nKk0rzb5AYI0uNXEeRO.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	SSP, NSP	19	298846
Financial Support from Other Sources			
a) National	M - Foundation Scholarship	6	120000
b) International	Sarandeep Singh Memorial Scholarship	1	19090

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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
Aptitude Skills Development	01/06/2017	550	FACE
IOT and its Application	30/04/2018	70	TEQIP
Three days training on Hydraulics and pneumatics	27/02/2018	38	TEQIP

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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
2017	Aptitude	6	638	6	117

	Skills Development				
2017	Preparation for Gate in Civil Engineering	87	0	0	2
2018	Employability Test	2317	0	0	0
2018	Two days "Workshop on 'Aptitude and programming skills"	57	0	0	50
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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		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
TCS	134	37	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
2017	1	Malnad College of Engineering Hassan	Automobile Engineering	Brunel University London	MSc Automotive and Motorsport Engineering
2017	1	Malnad College of Engineering Hassan	Automobile Engineering	Manipal Academy of Higher Education	MS in Automotive Engineering
2017	1	Malnad College of Engineering Hassan	Automobile	VIT, Vellore	Mtech in Automotive Engineering
2018	1	CSE	CSE	Royal Holloway	MS

				University of London	
2018	1	CSE	CSE	DE MontFort University, Leicester	MS
2018	1	CSE	CSE	VTU	MS
2018	Nill	CSE	CSE	VTU	M.Tech
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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	1
Any Other	1
Any Other	2
Any Other	2
View File	

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

Activity	Level	Number of Participants
ATHLETIC	Institutional Level	10
BALL BADMINTON	Institutional Level	12
BASKET BALL NET BALL	Institutional Level	12
CRICKET	Institutional Level	15
FOOT BALL	Institutional Level	15
HAND BALL	Institutional Level	14
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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
2017	00	Nill	Nill	Nill	000	Nill
View File						

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

For each class, one boy one girl are chosen as representatives. They will work as SPOC, also instrumental in representing their class in many issues. For each Programme of study, one boy one girl are chosen as branch representatives. This representative will form the college Student council. This council is responsible for all important issues in college - sport, cultural, hostel, extra-curricular and co-curricular activities, organizing events in the college. Each class has a class committee which has all course faculties and 4 students as members. The class committee meeting is called 2-3 times in a semester to discuss all academic other matters of students. The student members

can freely express if anyone is not doing the course well enough and any of their grievances. The faculty head of the department try to address all issues raised by student members. The college has a student representative in each department 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 AC 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, cultural activities in the campus. Every year annual event MALNAD FEST, an interbranch cultural competition is being arranged by the student council where all branch students are participated, and their talents are exhibited in the platform. A dedicated cultural club is also present in the college to conduct cultural events and to support the cultural teams to participate in the intercollege events.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Alumni Association 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. 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.

5.4.2 – No. of enrolled Alumni:

3568

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

500000

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)?

Partial

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
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 embedded with laboratory 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.

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 timetable 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)timetable, 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 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.
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.

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

E-governance 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	<p>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.</p>
Student Admission and Support	<p>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.</p>
Examination	<p>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 analyzed through contineo package system</p>

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	Name of the professional body for which membership	Amount of support
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		support provided	fee is provided	
2017	Viswanath hegde	Global Initiative of of Academics Net works (GIAN)Workshop Permanent Magnet Synchronous and Brussless DC MOTOR Drive Systems National Institute of technology Hamipur,	00	62906
2017	Shivashankar B.S.	Three days Short term course on Advance in welding and Meterials Processing at PSG College Coimbatore,	00	15564
2017	Raghavendra Rao. R.	3 Day Short term course on Advance in welding and Meterials Processing at PSG College Coimbatore,	00	15564
2018	Manu K.C.	Certificate Course on Computer Aided Analysis and Design os Structers (CAADS-2018)at CSIR- SERC Chennai,	00	21198
2018	Ravikumar M.N.	Teqip-III Orientation Workshop on Start-up and Innovation at Mini - Auditorium, IIT Guwhati	00	11736
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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	Title of the	From date	To Date	Number of	Number of
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	professional development programme organised for teaching staff	administrative training programme organised for non-teaching staff			participants (Teaching staff)	participants (non-teaching staff)
2017	Preparation for Gate in Civil Engineering	Nil	22/11/2017	24/11/2017	87	Nil
2018	How Stuff Works	Nil	08/03/2018	08/03/2018	120	Nil
2018	Web Portal Development	Nil	10/03/2018	11/03/2018	40	Nil
2018	Science in Kitchen Experiment	Nil	12/01/2018	12/01/2018	150	Nil
2018	3 days FDP Workshop on Laboratory maintenance and skill development Programme for Technical staff,	Nil	05/07/2018	07/07/2018	Nil	56

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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
TEQIP STC on 'Research Methodology'	2	09/01/2017	13/01/2017	5
Research Methodology through ICT	1	09/01/2017	13/01/2017	5
Class room to Board room	1	16/02/2017	17/02/2017	2
QIP STC on 'Modelling and Analysing Sustainable Transport for	1	10/03/2017	12/03/2017	3

Scientific Decision Making'				
CE QIP-AICTE Sponsored Short Term Course on End to End Innovations	4	07/03/2017	11/03/2017	5
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
5	5	2	2

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.	22405852	Malnad Technical Education Society, Hassan.
View File		

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	NIL	Yes	Institution Committee
Administrative	Yes	NIL	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 13/ 04/ 2017 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. 28 supporting staffs have been deputed to 6 day Skill upgradation training programme from 04-06-2018 to 09-06-2018 for Non-Teaching staff at Chennai institute of technology chennai. 3. from 28-11-2018 to 29-11-2018, faculty have been deputed to attend Two days workshop on IGBC,s Advanced training Programme on Green Building at India Habitat Centre, Lodhi Road Near Airforce Bal Bharati School, New Delhi, Delhi 10003, New Delhi, Delhi, India

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.

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
2018	Academic audit for the current year	16/03/2018	Nil	Nil	24
2018	Interdiction of SWAYAM courses in the UG programmers	02/04/2018	Nil	Nil	30

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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
Womens safety programmes on	22/12/2017	22/12/2017	65	0

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
<p>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 compass 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.</p>

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
2018	Nil	Nil	10/12/2018	1	Village Survey	Interaction with village PDOs understanding the need for technical intervention and possible solutions	40
View File							

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

Title	Date of publication	Follow up(max 100 words)
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Two days students training on International Auditor Training on Quality management Systems ISO 9001:2015	11/10/2018	Students are trained for the quality management in engineering aspects. They are also
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.
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 pre	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.
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 week programme on REACH OUT SUCCESS	04/04/2017	08/04/2017	100
Ethical values in life	30/09/2017	30/09/2017	50
Awareness on Blood donation camp.	03/09/2017	03/09/2017	78
One day Shramadana Programme	18/08/2018	18/08/2018	150

[View File](#)

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 degradable) (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

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/admin/storage/mce-mandatory-disclosures-files/December2022/I5WMI8AW3zXEPOAvlyjX.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/December2022/5PtZMHW9SfS9vixNturg.pdf>

8.Future Plans of Actions for Next Academic Year

Malnad college of Engineering is being assisted with TEQIP funds. Many academic and procurement plans have been made for the next academic year, 2018-19. 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. 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. Further, to enhance the internet and intranet network speed /facility in the college, the hardware requirement for the same are also been proposed. The college library is being strengthened with digital library software and are being renewed for the next academic years also.