

SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

INTERNATIONAL CENTRE OF EXCELLENCE IN ENGINEERING AND MANAGEMENT

**GUT NO. 4, OPP. M.I.D.C WALUJ WATER TREATMENT PLANT, AURANGABAD
- PUNE NATIONAL HIGHWAY, WALUJ, AURANGABAD**

431136

www.iceemabad.com

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

About the Trust

Indian Institute of Rural Workers (IIRW) and the Institute of Technology, Management and Research (ITMR) are two registered charitable societies and public trusts. They have jointly established ICEEM as a joint venture with a commitment for nurturing internationally acceptable excellent quality technical education and research in Engineering and Management. Several industrial bosses, successful Entrepreneurs, Educationists, Engineers, Social Workers (two of them of world fame) and Administrators are among the founders and members of these two societies.

About the institution

ICEEM is an integrated campus established with the approval of AICTE. It is committed not only to provide all the facilities and services for the students and teachers as are prescribed by the A.I.C.T.E, but also to do everything possible to provide world class technical education and research of a very high quality. ICEEM is one of the leading educational institutes in Aurangabad. Experienced academicians, well known industrialists and reputed dignitaries from social field are striving hard for establishing this campus. ICEEM is a professionally managed organization under the able leadership of Chairman Shri. Bhujangrao Kulkarni (Retd. IAS Officer). ICEEM has been awarded as the Fastest Growing Engineering and Management Institute in Aurangabad(Maharashtra) by World-Wide Achievers.

The institution location

ICEEM is advantageously located on Pune – Nagar Highway and it is also in the vicinity of fastest growing industrial hub of Waluj M.I.D.C. It facilitates effective interface between academy of the centre and neighboring industries. It provides students of ICEEM an easier access and exposure to most modern industrial processes and practices. It also has very good scope for campus interviews and placements.

Vision

- **To provide technical education of internationally acceptable high quality to students and to develop among them character, competence, and commitment to dedicated service for the advancement and welfare humanity.**
- **ICEEM aspires by 2025 to be one of the hundred best Engineering & Management College Campuses in India.**

- **ICEEM aspires to be the institute with cardinal focus mainly on practice based learning. Impart and harness vocational skills of both National and International standards.**
- **ICEEM aims by 2030 to have well equipped Incubation Centre for Research and Development activities.**

Mission

- **To impart quality professional education to the students in field of Engineering & Management.**
- **To develop entrepreneurial skills and attributes among the students.**
- **To nurture and harness students employability skills**

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- The State- of-the-art infrastructure facilities including specially designed classrooms, well equipped laboratories, tutorial rooms, central library and boys hostel
- Advantageously located on the Pune-Aurangabad highway and in the heart of one of the most active industrial estates in Maharashtra
- Spacious and excellently landscaped green campus with eco-friendly atmosphere
- Experienced, devoted and self motivated faculty members
- Effective Teacher Guardian system for addressing students' needs
- Conducive learning environment with student centric methodology
- I.C.T based teaching-learning practices
- Courses on soft skills as per industry requirements
- M.O.U.s with industries and organizations for conducting various students' centric activities
- Students' services in various social causes through NSS activities
- Encouraging and supportive management for fulfilling vision of the institution
- Dedicated open area of 1.5 acres for outdoor sports, technical/ cultural events

Institutional Weakness

- Less number of patents, funded research and book publications
- Lack of funding/financial support from Government and Non-Government organizations
- Alumni too young to contribute to Institutional Development
- Lack of central auditorium
- Shortage of Ph. D holders.
- Very limited number of consultancy activities
- Lack of foreign University collaborations

Institutional Opportunity

- Increasing in number of funded research projects
- Research publications in indexed national and international journals

- Need to improve Faculty - Cadre ratio
- Staff and student exchange program with premier institutions in India and abroad
- Strong networking with alumni to improve the academic and placement activities
- Increase in number of activities of Incubation centre
- Assessment and accreditation to enhance the brand image
- Active participation and contribution to address the Techno-Social issues like Digital India, Clean India, Smart Cities and Smart Villages at National level

Institutional Challenge

- Getting grants through Government funded projects and consultancies
- To mould rural and semi-urban students into complete professional in ever changing technological world (Lack of Quality Input).
- Increasing the number of placements for slow learners.
- Keeping pace with technological advancement
- Competitive Market
- Overall decline in engineering admission scenario
- Adopting the fast changing world with cutting edge technology
- To inculcate entrepreneurship skills in the students and encourage them to become employer

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The International Centre of Excellence in Engineering and Management (ICEEM), Aurangabad is a self financing engineering institution. The institution follows the curriculum designed by the affiliating Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (Dr. BAMU). The curriculum is developed by Dr. BAMU, integrating factors such as employability, recent trends and social needs etc. The curriculum is revised time to time regularly to develop students from every aspect and serve the requirements of the society. Faculty members of ICEEM are involved in designing and implementing the University curriculum. Senior faculty members of the institute are involved in various bodies and committees of the University such as Board of Studies, College Inspection Committee, Local Selection Committee and University Examination committee. An academic Calendar of the institution is prepared in-line with the academic calendar of the University. Every department designs their academic calendar in line with the academic Calendar of the institution. Academic, co-curricular and extra-curricular activities are conducted as per the academic calendar. The institution provides flexibility by introducing various add-on courses, industry oriented elective courses, industrial visits and arranging final year projects, which helps to bridge the gap between industry and the institution. The institution also integrates cross-cutting issues relevant to gender, environment and sustainability, human values, professional ethics into the curriculum. Students are also motivated for undertaking Field Projects & industrial projects, for taking part in competitions like Go-KART, Eco-KART, etc. Feedback of stake holders is obtained about the institution and existing syllabus. Hence, the suggestions received are forwarded to university for further consideration.

Teaching-learning and Evaluation

The Institute identifies the slow and advance learners initially by analysis of entry level merit and later by internal performance assessment, mentoring, tutorials and tests. We focuses on the mission to develop an evolving educational system with competent, hardworking and dedicated manpower, the teaching and learning process is centered on an Outcome based education with Innovative teaching learning and student centric methods.

A robust participative system established by the IQAC is a major contributor to achieve desired Outcomes in Engineering and MBA.

Salient features of Teaching and Learning include:

1. College orientation and induction program followed by identification of slow and advanced learners.
2. Various student centric processes and tools such as LMS, ERP, Language Lab and smart class rooms etc. are used for enhancing teaching and learning.
3. Conducting Curricular and co curricular activities such as workshops, Industrial visits, Technical Events Industry based live projects and skills development programs.
4. A team of highly experienced and qualified teachers resulting in a required student-teacher ratio.
5. Established mentoring culture for student support.
6. Desired amenities are available for differently abled students.
7. Internal Quality Assurance Committee, plans and monitors teaching and learning process. POs, PEOs and COs are systematically displayed and communicated to teachers and students according to the University syllabus available on the college website.
8. The Exam Committee supervises the transparent, robust and time bound internal assessment system. Continuous Internal Evaluation is strictly implemented with continual reforms.
9. Learning outcomes are reflected in a high pass percentage of students and result attainment calculated based on the examination results, PO, PEO, CO and stakeholders' feedback.
10. The Institution has a set method of measuring program outcomes, program specific outcomes and course outcomes that ultimately improves the education quality of the college and graduate outcome. This is attained by taking inputs from the faculty, Student, Alumni, Industry and professional bodies linking into the positive outcomes.

Research, Innovations and Extension

Keeping in line with our mission, to identify market niche, module training/mentorship to early stage technical students in order to develop innovative and entrepreneurial mindset, the Innovation Incubation and Entrepreneurship Cell and IPR Cell has been established.

The innovation cell ecosystem is structured through a solid support of complete gamut of technical laboratories/testing facilities available at institute level and a strong network of industry setups and globally recognized research laboratories. Innovation Incubation and Entrepreneurship Cell and IPR Cell of ICEEM, chaired by the Director, industry persons and senior faculty members from each department for resource mobilization.

Research and IPR Committee promotes monitors and addresses issues related to research and Intellectual Property. The college has functional MoU with leading companies/Institutes in Aurangabad. The institution organizes various workshops, guest lecturers and technical field trip for cultivating the research atmosphere.

Some other research achievements include:

- 06 research awards/recognitions to faculty/student during last five years.
- Filed 02 Indian patents application.
- Published 05 books/Chapter in book and more than 150 research publications in Journal and Conferences.

Through the NSS units the students/faculties participate in extension and outreach programs such as Blood Donation Camp, Tree plantation, Cancer awareness, General Health Checkup, Swacch Bharat Abhiyaan, Helmet Rally, Beti Bachao Beti Padhao Rally, etc to inculcate a spirit of social responsibility and awareness. The institution has signed 09 Memorandums of Understanding related to organizing student centric activities.

Infrastructure and Learning Resources

International Centre of Excellence in Engineering and Management (ICEEM), situated in beautifully landscaped, lush green campus, is approved by AICTE, New Delhi, Recognized by DTE, Government of Maharashtra and is affiliated to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. Since its establishment in 2011, ICEEM has maintained high standards for infrastructure and learning resources. Spacious, well-ventilated 17 classrooms and 3 seminar halls are available for smooth conduct of theory sessions. Besides the conventional teaching aids, 2 classrooms are also equipped with ICT facilities viz. Digital smart board, LCD projectors and Short throw Digital Camera. Institute hosts well-designed and well-maintained, Equipped 32 laboratories.

Library is well-equipped with modern facilities and huge pool of knowledge resources which includes collection of 11523 Volumes of books of 1915 Titles, Journals, large collection of rare Books, NPTEL facility for all. Separate e-library, computer room with high speed internet. Seminar Hall with 200 seating capacity facilitates efficient conduct of seminars and extra-curricular activities. Sports ground and gymkhana for outdoor/indoor games are available for recreation. Hostel, canteen, transport, general stores etc. facilities are also available. Faculty rooms are equipped with computers. Ramp and lift are available for differently-abled students.

Institute has separate centralized cells for maintenance of available infrastructure. Sufficient security persons are appointed to maintain security and safety in the campus. Laboratory equipment's, computers and other gadgets are maintained internally as well as by relevant agencies. Adequate budget is allocated for maintenance and up keeping.

Student Support and Progression

The institute continuously attempts for providing excellent device in support and progression of students in all inclusive manner .More than three forth of the students have benefitted by scholarships and freeships provided by the Government as well as College provides fee concessions benefits to students.

Marathwada being a backward region a number of capability enhancement and development schemes have been introduce for students such as in-plant training and placement through TPO cell, book bank facility, competitive examination (GPAT assistance), career counseling, soft skill development, remedial coaching, language lab, bridge courses, add-on certificate programs, yoga and meditation, personal counseling. Such

schemes have helped maximum students for progress to higher education and placements through campus interviews. Further it has the outgoing students who opt for government and other entrance examinations achieve good success rates. Also Institute has an active grievance redressal mechanism, ragging free campus, women's grievance cell, free parking.

College has Extracurricular (sports and cultural) committee which is actively involved in organizing various sports and cultural events throughout the year. The students have excelled at the regional levels.

The IQAC ensures student active participation in the Student Council and various committees.

The College has not still benefited substantially through financial contributions in the form of scholarships or awards/prizes to students but knowledge sharing by the Alumni. "Alumni Association of International Centre of Excellence in Engineering and Management" (AAI) registration process is going on.

Governance, Leadership and Management

The vision of the institution is that it aspires by 2025, to be one of the hundred best Engineering & Management College Campuses in India. The mission of the institution is to impart quality professional education to the students in field of Engineering & Management, to develop entrepreneurial skills and attributes among the students & to nurture and harness students employability skills. The Management, Director, Heads of the Departments, Section Heads and Administrative Officer play a vital role in achieving the Vision and Mission statements of the institution. The institution pursues a transparent work culture. Student's centric activities are carried out by participative management. Faculties are involved in different functional committees as a part of decentralization practices. The institution takes efforts for recruiting experienced faculties through established procedures and policy. Performance appraisal of faculties is carried out every year by the Director along with Heads of the Departments on the basis of parameters like teaching skills, students' feedback and result analysis. Consolidated annual budget of institution is prepared after receiving the budget from each department. Management conducts regular meetings with the Director about the requirements of the institution such as infrastructure development, financial needs, recruitment of faculties and staff as per the existing resource mobilization policy. Internal and external audits are carried out in the financial year for income and expenditure of the institution. Overall internal Quality is assured by Internal Quality Assurance Cell (IQAC) of the institution through periodic interactions. Institution thrives for achieving academic excellence and continuous improvement of quality.

Institutional Values and Best Practices

Institute organizes Gender equity programs like BetibachaoBetiPadhao, Celebrates Internal Women's day, has proper facilities for common rooms, washrooms and women's safety.

Environmental consciousness is created by adopting appropriate energy alternatives. Annual lighting requirement is met through usage of LED bulbs and solar panel.

Waste management is done through recycling of solid waste.

Daily requirement of water on campus is met through bore well which is constructed within the vicinity.

Green practices is adopted by using public transport which is used by both students and faculties. Also, the campus is constituted with varieties of flora.

Many initiatives for addressing locational issues and contribution to local community are conducted like Swachhata Abhiyan, Free dental and eye check up, Blood donation campaign, helmet rally, Tree plantation, etc.

Activities to increase national consciousness, constitutional obligations, social cohesion, celebration of birth/death anniversaries of great Indian personalities are organized.

Courses addressing value based education, professional values and environment consciousness are taught to the students like Indian ethos and values, Environment management, introduction to Indian Constitution, etc.

Institute's distinctiveness is its "Innovation with the Ecosystem".

Our Best Practices are:

1. Teacher- Guardian approach
2. Students' Association of departments

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	INTERNATIONAL CENTRE OF EXCELLENCE IN ENGINEERING AND MANAGEMENT
Address	Gut No. 4, Opp. M.I.D.C Waluj Water Treatment Plant, Aurangabad - Pune National Highway, Waluj, Aurangabad
City	Aurangabad
State	Maharashtra
Pin	431136
Website	www.iceemabad.com

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Associate Professor	Amol Murgai	0240-2558104	9823550050	0240-2558101	amolmurgai@iceemabad.com
Director(in-charge)	Dilipsingh C. Gour	0240-2558123	9890440576	0240-2558111	director@iceemabad.com

Status of the Institution	
Institution Status	Self Financing and Private

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details

Date of establishment of the college	01-01-2011			
University to which the college is affiliated/ or which governs the college (if it is a constituent college)				
State	University name		Document	
Maharashtra	Dr. Babasaheb Ambedkar Marathwada University		View Document	
Details of UGC recognition				
Under Section	Date		View Document	
2f of UGC				
12B of UGC				
Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	04-04-2018	12	

Details of autonomy	
Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Gut No. 4, Opp. M.I.D.C Waluj Water Treatment Plant, Aurangabad - Pune National Highway, Waluj, Aurangabad	Rural	11	12838

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BE,Mechanical Engineering	48	HSC	English	90	8
UG	BE,Civil Engineering	48	HSC	English	45	10
UG	BE,Electronics Telecommunication Engineering	48	HSC	English	45	3
UG	BE,Computer Science Engineering	48	HSC	English	45	11
PG	MBA,Master Of Business Administration	24	GRADUATION	English	45	45

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	1				9				24			
Recruited	0	0	0	0	1	0	0	1	12	3	0	15
Yet to Recruit	1				8				9			
Sanctioned by the Management/Society or Other Authorized Bodies	0				0				30			
Recruited	0	0	0	0	0	0	0	0	20	9	0	29
Yet to Recruit	0				0				1			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				9
Recruited	8	1	0	9
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				6
Recruited	6	0	0	6
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	1	0	0	1	0	0	2
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	32	12	0	44

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	Male	Female	Others	Total
		12	0	0

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	143	0	0	0	143
	Female	48	0	0	0	48
	Others	0	0	0	0	0
PG	Male	38	0	0	0	38
	Female	7	0	0	0	7
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years

Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	0	41	44	62
	Female	12	12	12	16
	Others	0	0	0	0
ST	Male	0	0	0	1
	Female	2	2	2	2
	Others	0	0	0	0
OBC	Male	93	86	78	85
	Female	15	13	14	24
	Others	0	0	0	0
General	Male	325	303	266	242
	Female	64	69	84	85
	Others	0	0	0	0
Others	Male	79	85	77	67
	Female	27	70	25	29
	Others	0	0	0	0
Total		617	681	602	613

3. Extended Profile

3.1 Program

Number of courses offered by the institution across all programs during the last five years

Response: 488

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of programs offered year-wise for last five years

2017-18	2016-17	2015-16	2014-15	2013-14
5	5	5	5	5

3.2 Students

Number of students year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
613	602	681	660	472

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
360	360	352	268	268

File Description	Document
Institutional data in prescribed format	View Document

Number of outgoing / final year students year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
86	184	160	84	23

File Description	Document
Institutional Data in Prescribed Format	View Document

3.3 Teachers

Number of full time teachers year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
66	92	92	76	60

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of sanctioned posts year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
82	92	92	76	60

File Description	Document
Institutional data in prescribed format	View Document

3.4 Institution

Total number of classrooms and seminar halls

Response: 20

Total Expenditure excluding salary year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
346	452	212	326	299

Number of computers

Response: 190

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The institution ensures effective curriculum delivery through a well planned and documented process

Response:

ICEEM aim to develop and deploy various plans for effective implementation of the curriculum in which first step is taken in the beginning of academic year; teaching plans are prepared by the teachers of all the faculties. ICEEM provides a positive classroom environment by making the classroom a pleasant, friendly place; we accept individual differences and accordingly plan learning activities. Time tables are prepared for all the classes of the respective programs. Allocations of lectures of all the subjects are planned according to Dr. BAMU University rules and regulations. All the teachers follow teaching schedule as per the time table. Our teaching faculty update themselves by attending refresher courses, orientation programs and workshops, conferences, FDP, seminars organized by various colleges & UGC HRD centers of Universities which help them for implementation of their subject delivery & curriculum more effectively . All the teachers use various teaching methodology like taking students for field visit for demonstration of particular concept, showing current research work through power point presentations, giving task of finding out the problems and solutions of the problems in the practical works, etc. to make learning process more effective. The subject teachers arrange regularly study tours, practical sessions for enhancing their fundamental concepts and knowledge of the respective subjects. ICEEM arranges extra classes for the slow learner students for better understanding of subjects. The college always support and organize study tour, guest lecture, group discussion, practical session and industrial visit etc. by providing financial assistance and transportation facilities for students to understand the curriculum more effectively. Departments use modern teaching aids, ICT devices for effective delivery of curriculum. The institute provides all necessary infrastructural facilities to teaching staff such as Language lab, advance Educational Software and material such as CD's, reference books in library and e-library facility, broadband internet connectivity. Students participate in group discussions, debates and seminars which helps them in their routine teaching of curriculum. Faculty members and students have got the access to NPTEL website. The institute also encourages getting MOU with the industries for better training in core fields and bridging the gap between institution and industry. Academic In-charge, monitors the syllabus coverage in class, support overall conduction of teaching learning process in the class room. HOD is the overall in charge of proper functioning of the academic system. He also monitors the delivery of course, achieve outcomes and design corrective measures whenever and wherever necessary. FDPs are conducted for the faculty members, when a new course is introduced in the curriculum. College takes the feedback from students, faculty and other stakeholders regarding curriculum. After collection qualitative and quantitative assessment report of feedbacks are generated to take the necessary action regarding respective issues. College always supports and motivates research oriented projects from student and faculties which will contribute to the social & national development.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

1.1.2 Number of certificate/diploma program introduced during the last five years

Response: 4

1.1.2.1 Number of certificate/diploma programs introduced year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
2	1	1	0	0

File Description	Document
Details of the certificate/Diploma programs	View Document
Any additional information	View Document

1.1.3 Percentage of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council during the last five years

Response: 88.08

1.1.3.1 Number of teachers participating in various bodies of the Institution, such as BoS and Academic Council year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
27	22	8	7	4

File Description	Document
Details of participation of teachers in various bodies	View Document
Any additional information	View Document

1.2 Academic Flexibility

1.2.1 Percentage of new Courses introduced out of the total number of courses across all Programs offered during last five years

Response: 55.74

1.2.1.1 How many new courses are introduced within the last five years

Response: 272

File Description	Document
Details of the new courses introduced	View Document
Any additional information	View Document

1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/Elective course system has been implemented

Response: 100

1.2.2.1 Number of programs in which CBCS/ Elective course system implemented.

Response: 5

File Description	Document
Name of the programs in which CBCS is implemented	View Document
Minutes of relevant Academic Council/BOS meetings.	View Document
Any additional information	View Document

1.2.3 Average percentage of students enrolled in subject related Certificate/ Diploma programs/Add-on programs as against the total number of students during the last five years

Response: 11.45

1.2.3.1 Number of students enrolled in subject related Certificate or Diploma or Add-on programs year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
139	103	0	62	38

File Description	Document
Details of the students enrolled in Subjects related to certificate/Diploma/Add-on programs	View Document
Any additional information	View Document

1.3 Curriculum Enrichment

1.3.1 Institution integrates cross- cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum

Response:

Cross-cutting issues are integrated into the curriculum by the following mechanisms:

Gender:

The students and staff are supported by Internal Complaint Cell (ICC). In addition to this college has appointed Vishakha Samitee for girls, which helps to solve the problems of girls. Various camps like self-defense camp, health care camp; Yoga Camp, etc. are arranged regularly for girls. Women's day, Jijamata Jayanti, Savatri Bai Phule Jayanti is celebrated every year and various Competitions are organized.

Environment and Sustainability:

Environment Awareness is compulsory subject for engineering; College also helps to integrate the environmental awareness of students by giving Projects on environmental engineering. College students have achieved some extraordinary milestones by registering the patent in research project in Environment and sustainability. NSS Organizes blood donation camp, tree plantation campaign, swachhatapandharwada, awareness rallies, etc.

Human Values:

The college has Elevator and specially designed toilet for differently abled persons. The institute organizes the guest lectures on stress management. Discipline committee is also works to monitor and improve the human values. ICEEM provides industrial exposure to students which help them to know about professional ethics and organizational flow. Subject like organizational behavior, manager skill development are included in syllabus for development of Human values and professional ethics. Anti-Ragging Committee As per the guidelines of UGC, AICTE and the University. Any student can lodge a complaint without disclosing his/her identity in case of any in convenient incident.

Sr. No.	Name of Course	Issue Addressed	Content
1	Vishakha Samitee	Grievance of Women's	Works on solving all the problems of women's in the institute
2	Women's Celebration	Day Women's Importance in Society.	Expert lecture talk by successful women's.

3	Celebration of various Jayanti	Women's Education	Awareness rally, Encouragement to BetiBachaoBetiPadhao Scheme
4	Self Defense Camp	Self Defense Techniques	Training students regarding Self Defense Specially Girls.
5	Yoga Camp	Benefits of Yoga	Training of different Yoga techniques for women's health related problems.
6	Engineering Chemistry & Environmental Science (FE ENGG.)	Environment & Sustainability	Segments of Environment, Pollutions & Preventive measures.
7	Elements of civil Engineering (FE ENGG.)	Environment & Sustainability	Water Demands & Water Treatment Plants.
8	Environmental Engineering (TE&BE Civil Engg.)	Environment & Sustainability	Sewage Treatment plant, Waste & Fresh water quality parameters, Air Pollution
9	Environmental Science (SE Engg.)	Environment & Sustainability	Segments of Environment, Pollutions & Preventive measures.
10	Environment management (FY MBA)	Environment & Sustainability	Basics of Environment, EMS standards, pollution & waste management, Environmental Laws.
11	Communication Skill	Human Values & Professional Ethics	Professional Skills, Soft-Skills, Developing Skills
12	Green IT	Human Values & Professional Ethics	Includes "designing, manufacturing, using & disposing of computers, servers, and associated subsystems efficiently and effectively with minimal or zero impact on environment.
13	Manager Skill Development	Human Values & Professional Ethics	Ethics, Planning, making decisions, and problem solving
14	Corporate Governance & Ethics	Human Values & Professional Ethics	Fundamentals & Principles of Ethics, work ethos, Leaders in

			business ethics.
15	Computer system security and cyber laws	Human Values & Professional Ethics	Professional ethics and laws of Cyber.
File Description		Document	
Any Additional Information		View Document	
Link for Additional Information		View Document	

1.3.2 Number of value added courses imparting transferable and life skills offered during the last five years

Response: 8

1.3.2.1 Number of value-added courses imparting transferable and life skills offered during the last five years

Response: 8

File Description	Document
Details of the value-added courses imparting transferable and life skills	View Document
Any additional information	View Document

1.3.3 Percentage of students undertaking field projects / internships

Response: 30.34

1.3.3.1 Number of students undertaking field projects or internships

Response: 186

File Description	Document
List of students enrolled	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

1.4 Feedback System

1.4.1 Structured feedback received from 1) Students, 2) Teachers, 3) Employers, 4) Alumni and 5) Parents for design and review of syllabus-Semester wise/ year-wise

- A. Any 4 of the above**
- B. Any 3 of the above**
- C. Any 2 of the above**
- D. Any 1 of the above**

Response: A. Any 4 of the above

File Description	Document
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	View Document

1.4.2 Feedback processes of the institution may be classified as follows:

- A. Feedback collected, analysed and action taken and feedback available on website**
- B. Feedback collected, analysed and action has been taken**
- C. Feedback collected and analysed**
- D. Feedback collected**

Response: A. Feedback collected, analysed and action taken and feedback available on website

File Description	Document
Any additional information	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average percentage of students from other States and Countries during the last five years

Response: 0.68

2.1.1.1 Number of students from other states and countries year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
12	1	4	3	1

File Description	Document
List of students (other states and countries)	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.1.2 Average Enrollment percentage (Average of last five years)

Response: 40.13

2.1.2.1 Number of students admitted year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
284	194	164	265	280

2.1.2.2 Number of sanctioned seats year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
489	599	655	627	653

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.1.3 Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last five years**Response:** 34.52

2.1.3.1 Number of actual students admitted from the reserved categories year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
132	77	59	155	107

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.2 Catering to Student Diversity**2.2.1 The institution assesses the learning levels of the students, after admission and organises special programs for advanced learners and slow learners****Response:**

The Institute identifies the slow and advance learners initially by analysis of entry level merit and later by internal performance assessment, mentoring, tutorials and tests. The key issues such as knowledge, skills, planning abilities, problem analysis and communication are initially identified based on entry level performance and continued performance assessment is done through outcomes of students interactions with the subject teachers, class teachers and mentors/teacher guardians allotted.

- 1.The institution organizes induction/orientation programmes for the students before the commencement of the programme.
- 2.Before the commencement of the program the institute assesses the student's needs in terms of knowledge and skills as well as their qualifying marks and their ranking in the merit list.
- 3.Department faculty members discuss and counsel the students about the course curriculum and subject options available and explain the possible combinations.
- 4.The institution takes care of the student not only to get suitable jobs after the course but also to become a successful & delightful human in his life.
- 5.Students are encouraged to participate in symposium, seminars, workshops, project contests, mini projects, conferences, in-plant training, internship training and industrial visits.
- 6.Students are motivated to do mini projects and working models which are appreciated by the management.
- 7.Students are encouraged and facilitated to prepare for competitive examinations like GATE, GMAT, TOEFL, etc
- 8.The faculty analyses the data on the academic performance of the students through the results of

internal assessment tests and end semester examinations.

Table 2.2.1.1 Identifying methodology for slow and advanced learners and activities to improve slow learner performance

Title of activity	Nature of Activity	Remarks
Entry level Analysis	In this, subject wise marks are observed & weak points of students are identified	Merit lists are prepared ^ analysis is done to identify slow & fast learners
Induction Program	Based on simple tricky questionnaires & general quiz competitions, slow & advanced learners are identified	Faculty members involved in the Program makes the analysis of program which plays important role in deciding slow & advanced learners
Motivational & Remedial Coaching	It is given to students who identified as slow learners through different tests & interactive sessions	It improves the results of slow learners
Technical Events/ Workshops/Conferences	Organized for both slow and fast learners	To keep them updated with the current trends in engineering research
Communication skills	Activity for slow and fast learners.	For improving communication skills of students.
Aptitude & Mental ability Tests	Assessment test for both slow and fast learners.	To test the ability to recall and apply information with major focus on critical reasoning.
Competitive exams such as GATE/GRE/Aptitude coaching	College organizes regular coaching for competitive exams.	Preparing students for global sustainability
Use of LMS & e-resources	Faculty members regularly use LMS such as My-Examo, ERP & e-resources.	Improves visualization & perception
Mentoring (TGS)	Each student is allotted a respective mentor	Mentor keeps a watch on progress of the student and gives time to time guidance to improve the performance.

File Description	Document
Any additional information	View Document

2.2.2 Student - Full time teacher ratio

Response: 9.29

File Description	Document
Any additional information	View Document

2.2.3 Percentage of differently abled students (Divyangjan) on rolls

Response: 0

2.2.3.1 Number of differently abled students on rolls

File Description	Document
Institutional data in prescribed format	View Document
Any other document submitted by the Institution to a Government agency giving this information	View Document

2.3 Teaching- Learning Process

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

Response:

Student centric methods are used for enhancing learning experiences some of the methods put in Practice by the faculty are shown below. **Table 2.3.1.1: Student centric methods**

Student centric methods	Examples
Inquiry-based method	Students are encouraged to ask questions on subjects taught. Provided with appropriate tools and techniques to generate the data during laboratory practical work, students as a part of their project work to get the opportunity to plan and conduct investigations, think critically and logically about the results obtained and give scientific explanations.
Problem-based learning (PBL)	It is used by the students. The projects or problems selected are such that they often reflect or are based on real-life scenarios (in engineering & management sectors) The processes of team work, research, data collection, critical thinking and so on are used by the students.
Experimental and Project-based learning	Used for student centered learning. Projects are given to final year engineering students who work individually or collaboratively to gather and present information on a topic and present their work at the term end.
Resource-based learning (RBL)	College provides a rich library for aiding the RBL approach for both engineering and M.B.A. students. Learning is through library software, e-resources, LMS or through emails. Library assignments

	are given by teachers to students to foster student's autonomy in learning by providing opportunities to work individually or collaboratively while using appropriate resources and applying relevant literacy, numeracy and study.
Value added learning	The students are sensitized towards social issues by organizing lectures of eminent personalities from varied strata of society. Further through NSS unit, the students learn the motto of "Working for Society" and other social responsibilities in NSS camps. Technical Events, Workshops, seminars, Industrial Visits etc. are also part of value added learning.

Table 2.3.1.2: Some Example for Enhancing Learning Experiences

Sr. No.	Course Title/ Activity	Course Outcome/Knowledge/Ability to be developed	Teaching Method Used	Description
1	Mini project & Case studies	To gain fundamental knowledge about the course	Resource & project based learning and discovery	Students prepare mini projects & understand the product development process
2	Industrial Visits & Implant Trainings	To gain knowledge & to provide an industry exposure to the students.	On sight training & real time experiences	Students visit field related Industry & make visit reports. After successful completion of implant training students are given certificates by the Industry
3	Arranging Technical workshops & Expert Lectures by Industry persons	Stage courage, Leadership & Technical knowledge of students improved	Hands on practicals & tutorial sessions	Through various technical workshops & expert lectures students get ready for the recent trends in engineering & management
4	Extra Classes & Tutorials for Numerical Subjects	To improve analytical & logical ability of students	Learning resources, LMS & ICT tools are used	It boosts the analytical skills & improves students confidence
5	Remedial Classes for the subjects having poor result	To improve the result & depth of subject knowledge	Learning resources, LMS & ICT tools are used	It improves the subject result

File Description	Document
Any additional information	View Document

2.3.2 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc.

Response: 100

2.3.2.1 Number of teachers using ICT

Response: 66

File Description	Document
List of teachers (using ICT for teaching)	View Document
Any additional information	View Document
Provide link for webpage describing the " LMS/ Academic management system"	View Document

2.3.3 Ratio of students to mentor for academic and stress related issues

Response: 9.29

2.3.3.1 Number of mentors

Response: 66

File Description	Document
Any additional information	View Document

2.3.4 Innovation and creativity in teaching-learning

Response:

Following innovative and creativity methods are adopted in teaching-learning and used by the faculty during last five years:

Table 2.3.4.1: Innovative methods adopted and used by the faculty

Sr. No.	Innovative practices in Teaching	Impact
1	E-journals and E-books & Learning Management System	Develops interest about literature survey & comparative approach required for product development
2	You tube videos & Power point presentations	Improves the visualization power & effective concept learning

3	PDF notes/ Images/ Diagrams/Charts	
4	Simulation Softwares are used	Understanding the concepts effectively & Developing the design skills.
5	Online Webinars, NPTEL Online Courses & CDs/DVDs on experiments/Books	Improves the visualization power, market survey habits & effective concept learning
6	Remote Access to Dr. BAM university library's e-resources	Develops interest about literature survey & comparative approach required for product development
7	GDs, Debates and Seminars	Sharpen the critical thinking among students
8	Tutorial & hands on workshops	Enhances the problem solving ability of students
9	Technical quiz & competitions are regularly organized	Exhibits the critical thinking, creativity and scientific temper of the students & develops the leadership quality among students
10	Industrial Visits, Implant trainings, Industrial projects & sight visits	Enrich the critical thinking and creativity among the students community

1. The faculty members supplement the latest technologies with regular teaching for learning to be made more effective.
2. The institution mainly focuses on the students to make them original thinkers. The faculty members motivate the students in such a way to participate in the youth festival and cultural activities to encourage the artistic temper among the students. In the same way, to encourage student's scientific temper, they are involved in the practical sessions and hands on experience in labs.
3. They are also guided by the faculty members to present and publish their project work as research paper in national and international conferences and journals.
4. To exhibit the critical thinking, creativity and scientific temper of the students, the institution conducts various technical activities at department level every year.
5. Subject wise quizzes are conducted to improve analytical skills, logical skills and reasoning abilities of the students.
6. Students contribute creative articles to the in-house magazines published by various departments.
7. Extensive problem solving skills are practiced during tutorial hours. Mini projects and final projects are designed and developed as a part of creativity, innovation and idea mapping.
8. Participatory learning through group discussions, role play, case study, debates, field visits, model making supplement class room teaching.
9. To sharpen the critical thinking among students, various GDs, Debates and Seminars reorganized in which students explore new ideas with the help of the expert views of eminent professionals.
10. To improve and enrich the critical thinking and creativity among the students community, the students are encouraged to do project works on latest engineering topics and take part in various internal and external project exhibitions.
11. They are encouraged to participate in various activities such as paper presentation, workshops, technical quiz, robotics design, cracking the code, circuit debugging, bridge making, Robo-race and

so on.

File Description	Document
Any additional information	View Document

2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years	
Response: 96.1	
File Description	Document
Year wise full time teachers and sanctioned posts for 5 years	View Document
List of the faculty members authenticated by the Head of HEI	View Document

2.4.2 Average percentage of full time teachers with Ph.D. during the last five years											
Response: 2.23											
2.4.2.1 Number of full time teachers with Ph.D. year-wise during the last five years											
<table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>1</td> <td>1</td> <td>2</td> <td>2</td> </tr> </tbody> </table>		2017-18	2016-17	2015-16	2014-15	2013-14	2	1	1	2	2
2017-18	2016-17	2015-16	2014-15	2013-14							
2	1	1	2	2							
File Description	Document										
List of number of full time teachers with PhD and number of full time teachers for 5 years	View Document										
Any additional information	View Document										

2.4.3 Teaching experience per full time teacher in number of years	
Response: 5.09	
2.4.3.1 Total experience of full-time teachers	
Response: 335.9	

File Description	Document
Any additional information	View Document

2.4.4 Percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years

Response: 12.95

2.4.4.1 Number of full time teachers receiving awards from state /national /international level from Government recognised bodies year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
5	4	0	1	0

File Description	Document
Institutional data in prescribed format	View Document
e-copies of award letters (scanned or soft copy)	View Document

2.4.5 Average percentage of full time teachers from other States against sanctioned posts during the last five years

Response: 1.95

2.4.5.1 Number of full time teachers from other states year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
2	2	2	1	1

File Description	Document
List of full time teachers from other state and state from which qualifying degree was obtained	View Document
Any additional information	View Document

2.5 Evaluation Process and Reforms

2.5.1 Reforms in Continuous Internal Evaluation(CIE) system at the institutional level

Response:

The college is affiliated to Dr. BAMU and follows the evaluation process defined by the university. The examination/evaluation reforms are at two levels as enumerated below:

A) University Examination/Evaluation

The university has initiated various reforms in the last few years as mentioned below:

1. The university has implemented a 80:20 pattern for the B.E. program from 2013 - 14 onwards.
2. 20 Marks internal class test is taken at the Institute level.
3. The university has introduced new bar-coding system for the answer papers for improving the confidentiality and the quality of examination. This has markedly reduced the result declaration time.
4. The university provides the photocopies of answer papers on demand to the students for redressing their grievances in the examination to maintain transparency.
5. The university has further introduced CGPA system of grading for BE program from the academic year – 2016-17.

B) College (Internal) Exams/Evaluation

All Internal examination reforms are implemented at college level according to the guidelines of University. Few examples which have positively impacted the examination system are:

1. Continuous Assessment and evaluation system of journals, theory and practical enables monitoring student's performance.
2. Frequent orals, daily practicals and written evaluation are incorporated into the Practical record books and files which allows for continuous evaluation.
3. Internal theory subject class test question papers have been framed as per the University question paper pattern; this enables the students to get acquainted at formative stage which has resulted in better outcomes.
4. Training and practice of Aptitude test, intelligent test of students is helping them for getting success in competitive examinations like GATE, JRE etc.
5. Teacher guardian method is implemented for solving different problems of students.
6. Frequent class tests are conducted; assignments and question banks are given and evaluated to have a check on periodic student performance.

File Description	Document
Any additional information	View Document

2.5.2 Mechanism of internal assessment is transparent and robust in terms of frequency and variety

Response:

The institution implements all the internal assessment as prescribed by the Dr. BAMU. In addition, institute has introduced some other assessment parameters for evaluation. Following internal assessment parameters given by university

1. Online submission of internal Term work marks.
2. Online submission of internal class Test marks.

Various methods of Assessment

1. At the beginning of the academic year, the Internal Quality Assurance committee (IQAC) prepares Academic Calendar indicating schedule for the various activities & examinations to be conducted in the semester, examination pattern, rules and regulations, time table, evaluation and assessment schedule for the internal examinations and implementation of external examination as per the guidelines by Dr. BAM University for engineering programs.
2. The IQAC issues circulars and notices pertaining to all examination matters to the stake holders (faculty, students, mentor, parents) through college notice board, web site, ERP, WhatsApp, e-mails, SMS further information regarding University examination and evaluation pattern is available on the Dr. BAM University website and the college library.
3. On commencement of First Year engineering / MBA course the college organizes an induction program for students and their parents. The regulations of affiliated university, curriculum of the course and evaluation processes are clearly explained to the students.
4. Department level meeting is conducted at the beginning of every semester and schedule of internal assessment tests, question paper pattern, evaluation process, etc., are conveyed.
5. The syllabus is covered as per the teaching plan prepared by the subject teachers, for the conduction of theory & practical sessions.
6. Monthly attendance percentage and internal marks of all the courses are periodically displayed in the department notice board with the signature of students.
7. The university examinations schedule and the university examination results of individual students can be assessed by the student through the university website.
8. The faculty members set the question paper for the prescribed portion well in advance and hand over the question paper to the examination cell. They also prepare question paper key/solutions well in advance.
9. Based on the academic schedule, internal assessment tests are conducted and evaluation processes are followed. Students are able to know internal marks within 7 to 10 days of the completion of the internal examination through the concerned teacher and the same is reassured by taking the signatures of the students on the mark-list.
10. Remedial classes are being conducted for the subjects having poor result & through the additional assignments their performance is enhanced.
11. Internal project monitoring/reviews are organized by the departments for the final year students & review reports are generated after the monitoring.
12. Subject wise internal viva's are conducted & based on the performance internal marks are given.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

2.5.3 Mechanism to deal with examination related grievances is transparent, time-bound and efficient

Response:

The institute conducts all the Dr. BAMU examination as per its schedule. The institute has taken following measures to solve examination related grievances.

University Examinations: The effective implementation of the university examinations is done by appointing Chief Superintendent, display of Exam time table, timely distribution of hall tickets, display of seat number's according to hall's and proper seating arrangements as per guidelines of university. For supervision and monitoring of examination CCTV cameras are used.

1. The University has created systems through which students can opt for photocopy of answer sheet.
2. Student can also apply for rechecking and revaluation.

Online examinations: The effective implementation of the university online examinations is carried out in following steps:

1. Creating one local server as per university guidelines.
2. University Web portal for solving grievances of institute and student.
3. LAN creation as per need and strength of students.
4. Execution of examination according to the time table of University.

Semester examination: Execution of semester examination is carried out in following steps

1. In-semester examination is carried out as per Dr. BAMU timetable.
2. In-semester and End semester examination question papers are set by Dr. BAMU appointed examiners.
3. Invigilators are appointed for invigilation.
4. Masking of papers and Central Assessment of answer Papers (CAP) is conducted at University level for fair assessment of papers.

Practical/Oral examination: For smooth conduction of University theory examination,

1. External and Internal examiners are appointed by university.
2. Online web portal is provided for marks filling.
3. Examinations are conducted as per the schedule given by university.
4. Execution of examination is carried out according to the instructions and guidelines of university.

File Description	Document
Any additional information	View Document

2.5.4 The institution adheres to the academic calendar for the conduct of CIE

Response:

The college adheres to the academic calendar for the conduct of CIE. The academic calendar is prepared by IQAC. This calendar prepared is based on the affiliating university Dr. BAM University academic calendar.

The academic calendar displays tentative dates of all academic activities like commencement of academic term, internal examinations schedules, university examinations extracurricular activities like departmental technical events, teachers day, engineers day and annual social gathering, sports activities, winter and summer vacations, start & completion of academic term etc. The execution of all activities listed in the academic calendar is done according to academic calendar and its execution is monitored by the IQAC. Current year academic and university calendar is attached as additional information.

Internal Evaluation: Internal evaluation is made through internal project monitoring/reviews, Mock tests, Class Tests, Improvement Tests, Internal Viva's and Internal Competitions. The following parameters are considered in internal evaluation

1. Participating and organizing various events like seminars, paper presentation contests and Technical project competitions for e.g. "NIRMAAN" project competition.
2. Active participation in various inter-college events and national level contests.

e.g. 1. "My Dream Aurangabad" competition organized by Municipal Corporation Aurangabad,

GIZ event, Aavishkar, etc.

1. On-line and practical/oral examinations
2. Internal Class tests performance
3. Assignments and Practical Journals with continuous assessments.
4. Participation of students in Industrial & on sight visits for e.g.

Visit to INFOSYS, Manufacturing Industries, Akashwani, BSNL, RUSA, DDUK, Bhandardara Dam, Field visits to Construction sights, etc .

1. Involvement of students in Mini projects/Major Projects for e.g.
 1. Mobile application development of "Ajanta Ellora International Festival".
 2. Generation of Electricity through exhaust fan.
 3. Smart Class room & Smart Byke
 4. Sugarcane cutting machine
2. Involvement of students in Social activities through NSS such as:
 1. Cleaning nearby local areas under "Clean India Programme"
 2. Women empowerment program under "Beti Bachao, Beti Padhao"

3. Traffic rules awareness & Helmet rally
3. Participation of Student in various training and Placement programme.
4. Through the Implementation of Teacher Guardian Scheme for getting reviews from students.
5. Timely display of information of class test marks and other activities on notice board.
6. Weekly Director and HOD meeting for Academic review.
7. Through the monthly submission of Defaulter and syllabus status.

The following assessments are made:

1. Performance in the University examinations
2. Performance in the internal examinations
3. Involvement in co-curricular & extra-curricular activities
4. Live & real time projects done by students
5. Performance in various competitive exams
6. Placement records

Positive Impact of Various activities:

1. Effective teaching learning process has resulted in maintaining a high passing percentage consistently from last three academic years.
2. Students are getting placed in reputed organizations increasing the placement records of institution.
3. Expert talks and internship programs have improved the knowledge and confidence of students.
4. Participation in various social and cultural activities have improved social awareness and helped the students for developing their personality.

File Description	Document
Any additional information	View Document

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 on website and communicated to teachers and students

Response:

Program Outcomes are established through the consultation process with stake holders keeping the Graduate Attributes, The Institute Vision, Mission and Program Educational Objectives in view.

Program outcomes, program specific outcomes and course outcomes for all programs offered by the college are clearly stated and displayed on the website for communication to teachers and students. It is

also displayed on the notice board and also included in each course module and teaching plan.

Apart from this, the stakeholders are informed about the Program outcomes through orientation programs, faculty workshops, student awareness workshops, and faculty meetings.

Table 2.6.1.1: Example of Course Outcome for Parallel and Distributed computing (BE Semester VII)

CO-1	To train the students with the concept of Parallel Computing because of the need and availability of growing number of core on a chip.
CO-2	To introduce the students one distributed programming framework.
CO-3	To assess the concepts of issues and tasks in parallel and distributed computing, different parallel architectures, programming models, and algorithms for common operations.
CO-4	They should know about different distributed systems and their architecture
CO-5	To provide the concept of massive-core GPUs and Parallel Programming

File Description	Document
Any additional information	View Document

2.6.2 Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution

Response:

The Institution has a set method of measuring program outcomes, program specific outcomes and course outcomes that ultimately improves the education quality of the college and graduate outcome. This is attained by taking inputs from the faculty, Student, Alumni, Industry and professional bodies linking into the positive outcomes.

The Attainment of PO, CO, PEO's is achieved by following methods.

1. Initially the listed program outcomes and course outcomes are gathered for different courses & the target levels are set
2. Calculations are done for attainment of course outcomes to program outcomes.
3. Each CO is mapped to PO to make a (CO-PO) matrix.
4. And this method is, evaluating the attainment of COs by using student's marks, where the student marks consists of final exam and internal term-work/tests.

5. Assessment-CO matrix is produced for each individual course.
6. All Program Outcomes and Program Specific outcomes are taken from the alumni and employers and this is incorporated in the formula for calculation of program outcome attainment. The weightage of attainment by indirect method is 20% in the calculation of Program outcome attainment.
7. The whole exercise is done for continuous quality improvement of the college. Based on the attainment values the teaching learning policies are modified and improved.

Following points are considered:

1. Continuous interaction with students by Subject teachers, HODs & Director.
2. Preparation and implementation of academic calendar.
3. Effective evaluation has been done by Academic monitoring committee of institution.
4. Continuous evaluation of syllabus and current status according to plan.
5. Regular Feedback from students and stakeholders.
6. Parent and Teacher meeting is planned for discussing regarding performance of student and for taking their feedback.
7. The Institution has a set method of measuring program outcomes, program specific outcomes and course outcomes that ultimately improves the education quality of the college and graduate outcome. This is attained by taking inputs from the faculty, Student, Alumni, Industry and professional bodies linking into the positive outcomes.
8. Initially the listed program outcomes and course outcomes are gathered for different courses The target levels are set
9. Calculations are done for attainment of course outcomes to program outcomes. Each CO is mapped to PO to make a (CO-PO) matrix.
10. Course wise result analysis is done and attainment is calculated.

Table 2.6.2.2: An example of calculations done for course outcomes to program outcomes

Course Outcomes	Program Outcomes													
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PO-13	PO-14
CO-1		Y			Y			Y					Y	
CO-2					Y						Y			
CO-3						Y				Y				
CO-4	Y								Y					Y
CO-5	Y	Y		Y									Y	Y

2.6.2.3 An example of result analysis (Class:- SE(CSE))

Appeared	Clear Pass	ATKT
16	5	11

2.6.2.4 An example of course wise result analysis

Semester - I					
Subject	EM-III	DE	DS	CN-I	LOS
Passing %	88	100	100	94	100
Subject Teacher	Prof. Kiran Shinde	Prof. Ansar	Prof. Vrushali Tapade	Prof. Hajgude A. B	Prof. Ansari M.B.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

2.6.3 Average pass percentage of Students**Response:** 64.66

2.6.3.1 Total number of final year students who passed the examination conducted by Institution.

Response: 86

2.6.3.2 Total number of final year students who appeared for the examination conducted by the institution

Response: 133

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.7 Student Satisfaction Survey**2.7.1 Online student satisfaction survey regarding teaching learning process****Response:**

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants for research projects sponsored by government/non government sources such as industry ,corporate houses, international bodies, endowment, chairs in the institution during the last five years (INR in Lakhs)

Response: 3.46

3.1.1.1 Total Grants for research projects sponsored by the non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution year-wise during the last five years(INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
0.63	2.73	0.1	0	0

File Description	Document
List of project and grant details	View Document
e-copies of the grant award letters for research projects sponsored by non-government	View Document

3.1.2 Percentage of teachers recognised as research guides at present

Response: 0

3.1.2.1 Number of teachers recognised as research guides

3.1.3 Number of research projects per teacher funded, by government and non-government agencies, during the last five year

Response: 0

3.1.3.1 Number of research projects funded by government and non-government agencies during the last five years

3.1.3.2 Number of full time teachers worked in the institution during the last 5 years

Response: 386

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations including incubation centre and other initiatives for creation and transfer of knowledge

Response:

An unprecedented growth in Indian economic scenario, scripted by technological advancements have put forth tremendous opportunity for believers of 'Make in India'. As more foreign investments are getting introduced to the Indian research, innovation and production sector, it is a true challenge for establishments at all levels, in our country to nurture and nourish innovative ideas towards an end product with commercial viability and a globally competitive signature.

The challenges are stiff while a perfect ecosystem needs to be sustained to let the dreams see a concrete daylight – and we, at **Shri Bhujangrao Kulkarni Innovation Incubation and Entrepreneurship Cell at ICEEM**, steadfastly stand to ensure timely conversion of idea into products, to address immediate and long term market niche.

Shri Bhujangrao Kulkarni Innovation Incubation and Entrepreneurship Cell at ICEEM (SBK-IIEC@ICEEM), as an offbeat practice, vows to provide and maintain an ecosystem to identify market niche, module training/mentorship to early stage technical students in order to develop innovative and entrepreneurial mindset, apart from supporting ready techno startups. The innovation cell ecosystem is structured through a solid support of complete gamut of technical laboratories/testing facilities available at institute level and a strong network of industry setups and globally recognized research laboratories where the incubates find a most enduring environment to nurture their ideas towards first prototype. In the next course, through a meticulously constituted panel of mentors, necessary guidance is provided to reach the level of mass production, commercial market and entrepreneurship. Through thoughtfully created channels, the incubation centre also guides about financial needs for startups.

In order to cater the immediate needs of budding innovators/ entrepreneurs, the centre offers adequate incubate cubicles with internet facility, shared common office space, shared printers and fax machine, a meeting room and a laboratory with all necessary amenities. The Centre also has ready space to be offered to selected startups to establish their production units.

Through a dedicated panel of mentors, highly experienced advisory committee and an exuberant working committee, the centre initially works forward to focus on Techno-Agricultural sector and the local necessities of Western Maharashtra (Marathwada), with a clear locus of addressing global issues in years to come.

1. List of activities:**Patent Applied:**

Sr. No.	Title	Application Number	Inventors	Application Year
1	A System & device for reducing gas consumption	TEMP/E-1/42395/2017 -MUM	ANKUR SANJAY ANPAT and DEEPAK	2017

			BANDU ARDE	
2	WIND VENTILATOR BASED ELECTRICITY GENERATION SYSTEM	Patent Application No: "201621031935" dated 19/09/2016	POONAM RAJU BADGUJAR	2016

- **Startups:**

Selected and Signed MOU for startup by Chamber of Marathwada Industries and Agriculture (CMIA), Aurangabad, Maharashtra

Name of the Project: A SYSTEM AND DEVICE FOR REDUCING GAS CONSUMPTION

Application of the Project: All type Beverage and soft Drink manufacturing units

Patent File No.: TEMP/E-1/42395/2017-MUM

Total Number of 6 MoU's signed with industries for research and development purpose.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

3.2.2 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the last five years

Response: 10

3.2.2.1 Total number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
2	2	3	1	2

File Description	Document
Report of the event	View Document
List of workshops/seminars during the last 5 years	View Document
Any additional information	View Document

3.3 Research Publications and Awards

3.3.1 The institution has a stated Code of Ethics to check malpractices and plagiarism in Research

Response: No

File Description	Document
Institutional data in prescribed format	View Document

3.3.2 The institution provides incentives to teachers who receive state, national and international recognition/awards

Response: No

3.3.3 Number of Ph.D.s awarded per teacher during the last five years

Response: 0

3.3.3.1 How many Ph.Ds awarded within last five years

Response: 2

3.3.3.2 Number of teachers recognized as guides during the last five years

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	View Document
Any additional information	View Document

3.3.4 Number of research papers per teacher in the Journals notified on UGC website during the last five years

Response: 0.96

3.3.4.1 Number of research papers in the Journals notified on UGC website during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
27	10	9	16	12

File Description	Document
List of research papers by title, author, department, name and year of publication	View Document
Any additional information	View Document

3.3.5 Number of books and chapters in edited volumes/books published and papers in national/international conference proceedings per teacher during the last five years

Response: 0.51

3.3.5.1 Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
16	6	6	6	5

File Description	Document
List books and chapters in edited volumes / books published	View Document
Any additional information	View Document

3.4 Extension Activities

3.4.1 Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the last five years

Response:

The Institute regularly conducts activities from last 7 years to enhancing the social awareness regarding environmental Awareness, Awareness towards Public health & Safety. The activities which were categorized in above main Categories are explained below in detailed Manner.

1. Social Awareness Activities:

1. Celebration of birth ceremonies of Great Legends:

In social awareness activities, activities which shows tribute to the legend peoples who have gave up their lives for the enrichment of humanity were conducted such as birth ceremony of Legends like Dr. Babasaheb Ambedkar, freedom fighter Savarkar, Mahatma Gandhi, Sardar Vallabhbhai Patel etc. were celebrated on which the work which they did for the humanity was recalled & tried to implement the thoughts which they have given for the society to become a great personality.

1. Blood donation Camp:

Every man has a debt. i.e. social debt. Every man who lives in society has to give his contribution towards the development as well as for upliftment of the society as a duty of humanity. Remembering the duty of humanity, there are three blood donation camps were arranged in our institute in which near about 350 bottles of blood were donated to Dattaji Bhale Blood Bank Aurangabad & Government Hospital Blood Bank Aurangabad.

2) Environmental Awareness:

1. Tree Plantation Activity:

In tree plantation Activity conducted in College Campus, Approximately 1500 trees were planted in campus to make green Campus as well as to contribute for making the campus pleasant as well as contributing to stopping the erosion of soil due to tree cutting. Not only the trees are planted in the campus, but the maintenance of the planted tree was also carried in regular periodic interval.

1. Say No To Plastic Campaign:

In today’s day to day life, the use of plastic is increased tremendously. The scrap disposal management of Plastic sewage is becoming hectic & critical issue. The danger of plastic waste is killing the animals also which they ate the material wrapped in plastic. To minimize use of plastic carry bags in market, Our College & NSS unit distributed 10,000 bags to avoid the use of plastic carry bags. At the same time people are motivated to avoid the plastic bags by our college.

1. Cleanliness Drives:

Various cleanliness drives are arranged by the NSS Unit which includes the various places of Aurangabad such as Deogiri Fort Daulatabad, Bajaj Nagar, Pandharpur, Karnapura, Railway Station Aurangabad.

1. Health Check Up Camp:

Free Health checkup camp was arranged in college by NSS Unit in which 150 people taken the benefit of the Camp.

1. Special Camp:

Special camp was arranged in Lasur Station since 3 Years in which activities like rainwater harvesting, Beti bachao beti Padhao rally are conducted.

File Description	Document
Link for Additional Information	View Document

3.4.2 Number of awards and recognition received for extension activities from Government /recognised bodies during the last five years

Response: 6

3.4.2.1 Total number of awards and recognition received for extension activities from Government /recognised bodies year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
2	2	2	0	0

File Description	Document
Number of awards for extension activities in last 5 years	View Document
e-copy of the award letters	View Document

3.4.3 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the last five years

Response: 24

3.4.3.1 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
3	6	11	4	0

File Description	Document
Reports of the event organized	View Document
Number of extension and outreach programs conducted with industry,community etc for the last five years	View Document
Any additional information	View Document

3.4.4 Average percentage of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years

Response: 13.32

3.4.4.1 Total number of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
108	82	120	117	0

File Description	Document
Report of the event	View Document
Average percentage of students participating in extension activities with Govt or NGO etc	View Document
Any additional information	View Document

3.5 Collaboration

3.5.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc during the last five years

Response: 81

3.5.1.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
15	26	17	17	6

File Description	Document
Number of Collaborative activities for research, faculty etc	View Document
Copies of collaboration	View Document
Any additional information	View Document

3.5.2 Number of functional MoUs with institutions of National/ International importance, Other Institutions, Industries, Corporate houses etc., during the last five years (only functional MoUs with ongoing activities to be considered)

Response: 9

3.5.2.1 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years (only functional MoUs with ongoing activities to be considered)

2017-18	2016-17	2015-16	2014-15	2013-14
2	2	5	0	0

File Description	Document
e-copies of the MoUs with institution/ industry/ corporate house	View Document
Details of functional MoUs with institutions of national, international importance, other universities etc during the last five years	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The institution has adequate facilities for teaching- learning. viz., classrooms, laboratories, computing equipment, etc.

Response:

The vision of the college management is to constantly improve the students learning environment by providing infrastructure that is at par with the prestigious institutions of India. The college is actively trying to improve the quality of the knowledge imparted on the students, our policy allows us to be flexible and adapt to the current needs of our students so that we are able to bring the best out of them.

The campus is spread over an area of 11 acres with a plinth area of 12838 sq.m. comprising buildings of high-standard, classrooms with proper ventilation, numerous laboratories, seminar halls, library, indoor and outdoor stadiums.

Instructional Area

Room Type	Total Nos	Area in Sq. m
Class Rooms UG	15	990
Tutorial Rooms UG	04	132
Class Rooms PG	02	132
Tutorial Rooms PG	01	33
Workshop Basic	01	200
Additional Workshop	02	400
Drawing Halls	02	264
Seminar Hall	03	396
Laboratories	32	2112

Administrative Area

Room Type	Total Nos	Area in S
Principal Office	01	45
Board Room	01	21
Office all Inclusive	01	300
Department Offices/Cabin for HOD	10	100
Central Store	01	32
Maintenance	01	10
Security	01	10
Housekeeping	01	10
Pantry for Staff /Faculty	01	10
Exam Control Office	01	30
Training Placement Office	01	66

Amenities Area

Room Type	Total Nos	Area in Sq. m

Boys Common Room	01	100	
Girls Common Room	01	100	
Cafeteria	01	150	
Stationary Stores and Reprography	01	10	
First Aid cum Sick Room	01	10	
File Description		Document	
Link for Additional Information		View Document	

4.1.2 The institution has adequate facilities for sports, games (indoor, outdoor),gymnasium, yoga centre etc., and cultural activities

Response:

Sports facilities have been established for various games inclusive ofCricket, Volleyball, Kabaddi and Badminton, Table Tennis, Chess, Carom, to ensure the focus of the institute in providing extra-curricular activities to the students.

Sr No	Sports/Indoor Outdoor Gymnasium	or Games/ Gymnasium	No of Courts	Area	Year of Establ	
01	Vollyball		01	9M X 9M	2012	
02	Badminton		01	13.4M X 6.1 M	2012	
03	Gym		01	66	2012	
04	Cricket		01	137 M	2012	
05	Table Tennis Chess, Carom,		01	66	2012	
06	Kabaddi Ground		01	13m X 10M	2015	

Sports Complex (Indoor)

Chess

Shuttle Badminton

Table Tennis

Carrom

Sports Complex (Outdoor)

Cricket

Volleyball

Kabaddi

Gymnasium:

Weight lifting

Dumbbell sets

Cultural Activities

To explore and nourish the hidden talents among the students, every year institution organizes various cultural events. To boost stage confidence and leadership abilities, students are trained for anchoring of various events. **Jalsa** – Cultural event organized every year.

File Description	Document
Link for Additional Information	View Document

4.1.3 Percentage of classrooms and seminar halls with ICT - enabled facilities such as smart class, LMS, etc**Response:** 100

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 20

File Description	Document
Number of classrooms and seminar halls with ICT enabled facilities	View Document
any additional information	View Document

4.1.4 Average percentage of budget allocation, excluding salary for infrastructure augmentation during the last five years.**Response:** 100

4.1.4.1 Budget allocation for infrastructure augmentation, excluding salary year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
346	452	212	326	299

File Description	Document
Details of budget allocation, excluding salary during the last five years	View Document
Audited utilization statements	View Document

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS)

Response:

The Library of International Centre of Excellence in Engineering and Management (ICEEM) College is fully Automated using Integrated Library Management Software (ILMS).

Name of the ILMS Software: DEL-PLUS

DELNET has developed several software in the past, but at present serves the following:

(i) DEL-PLUS

1. Software designed and developed exclusively to work under all kinds of libraries.
2. Free up gradation
3. Follows internationally recommended standards and formats such as MARC 21
4. Best for small and medium size libraries which have collections up to one lakh holdings.
5. Barcode enabled.

This software is easy to work with and comprises the following modules:

- Acquisition
- Cataloguing
- Circulation
- OPAC
- Administration
- Export/Import
- Authority Control
- Article Indexing
- Report Generation
- Stock Verification

Apart from this the library has unique features as mentioned below:

This library located on first floor of the college building. Total Carpet area measuring 400 sqm & security features such as CCTV Cameras, Fire extinguisher & various important notice display board.

Library rationally organized into seven sections namely:

- 1.Circulation Counter, OPAC
- 2.Periodical Stand & Reference Counter.
- 3.Reading Hall
- 4.Staff Reading Section
- 5.Property Rack
- 6.e – Library for e – Resource Access.
- 7.News Paper Reading Section.
- 8.Reprography Section.

Special features of Library include huge collection of Print & Electronic Books as follows;

- Total No of Titles :1915
- Total No of Volumes of Printed Books:11523
- Total Titles of e-Books:1622+
- Printed Journals:36
- e-Journals:400+

The Library is a Member of National Digital Library (NDL), National library networks-DELNET (Developing Library Network-Delhi) & is having Remote Access of Dr.B.A.M.University, Aurangabad Library e-Resources, Inter Library Loan, Wi-Fi Facility.

Fig.4.2.1 1: Monthly Circulation Transactions Computed Through: Graph

Fig.4.2.1 2: Distribution of Books Collections.

Total Collections: 11525.

Book Circulation:8125

Reference Book:2118

Donated Books:1284

Name of the ILMS Software	Nature of Automation	Version
DELPLUS	FULL	2.0

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

4.2.2 Collection of rare books, manuscripts, special reports or any other knowledge resources for library enrichment

Response:

Collection of Rare Books – 95 Nos. (Encyclopedias + Handbooks + Dictionaries + Costly Books)

Videos beyond syllabus – 10 CD

Gate and Competitive exam books -50 Nos – Library is providing resource for higher education and career guidance.

Book Bank -600 volumes – Book Bank facility is one of the important facilities for students coming from under privileged section of the society.

Project reports – 450

Library has also made provision for students to refer old question papers for preparing their examination.

Sr.No	Name of Book	Name of Publisher	Name of Author	Number of Copies	
1)	The Indian Economy	Viking	BimalJalan	01	
2)	The World's Great Speeches	GoodWill's	Ahuja B N	01	
3)	Techno-Economic Survey of-- Maharashtra		N C A E R	01	
4)	Social Work	Allyn & Bacon	Morals Sheafor	01	
5)	From Slavery to Freedom	Amerind	Franklin Johan Hope	01	
6)	Long Walk to Freedom	Back Bay	Nelson Mandela	01	
7)	Employment & Development of Small World bank	Small Enterprises	Small Enterprises	01	
8)	World's Great Lives	Book Palace	AbrarMohsin	01	
10)	AapliJalsampatti	National Book	Ram	01	
11)	Industrial Policy & Backward Regions	Chitra	Srivastava D C	01	
12)	The Audacity of Hope	Crown Publication	Barack Obama	01	
13)	Policy formulation & Admin	Richard	Christensen C Roland	01	
14)	Booker T Washingtan	Oxford	Harlan Louis R	01	
15)	All Politics Is Local	Times Books	O'Neill Tip	01	
16)	Administration	Oxford	Lepawsky Albert	01	
17)	Strategies for Technical Writing	Holt Rinehart	Law Mary M	01	
18)	Rivers of India	National Book	BharatiRadhakant	01	
19)	Inside the Japanese System	Stanford	Okimoto&Rohlen	01	
20)	Reporter's Life	Knopf	Cronkite Walter	01	
21)	Science	History e book	Vannevar Bush	01	
22)	Multicriteri Evaluation	Pion Ltd	Voogd H	01	
23)	The Karma of Brown Folk	Minnesota	Prashad Vijay	01	
24)	My American Journey	Random House New York	Powell Colin L	01	
25)	Barbara Bush	St.Martin's	Memoir A	01	
26)	Off Camera	Vintage book	Koppel Ted	01	
27)	SinchanCintan	Printwell	More D M	01	
28)	SinchanSadhana	Printwell	More D M	01	
29)	Dr. S Radhakrishnan	Sales Emporia	Nagaraja Rao P	01	

30)	George Washington Carver Scientist & Symbol	Oxford University	McMurry Linda O	01	
31)	The Autobiography of Malcolm X	Ballantine	Haley Alex	01	
32)	Bill Clinton My Life	Vintage	The Presidential Years	01	
33)	Lee Lacocca's Talking Straight	Bantam	Lacocca Lee	01	
34)	Dianetics	Bridge Pub	Hubbard Iron	01	
35)	Public Sector Banking in Maharashtra Jal va Sinchan Aayog	---	Rangaswamy B	01	
36)	The Money Makers	BBC	Lomax David	01	
37)	Modern Arms & Free Men	Simon	Bush Vannevar	01	
38)	Concepts & Procedures in Indian Census	Criterion	Mahatma Anand	01	
39)	The Age of Turbulence	Penguin	Greenspan Alan	01	
40)	A Reporter's Life	Ballantine	Walter Cronkite	01	

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

4.2.3 Does the institution have the following:

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: A. Any 4 of the above

File Description	Document
Details of subscriptions like e-journals,e-ShodhSindhu,Shodhganga Membership etc	View Document
Any additional information	View Document

4.2.4 Average annual expenditure for purchase of books and journals during the last five years

(INR in Lakhs)**Response:** 3.87

4.2.4.1 Annual expenditure for purchase of books and journals year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
13.1	2.02	0.98	1.76	1.5

File Description	Document
Details of annual expenditure for purchase of books and journals during the last five years	View Document
Audited statements of accounts	View Document

4.2.5 Availability of remote access to e-resources of the library

Response: Yes

File Description	Document
Any additional information	View Document

4.2.6 Percentage per day usage of library by teachers and students

Response: 26.51

4.2.6.1 Average number of teachers and students using library per day over last one year

Response: 180

File Description	Document
Any additional information	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

The college has more than 20WiFi hotspots with extenders provided to cover the wireless range throughout the college. All computers in the campus are connected to the internet as it is essential for them to work, also surplus Ethernet ports are provided for laptops or other devices in need of internet connectivity.

A separate team with in-house staff is formed to take care of the IT & related needs of the campus such as Software Development, Hardware & Networking, Website designing & hosting, Email solutions, SMS solutions, CCTV Monitoring etc. The entire campus including Hostels has Wi-Fi connectivity and speed of the internet.

Updatons in IT Facilities and Wi-FI

Updation in System	Year of Updation
20 pcs updated from CORE 2 DEO to CORE i3 in Computer Dept	2016
20 pcs updated from CORE 2 DEO to CORE i3 in Language laboratory	2018

Wi-Fi Access Points were installed in the following various locations. Also, the Wi-Fi access points are updated constantly during regular intervals as and when required.

Ruckus Zone Flex 2741 – Purchased in 2012

Ruckus Dual Band 7363- Updated in 2013

Ruckus Zone Flex 7372 – Updated in 2014

Ruckus R510 – Update in progress in Gents Hostel (2017)

Sr No	Particulars
01	ZONEFLEX R500 DUAL-BAND 802.11ABGN/AC WIRELESS ACCESS POINT
02	Spares of Power over Ethernet (PoE) Adapter (10/100/1000 Mbps) with IN power adapter
03	901-7762-IN01, ZoneFlex 802.11n Outdoor Wireless Access Point,
04	901-1205-XX00, ZoneDirector 1200, licensed for up to 5 ZoneFlex Access Points

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

4.3.2 Student - Computer ratio

Response: 3.23

File Description	Document
Any additional information	View Document

4.3.3 Available bandwidth of internet connection in the Institution (Lease line)**>=50 MBPS****35-50 MBPS****20-35 MBPS****5-20 MBPS****Response:** 20-35 MBPS

File Description	Document
Any additional information	View Document

4.3.4 Facilities for e-content development such as Media Centre, Recording facility, Lecture Capturing System (LCS)**Response:** No

File Description	Document
Facilities for e-content development such as Media Centre, Recording facility,LCS	View Document
Link to photographs	View Document

4.4 Maintenance of Campus Infrastructure**4.4.1 Average Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, as a percentage during the last five years****Response:** 7.11

4.4.1.1 Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
2.2	3.6	32.1	4.5	52.6

File Description	Document
Details about assigned budget and expenditure on physical facilities and academic facilities	View Document
Audited statements of accounts.	View Document

4.4.2 There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

Response:

The college has appointed several personnel for maintaining the infrastructure by way of building maintenance, transport, furniture and generator operator in case of the power shuts down. Separate Complaint registers were maintained for various services like electrical, plumbing, housekeeping etc. The people, who work here on maintenance of the college, will report regularly about the breakage of instruments and devices to the higher authority.

Service Department	Number of Staffs
Electrical Works	01
Civil Works	01
Transport	05
Computer Servicing	02
House Keeping	15

Maintenance of sensitive equipment, Power and Water supply:

Category	Capacity	Total No
Generator for constant Power Supply	67 KVA	01
RO plant for constant Water Supply	2000 LPH	01
UPS for Computers Back Up	20 KVA	01
	20 KVA	01
	200 KVA	01
	7 KVA	01
Lift	6 Persons	01

For Computer Laboratories (Utilization and Maintenance)

Students and faculty members are provided separate login credentials to access the internet. Access to internet is provided in the lab even after college working hours.

Preventive maintenance and breakdown maintenance procedure is followed so as to ensure maximum availability of the systems in the lab. Installation of antivirus and firewall ensure that the software and system is secured. Weekly status check on the hardware and software condition of the machines is undertaken and the same is noted in a register. This ensures that the problem is identified and rectified at an early stage itself.

Breakdown maintenance wherein the system fails due to SMPS problem or boot failure is recorded in a register. If the problem is minor, the technical support staff of the lab will rectify it. For major failures, support from vendor is taken.

Periodic maintenance is done by regular cleaning of the lab spaces, software updates and antivirus updates.

Maintenance of Electrical and Electronic Equipment's:-

Regular checkup of equipment is carried out at the end of every semester.

Breakdown register is maintained in the laboratories.

As per the requirement minor repairs are carried out by the lab assistant of faculty member.

Maintenance of computers is taken care by IT and COMPUTER department.

Major repairs are outsourced by following the procedure of the institute.

The faulty trainer kits are serviced by service engineers of specified companies. The measuring instruments are calibrated regularly by standards companies.

Stock verification is done at the end of every year by the staff members from other department and the report is submitted to the Principal.

File Description	Document
Any additional information	View Document

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years

Response: 79.14

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
507	587	466	502	335

File Description

Document

Upload self attested letter with the list of students sanctioned scholarships

[View Document](#)

Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years

[View Document](#)

5.1.2 Average percentage of students benefited by scholarships, freeships, etc. provided by the institution besides government schemes during the last five years

Response: 26.3

5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution besides government schemes year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
548	178	42	21	15

File Description

Document

Any additional information

[View Document](#)

5.1.3 Number of capability enhancement and development schemes –

1. For competitive examinations
2. Career counselling

- 3. Soft skill development
- 4. Remedial coaching
- 5. Language lab
- 6. Bridge courses
- 7. Yoga and meditation
- 8. Personal Counselling

A. 7 or more of the above

B. Any 6 of the above

C. Any 5 of the above

D. Any 4 of the above

Response: A. 7 or more of the above

File Description	Document
Details of capability enhancement and development schemes	View Document
Any additional information	View Document
Link to Institutional website	View Document

5.1.4 Average percentage of student benefited by guidance for competitive examinations and career counselling offered by the institution during the last five years

Response: 9.38

5.1.4.1 Number of students benefited by guidance for competitive examinations and career counselling offered by the institution year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
20	174	85	15	0

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	View Document
Any additional information	View Document

5.1.5 Average percentage of students benefited by Vocational Education and Training (VET) during the last five years**Response:** 0

5.1.5.1 Number of students attending VET year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

File Description**Document**

Details of the students benefited by VET

[View Document](#)**5.1.6 The institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases****Response:** Yes**File Description****Document**

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

[View Document](#)

Details of student grievances including sexual harassment and ragging cases

[View Document](#)**5.2 Student Progression****5.2.1 Average percentage of placement of outgoing students during the last five years****Response:** 47.89

5.2.1.1 Number of outgoing students placed year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
34	76	77	49	12

File Description	Document
Self attested list of students placed	View Document
Details of student placement during the last five years	View Document

5.2.2 Percentage of student progression to higher education (previous graduating batch)

Response: 0

5.2.2.1 Number of outgoing students progressing to higher education

File Description	Document
Upload supporting data for student/alumni	View Document
Details of student progression to higher education	View Document

5.2.3 Average percentage of students qualifying in State/ National/ International level examinations during the last five years (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)

Response: 33.33

5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil services/ State government examinations) year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	9	8	0	0

5.2.3.2 Number of students who have appeared for the exams year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	9	12	3	0

File Description	Document
Upload supporting data for the same	View Document
Number of students qualifying in state/ national/ international level examinations during the last five years	View Document

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) during the last five years.

Response: 0

5.3.1.1 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-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at national/international level during the last five years	View Document

5.3.2 Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution

Response:

As per the provisions set under section 40(2)(b) of Maharashtra University Act 1994, There is establishment of student council at every year.

Students Council

(Academic Year 2017-18)

The purpose of the Students Council (SC) is to provide programs, activities and services which serve the co-curricular, cultural, social, recreational and educational interest of students at the University and Colleges. The SC seeks to contribute to the development of students' leadership skills and experience, program planning and development, volunteering, and fiscal management

"Students' Council" means the Students' Council established under section 99 of the Maharashtra Public Universities Act, 2016 (Mah Act ? VI of 2017). The act was passed on Thursday 08-12-2016 with a view to improve quality of higher education. The act has a number of innovative sections for the betterment of students, teachers, colleges and Universities. Section 99 of the act provides for the formation of student union or associated student body, which distinctively called as Students' Council. There shall be a University Students' Council and a College Students' Council for each affiliated college to look after the welfare of the students and to promote and co-ordinate the extra-curricular activities of different student's associations for better corporate life. It is specifically noted in the act that the Councils shall not engage in political activities. This chartered student council shall be authorized by University to receive and dispense students'

The Students' Council (SC) is the representative body of the entire student community of the International Centre of Excellence in Engineering & management (ICEEM), Aurangabad.

ICEEM Student Council's mission is to encourage and promote the values that represent good character in all students and build responsible leaders within student's community. Together with ICEEM Faculty, Staff and Alumni and University support, we seek to inspire visions and actions for a more ethical and just world through exchange of ideas and information.

Sr no		Name of the post
1	President	
2	General Secretary	
3	Sports Secretary	Mr Tareq Anwar
4		Reserve Male Representative Mr. Kabir Kulkarni
5	Cultural Representative	Miss Shyama Shivdas
6	Ladies Representative (Hostel)	
7		Ladies Representative (College) Mrs. Smita Divekar

Funding

There is no special funding from government bodies. The institute and council bares the responsibility of all expenses.

Activities

The Students' Council organizes many activities through its representatives viz.

- Annual Social Gathering
- Expert Talks
- Social Activities
- Technical Events
- Workshops
- Sports

- NSS Activities.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

5.3.3 Average number of sports and cultural activities/ competitions organised at the institution level per year

Response: 27.2

5.3.3.1 Number of sports and cultural activities / competitions organised at the institution level year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
28	27	28	26	27

File Description	Document
Report of the event	View Document
Number of sports and cultural activities / competitions organised per year	View Document

5.4 Alumni Engagement

5.4.1 The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and non financial means during the last five years

Response:

The Alumni Association of ICEEM i.e. “AAI” is registered with the Registrar of Societies. Training & Placement cell in coordination with the departments organizes alumni meet every year for interacting with the alumnus. Alumni meet involves dinner for the alumnus; different singing and dancing events where in alumni participate and share their testimonials.

Also, regular meeting of chapter are called to review the activities of the current year and plan the activities for the forthcoming year. AAI Facebook page, departmental what’s app groups, mail ids, etc. are available to connect with the alumni and conduct face to face alumni interaction programs.

AAI contributes to ICEEM in various ways like,

1. Alumni interact with the respective HODs and give them information regarding current trends and practices in the industries in which they work, so that suitable improvements in the infrastructure facilities can be made in the institution.
2. Alumni interact with the students so as to make them aware of the current industry scenario and guide them in preparing for campus interviews.
3. Graduates/post graduates who have passed out of the institution and are placed in companies, guide and help their immediate juniors to undergo the recruitment process with confidence.
4. Alumni visits institute to interact with the students to discuss different technical issues, providing guidance regarding higher studies, competitive exams, entrepreneurship and placements.
5. Alumni help in arranging seminars in key areas.
6. Alumni helps the department to identify the industries for students to undergo in plant training.
7. Alumni arrange for visit to the industry where they are employed.
8. They promote the institute in their vicinity of industry and living area resulting in increase in the rapport of institute with industries and increase in admission.
9. MBA (HR) Alumni helps in the recruitment process of students, either MBA or Engineering by giving opportunity to appear for interviews in companies where they are employed.
10. The alumni who are into entrepreneurship or business, recruits the students of final year for their company.

AAI also arranges different competitions for the junior students such as

1. Logo competition.
2. CAD competition.
3. Essay competition.
4. Other technical completions.

Where in some competitions faculty members can too participate.

This helps in up scaling the skill of students and bringing out their hidden talents. The winners of these competitions are felicitated at annual gathering or at the end of competitions.

Alumni is also invited for the annual gathering so as to enjoy function and recall the moments of their student life.

They give Feedback on program outcomes to enhance teaching/learning process of the parent department so as to improve quality of institute.

The alumni association is not too old and doesn't have huge numbers but they are growing day by day and helping the institute to make students ready for the outside world.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

5.4.2 Alumni contribution during the last five years(INR in Lakhs)

? 5 Lakhs

4 Lakhs - 5 Lakhs

3 Lakhs - 4 Lakhs

1 Lakh - 3 Lakhs

Response: <1 Lakh

File Description	Document
Alumni association audited statements	View Document

5.4.3 Number of Alumni Association / Chapters meetings held during the last five years**Response:** 3**5.4.3.1 Number of Alumni Association /Chapters meetings held year-wise during the last five years**

2017-18	2016-17	2015-16	2014-15	2013-14
3	0	0	0	0

File Description	Document
Number of Alumni Association / Chapters meetings conducted during the last five years	View Document
Any additional information	View Document

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the institution

Response:

VISION

- To provide technical education of internationally acceptable high quality to students and to develop among them character, competence, and commitment to dedicated service for the advancement and welfare humanity.
- ICEEM aspires by 2025 to be one of the hundred best Engineering & Management College Campuses in India.
- ICEEM aspires to be the institute with cardinal focus mainly on practice-based learning. Impart and harness vocational skills of both National and International standards.
- ICEEM aims by 2030 to have well equipped Incubation Centre for Research and Development activities.

MISSION

- To impart quality professional education to the students in field of Engineering & Management.
- To develop entrepreneurial skills and attributes among the students.
- To nurture and harness student's employability skills.

ICEEM Values

- ICEEM's most important value is the pursuit of knowledge with integrity and commitment and to promote development of integrated community.
- The promoters have founded ICEEM purely as their humble contribution to India's march to greatness. The rules, accordingly, set a course for its governance based upon selfless service, integrity and efficiency. ICEEM shall always attempt for improving employability of its students and securing appropriate placements to them.
- The ICEEM Charter is made to declare the mission, vision and the values which the ICEEM shall follow and accomplish through various activities. The Charter also provides for ICEEM's organizational structure and describes the duties, responsibilities and powers as well as performance appraisal and accountability of ICEEM's various authorities, office bearers and officers. The Charter may also be called ICEEM's Rules of Governance or ICEEM's Articles of

Organization.

- ICEEM has its unique forte as an Educational Institute, that it has been established in Industrial Vicinity. And the Institute is being governed by successful Bureaucrats and Technocrats.

Governance

- Indian Institute of Rural Workers (IIRW) and the Institute of Technology, Management and Research (ITMR) are two registered charitable societies and public trusts. They have jointly established ICEEM as a joint venture with a commitment for nurturing internationally acceptable excellent quality technical education and research in Engineering and Management. Several industrial bosses, successful Entrepreneurs, Educationists, Engineers, Social Workers two of them of world fame and Administrators are among the founders and members of these two societies.
- The Board of Governors (BOG) shall be the chief academic and administrative authority for ICEEM. It shall provide leadership and from time to time, set policies and directions and organizations’ overall programme from year to year and engage in longer range planning and monitoring of execution of various plans, programmes and activities taken up for accomplishing its mission.
- With a view to have division of work and to allow for a detailed analysis of specific areas before they are discussed in the BOG, ICEEM shall have two committees viz.
 - Academic and Research Council (ARC) for academic and research sectors, and
 - The General Management Council (GMC) for general (other than academic) matters.

The two committees shall function as Authorities of ICEEM and help to accomplish the BOG’s work effectively.

File Description	Document
Any additional information	View Document

6.1.2 The institution practices decentralization and participative management

Response:

Decentralization

Institute has a mechanism for delegating authority and providing operational autonomy to all the various functionaries to work towards decentralized governance system.

Director Level

Governing Body delegates all the academic and operational decisions based on policy to the Academic Research Committee. Director shall be Vice Chairman of ARC and Secretary of GMC.

Faculty Level

Faculty members are given representation in various committees/cells and allowed to conduct various

programs. They are given authority to conduct industrial tours and to have tie up with industry experts and appointed as coordinator for organizing various events.

Student Level

Students are empowered to play an active role as a coordinator of co-curricular and extra-curricular activities, social service group coordinator.

Committee/cell/Coordinator	Roles and responsibilities
Director	Implementation and monitoring of academic and administrative system to cater to vision and mission of the institute
Academic Research committee	Academic development and monitoring
Examination committee/College Examination Officer	Internal & University examination activities
NSS Coordinator	NSS activities
Training placement and career counseling cell	Training and Placement activities
Entrepreneurship Development Cell	EDC activities
Cultural and Sports committee	Planning, execution and supervision of cultural and Sports activities
Student grievances redressal committee	Attending and redressal of student's problems
AO	Supervision and management of all administrative functions
Accountant	Management of finance and account activities
Library Committee	Management of learning resources
Anti-ragging committee	Prevention and action against ragging cases
Vishakha Committee	Prevention and action against Women Harassment
SC /ST CELL	Issues of SC/ST students.

Participative management

Institute promotes a culture of participative management by involving the staff and students in various activities.

Strategic Level

The Director, academic co-coordinator and staff members are involved in defining the policies and procedures, framing guidelines and rules & regulations pertaining to admission, placement, discipline, grievance, counseling, training & development, and library services etc. and effectively implementing the same to ensure systematic functioning of the institute.

Case study: Academic Research Committee (ARC)

Role: ARC is centralized committee responsible for drafting, regulating and implementing academic policies.

Activities conducted by ARC:

- ARC monitors the teaching learning process. It prepares the academic calendar of the institute which reflects University's academic calendar that includes all activities.
- Academic coordinator is responsible for confirmation and observation of academic activities.
- Academic coordinator confirm lab and course file audit, does defaulter counseling, acts against findings, issues appreciation and show cause notice and gives input to IQAC
- ARC does lab and course file audit before commencement of semester and in the middle of semester, random confirmation of attendance once in a month.
- Class In charge ensures smooth conduction of practical and lecture of class, prepare roll call list, does result analysis, takes feedback and syllabus coverage after 15 days, does student counseling and undertaking two times and takes monthly attendance.

Outcome:

Meetings are held periodically for discussing the issues and challenges, developmental aspect of the Institute. Thus, the institute encourages teachers, students, parents, corporate resource persons, employers, alumni, staff, class coordinators and class representatives to share their ideas, opinions, suggestions through proper channels.

File Description	Document
Any additional information	View Document

6.2 Strategy Development and Deployment

6.2.1 Perspective/Strategic plan and Deployment documents are available in the institution

Response:

One of the Strategic initiatives of our Institute was to promote research and innovation work to attain this strategic objective ICEEM has successfully signed MOU with RUSA research Centre of Dr. BAMU

Purpose

This Memorandum of Understanding serves as a written understanding of agreed upon Directors between RUSA-CAST, Dr. BAMU and ICEEM, Aurangabad concerning a set of general research objectives.

This is a non-binding agreement and is intended to clarify the nature and extent of the complementary activities that might be undertaken for the mutual benefit of the two parties.

Commitments of specific institutional resources, personnel, space, facilities, or any other academic or intellectual activities may be contemplated hereunder but are beyond the scope of this MOU.

To the extent that the implementation of any agreed upon activity requires a commitment of resources, personnel, credit-bearing coursework, or intellectual property.

Objectives, Scope and Major Activities

Both institutions agree to encourage the development of the following types of activities:

- Visits and informal exchanges of faculty, researchers and administrators in areas of research.
- Explore the possibilities for developing joint research programs and collaborations.
- Explore ways to cooperate in researcher education and training.
- Organize joint conferences, symposia, or other scientific meetings on subjects of mutual interest.
- Pursue avenues for undergraduate student exchange during the academic year or summer terms.
- Other exchange and cooperation programs to which both parties agree.

1. Responsibilities of the Parties

The two parties recognize that the implementation of any agreed upon activity will depend upon the interests and expertise of the individuals involved and the availability of financial resources, spaces and other resources. Accordingly, the implementation of any exchange and cooperative program based on this MOU shall be separately negotiated and determined between the two institutions.

Duration and Option to Amend, Extend or Terminate

This MOU will become effective when signed by both parties. This agreement will remain in effect for five years from the signature date, below and may be renewed or amended by mutual agreement of the parties. Either party may terminate this MOU at any time by providing written notice of such termination to the other party.

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (MOU) is entered into on this the 28/03/2018 between

- **DEEN DAYAL UPADHYAY KAUSHAL KENDRA (DDU-KK)**, Dr. Babasaheb Ambedkar Marathwada University, represented herein by its DIRECTOR (hereinafter referred as 'First Party')
- **International Centre of Excellence in Engineering and Management, Aurangabad,**

WHEREAS:

1. Deen Dayal Upadhyay Kaushal Kendra, Dr. BAMU, the First Party is premier institute engaged in Vocational Education, Skill Development, and R&D Services.
2. First Party & Second Party believe that collaboration and co-operation between themselves will

promote more effective use of each of their resources.

3. The Parties intent to cooperate and focus their efforts on cooperation within area of Skill Based Training, Education and Research.
4. Both Parties, being legal entities in themselves desire to sign this MOU for advancing their mutual interests.

Second Party is a Technical Educational Institution named: ICEEM, Aurangabad. and represented herein by its DIRECTOR

File Description	Document
Any additional information	View Document
Strategic Plan and deployment documents on the website	View Document
Link for Additional Information	View Document

6.2.2 Organizational structure of the institution including governing body, administrative setup, and functions of various bodies, service rules, procedures, recruitment, promotional policies as well as grievance redressal mechanism

Response:

College has well defined pyramidal organizational structure with the Chairman at the helm of all affairs followed by the College Director, governing body and the administrative setup supervised by the administrative officer. There are various committees constituted for cohesive functioning of the Institute.

- It is a process of providing strategic leadership by setting direction, making policy and strategic decisions, overseeing and monitoring organizational performance, and ensuring overall accountability. They have regular working committee meetings with the Principal. The Principal is also a special invitee at the

Governing Body meetings. The management and the Principal are also members of Academic & Research Council (ARC).

The role of the BOG is:

- To provide effective leadership to enhance quality and performance of the institution.
- To motivate, empower and encourage the Principal and staff to enhance their performance of duties
- To encourage innovation and excellence
- To be open and flexible to change
- To ensure the sustainability of the institution.
- To foster values and help students in their spiritual growth through Value Education programmes and activities like NSS for students belonging to the community.
- To provide the necessary infrastructure (beautiful and greenery campus, technology- enabled class rooms, learning spaces, laboratories, computer) for staff and students.

- To ensure the safety of women staff and students by employing well trained and vigilant security staff both men and women.
- To consult the Principal on any administrative matters.

Role of Various Committees:

Institute forms various Committees/bodies/cells and their functions are properly defined, considering the overall development of the institute. For effective implementation and improvement of the institute following committees are formed: Periodic Meetings of these committees are conducted and minutes of meeting of each committee are well maintained.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.2.3 Implementation of e-governance in areas of operation

- 1.Planning and Development
- 2.Administration
- 3.Finance and Accounts
- 4.Student Admission and Support
- 5.Examination

- A. All 5 of the above
- B. Any 4 of the above
- C. Any 3 of the above
- D. Any 2 of the above

Response: B. Any 4 of the above

File Description	Document
Screen shots of user interfaces	View Document
ERP Document	View Document
Details of implementation of e-governance in areas of operation Planning and Development,Administration etc	View Document

6.2.4 Effectiveness of various bodies/cells/committees is evident through minutes of meetings and implementation of their resolutions

Response:

Institute forms various Committees/bodies/cells and their functions are properly defined, considering the overall development of the institute. For effective implementation and improvement of the institute following committees are formed: Periodic Meetings of these committees are conducted and minutes of meeting of each committee are well maintained.

Example

One of this committee is training and placement cell. The meeting was conducted by Head T&P cell Prof. Y M Khan on 22nd June 2017 at T&P Cell. Following members were present for the Meeting.

- Ms. Kavita Shingi (CSE Dept)
- Mr. Ansar Ahmed (ETC Dept)
- Mr. Pranav Bansode (CIVIL)
- Mr. M.A. Satpute (MECH)
- Mr. P.S Thigle (MECH)

Conducting Aptitude Tests

- At the very beginning of the academic year 2017-2018 the training and placement cell called a meeting on 22nd Jun 2017 regarding the action plan.
- It was decided in this meeting that so as to improve the employability quotient of the students, one of the important topic/factors of employability i.e. aptitude shall be covered in the first semester for final year students.
- Therefore, it was decided to incorporate this aptitude training in the academic time table itself centrally through the academic coordinator and conducting the lecture of aptitude training and test on topics taught on regular basis by the coordinators of training and placement cell.
- The aptitude training session was decided to be conducted on every Saturday from 10:00 AM to 12:00 PM except the holidays and the test on the topics taught on Saturday shall be conducted on every Monday 03:00 PM to 05:00 PM except the holidays. The time table of the aptitude training and aptitude test was then set according to the availability of the coordinator and topic to be covered.
- The aptitude lectures were conducted on Saturdays and the tests were conducted on Mondays as per the time table regularly, this activity was very helpful for the students who were interested for the job/employment, as this activity helped the students in understanding the various topics of aptitude and various shortcut methods for calculation which in lead to increase in the speed and accuracy of the solving

the test correctly.

As well as the fear of the facing the aptitude test was eliminated from the minds of the students', as a result of this many students cracked the aptitude test of different companies. This activity indeed helped to increase the employability quotient of the students. This activity was regularly monitored and was reviewed regularly by the head of T&P.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.3 Faculty Empowerment Strategies

6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

Response:

The main purpose of Performance appraisal and review process is to motivate employees. It should also encourage employees to put forth their best effort and take initiative at work to achieve both ICEEM's and their personal goals. Timely and accurate evaluation of any employee's success and shortcomings is very useful both to the employee and ICEEM. That leads to a better system of accountability

The Director shall be appraising performance of each individual The HODs and the AO shall in turn prepare performance appraisal reports of their own, their departments or sections and their junior teaching and non-teaching staff. All annual appraisal reports shall be presented to the Director for reviews. Those of the Director himself and his senior colleagues shall be presented to BOG

File Description	Document
Any additional information	View Document

6.3.2 Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 0.43

6.3.2.1 Number of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	2	0	0	0

File Description	Document
Details of teachers provided with financial support to attend conferences,workshops etc during the last five years	View Document
Any additional information	View Document

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

Response: 9

6.3.3.1 Total number of professional development / administrative training programs organized by the Institution for teaching and non teaching staff year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
5	6	4	5	25

File Description	Document
Details of professional development / administrative training programs organized by the Institution for teaching and non teaching staff	View Document
Any additional information	View Document

6.3.4 Average percentage of teachers attending professional development programs viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Program during the last five years

Response: 36.06

6.3.4.1 Total number of teachers attending professional development programs, viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Programs year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
33	51	12	28	15

File Description	Document
Details of teachers attending professional development programs during the last five years	View Document
Any additional information	View Document

6.3.5 Institution has Performance Appraisal System for teaching and non-teaching staff

Response:

The main purpose of Performance appraisal and review process is to motivate employees. It should also encourage employees to put forth their best effort and take initiative at work to achieve both ICEEM's and their personal goals. Timely and accurate evaluation of any employee's success and shortcomings is very useful both to the employee and ICEEM. That leads to a better system of accountability

The Director shall be appraising performance of each individual The HODs and the AO shall in turn prepare performance appraisal reports of their own, their departments or sections and their junior teaching and non-teaching staff. All annual appraisal reports shall be presented to the Director for reviews. Those of the Director himself and his senior colleagues shall be presented to BOG.

File Description	Document
Any additional information	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

The institute has a mechanism for internal and external audit. We have our own internal audit mechanism where internal audit is an ongoing continuous process in addition to the external auditors to verify and certify the entire Income and Expenditure and the Capital Expenditure of the Institute each year. Qualified Internal Auditors from external resources have been permanently appointed and a team of staff under them do a thorough check and verification of all vouchers of the transactions that are carried out in each financial year. Likewise, an external audit is also carried out on an elaborate way on quarterly basis. The institutional accounts are audited regularly by both Internal and statutory audits. So far there have been no major findings / objections. Minor errors of omissions and commissions when pointed out by the audit team are immediately corrected / rectified and precautionary steps are taken to avoid recurrence of such errors in future. The institute regularly follows Internal & external financial audit system.

File Description	Document
Any additional information	View Document

6.4.2 Funds / Grants received from non-government bodies, individuals, Philanthropists during the last five years (not covered in Criterion III) (INR in Lakhs)

Response: 0

6.4.2.1 Total Grants received from non-government bodies, individuals, philanthropists year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

File Description	Document
Details of Funds / Grants received from non-government bodies during the last five years	View Document

6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Response:

The institute has a well-defined mechanism to monitor effective and efficient utilization of available financial resources for the development of the academic processes and infrastructure development.

- Institutional budget is prepared by Director every year taking into consideration of recurring and non-recurring expenditures.
- Accordingly, all the administrative and academic heads are requested to submit the budget required for the subsequent financial year. Along with this all coordinators of different cells viz., R& D Cell, Exam Cell, T&P Cell, NSS Cell, etc. are instructed to submit their budget to Director.

All the major financial transactions are analysed and verified by the governing body under different heads like

1. Research & Development
2. Training & Placement
3. Software & Internet charges
4. Library Books / Journals
5. Repair & maintenance
6. Printing & stationary
7. Equipment & Consumables

SOP – Purchase:

1. Institute adheres to Utilization of budget approved for academic expenses and administrative expenses by management.
2. After final approval of budget, the purchasing process is initiated by purchase committee which includes all head of departments and account officer, accordingly the quotations called and after the negotiations purchase order are placed.
3. The payments are released after delivery of the respective goods it is done as per the terms and conditions mentioned in Purchase order.
4. All transaction has transparency through bills and vouchers. The bill payments are passed after testing & verification of items.
5. Respective faculty member ensures that whether suitable equipment/machinery with correct specification is purchased.
6. The entire process of the procurement of the material is monitored by the Purchase committee Accounts department and Director.

Institutional strategies for mobilization of funds and the optimal utilization of resources:

Major source of income of the institution is student fees. The institution has a mechanism to monitor effective use of funds. The deficit has been managed by Indian Institute of Rural Workers Trust. The management has well defined procedure to monitor effective and efficient utilization of available resources for infrastructure development and teaching-learning process.

The following procedure is adopted for the utilization of resources.

Expenses:

The sanctioned funds are utilized for the development of laboratories, procurement of books, journals, staff salary, development and maintenance activities, incremental development of Infrastructure etc. In case of any additional funds required for unplanned activities such as attending seminars / workshops / conferences / technical competitions, organizing co-curricular and extracurricular activities then the concerned faculty has to prepare a note stating the details of the importance with supporting documents. Once the sanctioned is received from the Management, the Director directs the HOD for utilization of requested sanctioned funds.

Audit:

The Accounts Section of the Administrative office verifies the expenses against the sanctioned amount carried out under various institutional / departmental activities from the supporting documents and remarks for the final settlement. Internal and external audits are carried out twice and once in every financial year respectively by the Chartered Accountant.

File Description	Document
Any additional information	View Document

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

Response:

IQAC has contributed significantly for institutionalizing the quality assurance strategies and processes:

In pursuance for performance evaluation, assessment and accreditation and quality up-gradation, the College has established the Internal Quality Assurance Cell (IQAC). The prime task of the IQAC is to develop a system for conscious, consistent and catalytic improvement in the overall performance of institutions. IQAC monitors the teaching-learning process regularly through the Internal Academic Audit to be organized twice in a year.

The primary objectives ICEEM of IQAC are:

- To focus on the functioning of college for quality enhancement & facilitate quality culture.
- To the augmentation and integration among the various activities of the institution and institutionalize many good practices.
- To provide a sound basis for decision making to improve institutional functioning.
- To better internal communication.

Fig 6.5.1: IQAC flow chart

IQAC Strategies:

IQAC shall develop mechanisms and procedures for:

1. Ensuring timely, efficient and progressive performance of academic and administrative task
2. Optimization and integration of modern methods of teaching and learning and evaluation
3. The reliability of evaluation procedures
4. Ensuring the adequacy, maintenance and functioning of the support structure and services

IQAC Functions:

1. To develop a system for conscious, consistent and catalytic action to improve the academic and administrative performance of the institution.
2. To promote measures for institutional functioning towards quality enhancement through internalization of quality culture and institutionalization of best practices.
3. Apart from regular class work ICEEM - IQAC shall take following special efforts for the students who are weak in studies:
 - Identifying subject wise weak students;

- Conducting remedial classes;
- Solving personal difficulties;
- Assigning homework and tutorials;
- Confidence building by solving previous examination papers;
- Providing notes on important topics, and model answers of important questions.

4. Adopting a Selected Group for Special Care:

- To understand personal problems and help overcoming of deficiencies;
- To build confidence among the students;
- To motivate for accepting challenges;
- To help in career planning;
- To create awareness about competitive world;
- To develop positive attitude;
- To help to solve problems with other students or teachers.

5. Interactive sessions with eminent personalities.

- Department shall organize at least 2 motivational lectures of eminent personalities&2 guest lecturers in an academic year for BE / MBA students separately.

Strategies and Processes:

1. Governance:

Various committees conduct their meetings as per the meeting calendar and maintain the minutes of meeting.

2. Internal Audit:

The IQAC has proactively developed the mechanism for the internal academic and administrative audit of the various departments of college and working committees. The audit of the department and committee are carried out once in a semester.

3. Teaching learning:

To enable optimum review of teaching learning process a structural mechanism has been established through the IQAC and various teaching methodologies have been established.

File Description	Document
Any additional information	View Document

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms

Response:**The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms**

The IQAC has been set up as per norms since 2017 & before that the ARC (Academic Research Council) was active which was performing the same functions of IQAC. To enable optimum review of teaching learning process a structural mechanism has been established through IQAC. It has a unique mechanism of implementing, monitoring teaching and learning process. Assessment methodologies and feedback mechanism have been established to enable periodic evaluation of learning outcomes by the IQAC. The IQAC meetings are to be scheduled at least once in a semester and the frequency may increase as per need of time & the suggestions from the DAC & BOG. Some of the Teaching Learning methodologies implemented in the College through APMC and IQAC initiatives and their outcomes are given below:

Table 6.5.2.1: Methodologies and outcome of teaching learning process.

Sr. No.	Methodology	Outcome
1	Macro-planning: After analysis of previous years feedback and assessment and consideration Dr BAMU academic calendar the IQAC along with inputs from DAC & BOG the IQAC develops the College annual calendar/planner	Ensures systematic academic implementation by design.
2	Micro-planning: Allotment of Courses to subject teachers, development/updating of course module and LMS/DMD. Preparation of daily academic time table and laboratory occupancy timetable.	Better curriculum delivery
3	Monitoring, Record Keeping and Communication: Attendance record, Teachers diary and use of attendance software, electronic-digital systems.	Better students' attendance is ensured and e-communication assured
4	Transparency: Communication of internal marks after evaluation to students and parents	Update parents about their child/ward's performance
5	Result Analysis and Review	Assessment of academic delivery of the faculty member

6	Add on programs and courses	Development of interpersonal, leadership, communication skills.
7	Feedback from stake holders	Suggest improvement in course delivery for better learning.

Another initiative taken by IQAC is implementation of course module. The course module represents the activities, resources and outcomes in a course to facilitate the learner to understand the various aspects as mentioned below.

Table 6.5.2.2: Particulars of course module and description.

Sr. No.	Particulars of the course module	Description
1	Course specifications	Provide the information about course code & program.
2	Course objectives	Enumerates objectives of course
3	Course outcomes	Expected outcome form the learner.
4	CO-PO matrix	Mapping of course outcome with program outcome
5	Teaching and assessment methods	Method of teaching and assessment are outlined.
6	Course contents (Theory/Practical)	Enumerates the teaching content to be delivered as per syllabus.
7	Assignment & tutorials	Schedule and number of assignment & tutorials
8	Learning resources	Referencesbook and other learning tools

9	Student support	Email/ LMS/ Faculty contact numbers
10	Schedule of assessment	Dates of summative and formative examination
11	Facilities required	Classroom, laboratories, equipment, instrument and other prerequisites
12	Course improvement process	Feedback mechanism for improvement of course content and delivery
13	Information of faculty member responsible for the course	Location, office hours and contact detail of faculty

File Description	Document
Link for Additional Information	View Document

6.5.3 Average number of quality initiatives by IQAC for promoting quality culture per year

Response: 0.8

6.5.3.1 Number of quality initiatives by IQAC for promoting quality year-wise for the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
2	1	1	0	0

File Description	Document
Number of quality initiatives by IQAC per year for promoting quality culture	View Document
IQAC link	View Document

6.5.4 Quality assurance initiatives of the institution include:

- Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback collected, analysed and used for improvements**

- 2. Academic Administrative Audit (AAA) and initiation of follow up action
- 3. Participation in NIRF
- 4. ISO Certification
- 5. NBA or any other quality audit

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: C. Any 2 of the above

File Description	Document
Details of Quality assurance initiatives of the institution	View Document
Any additional information	View Document

6.5.5 Incremental improvements made during the preceding five years (*in case of first cycle*) Post accreditation quality initiatives (*second and subsequent cycles*)

Response:

1. Syllabus:

Dr. Babasaheb Ambedkar Marathwada University provides curriculum and syllabi for Engineering and M.B.A. programs. The syllabus was revised periodically till date. Wherein few new subjects are introduced for ENTC, Mechanical engineering, CSE, Civil Engineering and M.B.A. as well. These newly introduced subjects were in-line with recent trends in the respective fields. The Recent revision of the syllabus inculcated Choice Based Credit & Grading System was introduced for both engineering as well as MBA. This new system was based on same 80/ 20 pattern of marking system, wherein 80 marks were allocated for Theory exam and 20 marks for Internal Assessment. This C.B.C.G.S. system also witnessed introduction of few new subjects like HSAD, EDS etc. for engineering and Indian Constitution and Yoga for MBA. Currently, we are running the aforementioned C.B.C.G.S. pattern.

Curricular Activities –

The Engineering program is of four years duration and MBA is of two years duration. These four years are divided into semesters. An academic calendar is prepared prior to start of semester. This academic calendar includes all the curricular activities, which will be undertaken in the upcoming semester. Accordingly, class time table is prepared and the classes are being conducted by the concerned faculty members. The lecture includes delivery of subject, giving assignments, conducting mock tests, taking spontaneous exams, group discussion among the students, performing practicals, industrial visits, soft-skill trainings etc. In the

first year all the subjects are common to all the students. From the second year on wards actual subjects of core branch/specialization are included in the syllabus. During the vacations inplant training of all MBA Students and interested Engineering students are arranged. In case of inplant training, the students undergo the short-term industrial training followed by a certificate. The major project is the part of final year, wherein the students are allowed to choose a project as per their field of interest & recent trends in their respective branch/specialization. Some projects are also sponsored by the industries to solve their problems. Lastly, the student prepares project reports in the form of hard bound copies, make power point presentations of their project reports and then undergoes assessment by an external faculty member. Finally, assignments are also given to students every mid - semester, to improve their subject knowledge and also writing skills.

These tutorials are assessed and the students are given feedback on their respective tutorials, based upon their performance. They are also guided on the pattern of external exams, time management, skills in writing, conduct during exams, etc.

File Description	Document
Any additional information	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Number of gender equity promotion programs organized by the institution during the last five years

Response: 5

7.1.1.1 Number of gender equity promotion programs organized by the institution year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
2	2	1	0	0

File Description

Document

Report of the event

[View Document](#)

List of gender equity promotion programs organized by the institution

[View Document](#)

7.1.2

1. Institution shows gender sensitivity in providing facilities such as:

1. Safety and Security
2. Counselling
3. Common Room

Response:

Institute has coordinated efforts to help both men and women by implementing various gender sensitization activities and programs for faculty and students. This helps students perceive gender roles in a proper manner.

Safety & Security:

1. CCTV camera-

Institute provides various facilities for staff and students with respect to their safety and security. 24/7 CCTV cameras were installed in the vicinity of campus area for close monitoring of activities for security reasons. Also, students were given safety training in due course of time.

1. Grievance handling system-

“Vishakha Samiti” was formed in the year 2016 headed by Prof. Vrushali Tapade of Department of for

handling grievances of female staffs and students. Also various activities this cell has been conducted like- Betibachao-BetiPadhao, Women harassment and Empowerment, etc were conducted.

Counseling:

Students are counseled by respective faculties on timely basis on respective areas. Institute has ‘Aadhar Scheme’ where students are allotted respective teacher guardians for guiding them both professionally and personally.

Common Room:

Institute has the facility of Common Room for boys and girls each. Hygiene is strictly maintained in these rooms and timely supervision is also adhered by respective female faculties, as and when required.

File Description	Document
Any additional information	View Document

7.1.3 Alternate Energy initiatives such as:

1. Percentage of annual power requirement of the Institution met by the renewable energy sources

Response: 15.37

7.1.3.1 Annual power requirement met by the renewable energy sources (in KWH)

Response: 18000

7.1.3.2 Total annual power requirement (in KWH)

Response: 117120

File Description	Document
Details of power requirement of the Institution met by renewable energy sources	View Document
Any additional information	View Document

7.1.4 Percentage of annual lighting power requirements met through LED bulbs

Response: 14.21

7.1.4.1 Annual lighting power requirement met through LED bulbs (in KWH)

Response: 1.922

7.1.4.2 Annual lighting power requirement (in KWH)

Response: 13.526

File Description	Document
Details of lighting power requirements met through LED bulbs	View Document
Any additional information	View Document

7.1.5 Waste Management steps including:

- Solid waste management
- Liquid waste management
- E-waste management

Response:

Institute is committed to monitor and manage onsite waste water systems within the boundary. Significant progress has been made and inspections conducted on the system and the process improvements ensured to installation of septic tank and operated properly.

Under the provisions, the protection of surface water, ground water and public health has considered. Institute has installed septic tank in which wastewater is carried from institute, canteen, boys hostel, workshop etc. Wastewater contains black water, grey water and combined water. The treated sewage is using as a fertilizer and distributed to nearby farmers.

The total solid waste collected in the campus is 05 Kg/day on an average, from, cups, paper etc. The waste is segregated at source by providing separate dustbins for Bio-degradable and Plastic waste. Single sided used papers are reused for writing and printing in all departments. Less plastic waste (average 0.1Kg/day) is generated by few departments, office, etc., it is collected and given to the vendor on a regular basis. Metal and wooden waste is stored and given to authorized scrap agents for further processing. Glass bottles are reused in the laboratories. Sanitary napkins are disposed off using incineration process. E-waste from labs is properly collected and is given to the licensed recycler, reused wherever possible, donated and sold if possible. Non-working computers, monitors, and printers are discarded and scrapped on a systematic basis. Some parts useful for other systems are kept aside for future use. Students are also imparted awareness and education about E-Waste. Composter is installed in campus, thus bio-degradable waste is converted into fertilizer, which is used in campus itself.

File Description	Document
Any additional information	View Document

7.1.6 Rain water harvesting structures and utilization in the campus

Response:

The District receives an average annual rainfall of 710 mm. But Aurangabad faces severe water scarcity between February and mid-May every year which leads to acute water shortages during summer, especially in the drinking water sector. The Government of Maharashtra has taken many initiatives for promoting Rain Water Harvesting (RWH). As a part of this, the institute has taken initiative for water harvesting in which the water gathered is directly forwarded or revived into the ground to enhance the ground water stockpiling. Water shortages especially during scorching summer are often met with to a large extent by means of rainwater harvesting. In the institute, sub surface is recharged by recharging trench of dimension 15m*1m*1m. Thus, treated rainwater is collected at the time of heavy downpour in the well situated at campus premises.

To meet the increasing water consumption of institute, institute has taken a 'green' initiative in which water is collected from institutional catchment area through channels and by using gravity sand filter and water is harvested in the well.

7.1.7 Green Practices

- **Students, staff using**
 - a) **Bicycles**
 - b) **Public Transport**
 - c) **Pedestrian friendly roads**
- **Plastic-free campus**
- **Paperless office**
- **Green landscaping with trees and plants**

Response:

Institute has the facility of public transport wherein five buses are allotted for commutation of students for various routes in and around Aurangabad city. Total of 150 students and staff members commute through these buses. Institute conducts tree plantation activities every year through staff and students.

For promoting the concept of 'Go paperless', institute encourages every department to go digital and use the electronic medium for communication of official activities like- notices, meetings, circulation of e-notes, study materials, campaigning, etc. Attractive posters are also set up at different locations for campaigning paperless concept.

File Description	Document
Any additional information	View Document

7.1.8 Average percentage expenditure on green initiatives and waste management excluding salary component during the last five years

Response: 0.03

7.1.8.1 Total expenditure on green initiatives and waste management excluding salary component year-wise during the last five years(INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
0.15	0.1	0.05	0.08	0.075

File Description	Document
Green audit report	View Document
Details of expenditure on green initiatives and waste management during the last five years	View Document

7.1.9 Differently abled (Divyangjan) Friendliness Resources available in the institution:

1. Physical facilities
2. Provision for lift
3. Ramp / Rails
4. Braille Software/facilities
5. Rest Rooms
6. Scribes for examination
7. Special skill development for differently abled students
8. Any other similar facility (Specify)

A. 7 and more of the above**B. At least 6 of the above****C. At least 4 of the above****D. At least 2 of the above****Response:** D. At least 2 of the above

File Description	Document
Resources available in the institution for Divyangjan	View Document
Any additional information	View Document

7.1.10 Number of Specific initiatives to address locational advantages and disadvantages during the last five years

Response: 19

7.1.10.1 Number of specific initiatives to address locational advantages and disadvantages year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
7	6	6	0	0

File Description	Document
Number of Specific initiatives to address locational advantages and disadvantages	View Document
Any additional information	View Document

7.1.11 Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere)

Response: 19

7.1.11.1 Number of initiatives taken to engage with and contribute to local community year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
7	6	6	0	0

File Description	Document
Report of the event	View Document
Any additional information	View Document

7.1.12

Code of conduct handbook exists for students, teachers, governing body, administration including Vice Chancellor / Director / Principal /Officials and support staff

Response: Yes

File Description	Document
Any additional information	View Document

7.1.13 Display of core values in the institution and on its website**Response:** Yes

File Description	Document
Any additional information	View Document

7.1.14 The institution plans and organizes appropriate activities to increase consciousness about national identities and symbols; Fundamental Duties and Rights of Indian citizens and other constitutional obligations**Response:** Yes

File Description	Document
Details of activities organized to increase consciousness about national identities and symbols	View Document
Any additional information	View Document

7.1.15 The institution offers a course on Human Values and professional ethics**Response:** Yes

File Description	Document
Any additional information	View Document

7.1.16 The institution functioning is as per professional code of prescribed / suggested by statutory bodies / regulatory authorities for different professions**Response:** Yes

File Description	Document
Any additional information	View Document

7.1.17 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years**Response:** 2

7.1.17.1 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	2	0	0

File Description	Document
List of activities conducted for promotion of universal values	View Document
Any additional information	View Document

7.1.18 Institution organizes national festivals and birth / death anniversaries of the great Indian personalities

Response:

Our students are on a mission towards better India. They come together breaking the boundaries of religion and caste. Death and Birth anniversaries of great personalities, Important Days of National and International events are also celebrated meaningfully.

The institution celebrates days of National Importance with full honor and respect. These are celebrated to recall the events or contribution of our leaders in building the nation. Thoughts of great Indian personalities sowed into the young minds through the exhibitions and programs conducted on these days.

Every year *Teacher's day* is celebrated on the birth anniversary of Dr. Sarvepalli Radhakrishnan recognizing the contributions and achievements of teachers.

Engineer's day to celebrate the contribution and achievements of Engineers and inculcate a sense of pride is religiously celebrated.

Various National Festivals are celebrated with full fervor to bring unity and highlight the importance of each and every cultural groups.

Sr. No.	Name of the Event
	Days of National Importance
1	Independence Day- 15th August
2	Republic Day- 26th January
	Days of Important Personalities
3	Marathwada Mukti Sangram- 17th September
4	University Foundation Day
5	Teacher's day(Birth Anniversary of Dr. Sarvepalli Radhakrishnan)- 5th September
	Days of festivals and any other event

6	Ganesh Chaturthi
7	Janamashtami
8	Engineer's day- 15th September

File Description	Document
Any additional information	View Document

7.1.19 The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions

Response:

Institute has developed a structured process for maintenance of complete transparency in its various fields.

For maintaining transparency of academic related activities, every department undergoes rigorous Internal Audit process which is monitored by a dedicated committee wherein all the heads of the departments are involved. Quarterly internal audits take place for which prior schedule is sent to respective department coordinators. Also, monthly meetings take place in every department which is conducted by the head of the department for which prior notice is sent to all staff members along with agenda. Minutes of meetings are also framed for the same after the meeting.

For maintaining financial transparency, institute conducts a monthly check of all accounts and its related transactions. Also, it has appointed an External Auditor who audits the financial statements every half year.

For maintaining administrative and other auxiliary functions, institute has appointed an administrative officer who keeps a check on all the day to day transactions/activities related to students, teaching/non-teaching staff and peons. Leave approvals are to be sanctioned through Department head, Administrative officer and Director in the same sequence. In and Out movements in the campus are checked through biometric system and also at the security gate.

File Description	Document
Any additional information	View Document

7.2 Best Practices

7.2.1 Describe at least two institutional best practices (as per NAAC Format)

Response:

Best Practice I

Title of the practice

Teacher- Guardian Scheme

Objectives of the practice

It has been observed that many times students just come and go to college and if at any point they encounter any problem related to their personal issues, academic activities or career progression, they are in a dilemma as to whom to contact for possible solutions. Due to these reasons, this above scheme has been formed. The main purpose of setting up this scheme is to maintain a close connect between students and their faculties.

The Practice

Institute follows a systematic process for the said scheme:

1. For fifteen students there is one teacher guardian i.e. 15:1.
2. A coordinator is appointed from every department to maintain the records of his/her department's teacher guardian scheme.
3. The respective department coordinator prepares the list of teacher- guardian and put up the list on the notice board at the start of the academic session.
4. Respective Teacher guardian will monitor academic performance of students.
5. Poor performances of students are improved by way of counseling. Report of such counseling sessions are also prepared by the teacher guardian which is also counter signed by the department head.
6. Counseling is done for Academics, Personal issues, Career progression, etc.

Evidence of Success

Ms. Hansika Shrivastava, student of MBA Batch 2017-18(2nd year) was having an imbalance between studies and personal life and was not able to focus on certain major priorities of her life. She was also not properly responding in the class.

When she approached her teacher guardian with her queries, the guardian gave her few practical solutions to apply in her life slowly and steadily. The guardian listened to her for an hour or so and asked her to vent out her feelings to whomever she trusts the most. Guardian also asked her to read good motivational books and to focus on priorities and remove all negative thoughts.

Now she is working with a reputed manufacturing company as an HR Executive handling tedious responsibilities.

Best Practice II

Title of the practice

Student Association of Department.

Objectives of the practice

The prime objective of this practice is to enhance knowledge, leadership qualities, team bondedness within students.

The Practice

Institute follows a systematic process for the said scheme:

1. Notice for the vacancies of association posts are put up on the respective department's notice board.
2. Students apply for the said posts in the form of an application.
3. Interviews are conducted by a panel consisting of Head of the respective department and faculty In-Charge of the association.
4. Based on the performance of the students during the interview, suitable students are shortlisted by the panel.
5. Hence, the council is formed with the above shortlisted students.
6. An official ceremony is conducted to handover the responsibilities of the previous council of the respective department association and a Chief Guest from the Industry is also invited for the ceremony.

Under the said association, various workshops, seminars, expert lectures, etc. are organized with the help of students and the faculties.

File Description	Document
Any additional information	View Document

7.3 Institutional Distinctiveness

7.3.1 Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust

Response:

Institute has a vision of attaining a position in top 100 colleges in the country by 2025. Working towards this vision, the institute focuses on the development of the students and faculties on various fronts and one of such criteria is Skill Enhancement.

Under this Skill enhancement, the students are not just restricted to attaining good marks but also, successfully using their knowledge and skills for the betterment of the society. Students from different departments have or are in a process to register *patents* for their respective projects.

1. Ms. Poonam Badgular, student of Electronics and Telecommunication department have filed patent for her project on '*Wind Ventilator based electricity generation system*' in the year 2017.

Mr. Ankur Anpat and Mr. Deepak Arde, students from Mechanical department have completed the process of provisional registration of filing patents for their project titled '*System and device for reducing gas*

consumption' in the year 2018.

File Description	Document
Any additional information	View Document

NAAC

5. CONCLUSION

Additional Information :

- NSS unit of ICEEM organizes Beti Bachao rally, Cleanliness Drive and other social activities in nearby village.
- The institution has Bus Facility for students coming from various locations of Aurangabad city
- Proximity to the fastest developing industrial hub of Marathwada region.
- Well furnished and self-contained rooms are available in the hostel
- Well equipped gymnasium is available in the college premises.
- Learning Management System is used in teaching which includes digital classrooms, language lab, e-library, etc

Concluding Remarks :

ICEEM is one of the fastest growing institutions of Marathwada region. It is spread over an area of 11 acres. Beautiful landscaping, outdoor playground and ample greenery are few of its unique features. Considering the attributes of the college in all criteria and institute's ability to synchronize with the contemporary needs, we feel that the institute is one of the fast progressing vibrant institutes in the Marathwada region.

The faculty strives hard to impart knowledge to the students in order to enhance their competency. The institute has state of the art laboratories which are upgraded in tune with the updation of syllabus by Dr. BAMU, Aurangabad. The institute fosters students research mindset and character building for a bright future so as to emerge as tomorrow's nation builders. The students are exposed to modern instruments and test facilities with well equipped learning resources. The institute also believes in developing research culture in departments and supports innovative ideas from faculty and students. The extensive students training programs and industrial visits are conducted in association with industries to enhance the skills set and employability. Conduction of technical exhibitions and participation in various competitions are helpful to students in bridging the gap between industry and academia. Institute believes that it is contributing to professional education, applying for NAAC is next stepping stone to ensure quality in professional education. Furthermore, institute is willing to assess its educational system and academic culture. In addition to it, it is essential for professional institute to receive stakeholder's perception towards teaching-learning process and supporting entities. Thus applying for NAAC is a step towards self introspection leading to further development of the institute towards excellence.