YEARLY STATUS REPORT - 2020-2021

Part A
Data of the Institution

1.Name of the Institution	JERUSALEM COLLEGE OF ENGINEERING
• Name of the Head of the institution	Dr.Ramesh.S, B.E., M.Tech., Ph.D.,
• Designation	Principal
• Does the institution function from its own campus?	Yes
• Phone No. of the Principal	04466199599
• Alternate phone No.	04466199500
• Mobile No. (Principal)	7540036999
• Registered e-mail ID (Principal)	principal@jerusalemengg.ac.in
• Address	Velachery Main Road, Narayanapuram, Pallikaranai
• City/Town	Chennai
• State/UT	TamilNadu
• Pin Code	600100
2.Institutional status	
• Autonomous Status (Provide the date of conferment of Autonomy)	03/05/2019
• Type of Institution	Co-education
• Location	Urban

• Financial Status	**Self-financing**
• Name of the IQAC Co-ordinator/Director	**Dr.D.Parameswari**
• Phone No.	**04466199500**
• Mobile No:	**7299677284**
• IQAC e-mail ID	**iqac-coordinator@jerusalemengg.ac.in**
3.Website address (Web link of the AQAR (Previous Academic Year)	https://www.jmi.ac.in/upload/menuupload/iqac_aqar_2019_20.pdf
4.Was the Academic Calendar prepared for that year?	**Yes**
• if yes, whether it is uploaded in the Institutional website Web link:	https://www.jmi.ac.in/upload/menuupload/iqac_aqar

5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	**B++**	**81.15**	**2005**	**21/09/2005**	**20/09/2010**
Cycle 2	**A**	**3.14**	**2015**	**15/11/2015**	**14/11/2020**

6.Date of Establishment of IQAC	**23/09/2005**

7.Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?

Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount
Department	**MODROB**	**AICTE**	**20/07/2020**	**836706**
Department	**MODROB**	**AICTE**	**20/07/2020**	**870588**
Department	**STTP**	**AICTE**	**09/02/2021**	**353333**

8.Provide details regarding the composition of the IQAC:

• Upload the latest notification regarding the composition of the IQAC by the HEI	View File

9.No. of IQAC meetings held during the year	**2**
• Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website?	**Yes**
• If No, please upload the minutes of the meeting(s) and Action Taken Report	No File Uploaded
10.Did IQAC receive funding from any funding agency to support its activities during the year?	**No**
• If yes, mention the amount	

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

Got approval from AICTE for two new programmes
Participated in NIRF 2021
Consolidation and submission of AQAR
Organized orientation Program for First year students
Organization of workshops, seminars on quality related themes and promotion of quality circles
Organized STTP Programme funded by AICTE

12.Plan of action chalked out by IQAC at the beginning of the academic year towards quality enhancement and the outcome achieved by the end of the academic year:

Plan of Action	Achievements/Outcomes
Applied for Incubation cell	**MHRD approved Incubation cell was established.**
New Programmes	**Institution has got approval from Anna University and AICTE To stat two new Programmes**
Outcome based Education	**Workshops/Seminar/FDP conducted for students and faculty members**

13.Was the AQAR placed before the statutory	**Yes**

body?	

- Name of the statutory body

Name of the statutory body	Date of meeting(s)
HoDs Meeting	15/03/2022

14.Was the institutional data submitted to AISHE ?	Yes

- Year

Year	Date of Submission
18/02/2020	18/02/2022

15.Multidisciplinary / interdisciplinary

A) Jerusalem College of Engineering (Autonomous Institution) envisages in providing finest quality engineering, technology and management education entrenched in ethical and societal values by inculcating multi-disciplinary approach in various discipline of Engineering. The curriculum in all discipline is carefully designed in accordance with the NEP 2020. The curriculum under Regulation 2019 of JCE was designed and developed ensuring that students get the required skills and by including the most recent technological developments in their respective domains. The curriculum includes Open Electives which provides an option for choosing interdisciplinary courses that can also be completed through NPTEL .The curriculum has a purview for taking up minors and honours degree along with their major discipline. Interdisciplinary projects are also encouraged .

B) The curriculum includes courses from Science and Humanities such as English, Physics, Chemistry in the first year, and Mathematics up to second year

C) The curriculum of each programme has a total of 160 credits and contains a variety of courses such as Humanities and Science Courses (HS), Basic Science Courses (BS),Engineering Science Courses (ES), Professional Core Courses (PC), Professional Elective Courses (PE), Open Elective Courses (OE) [Courses offered by other than Parent Departments], Non-Credit Mandatory (NCM) Courses such as

Environmental Science, Constitution of India, Essence of Indian Traditional Knowledge, Employability Enhancement Courses, Online courses and Value-Added Courses. To equip students with practical understanding in industry, Internships, mini projects and major projects have been made mandatory with due Credit Weightage in the curriculum. Students are encouraged to choose SWAYAM – NPTEL courses as Open Electives and earn the credits. A course on Entrepreneurship is also included in the final year of the undergraduate programme.

D)The institution permits lateral entry during the second year and eligible transfer candidates during any year of study.

E) Across all branches of Engineering, internships, Inplant training, Mini Projects are included in the curriculum with credits. This inculcate the students to identify the real world problem and design a solution to solve the challenging issues faced by the society

16.Academic bank of credits (ABC):

NIL

17.Skill development:

A)Jerusalem Educational Trust is engaged in promoting vocational programmes in health sector through DDU-GKY projects. To develop soft skills in alignment with NSQF the curriculum is designed with Soft Skills and Aptitude, Technical Skills and Aptitude, Professional Communication, Entrepreneurship for Engineers which will improve the overall personality of the student.

(B) Department clubs, placement and training cell, NSS, YRC, and Rotaract clubs conduct many activities that would help students develop their character, improve communication, leadership skills, and environmental awareness. NSS and YRC camps are held in rural areas to expose students to real-world issues confronting society. Through medical and cultural camps, people from rural areas are motivated and made aware of current issues.Through these activities, the institution ensures that a student is not only technically strong at the end of his course, but also develops into a complete human being with good civic sense and a healthy mind, enabling him to contribute to the nation's development.

  (C) Designed curriculum inculcates the soft skills through dedicated experienced trainers. Weekly hours are scheduled well before every semester. Periodic Assessments are also conducted to

evaluate the technical and soft skills acquired by the students. These assessments hold weightage in the end semester credits.

18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)

A)All engineering discipline includes Non-Credit Mandatory (NCM) Courses namely Constitution of India, Essence of Indian Traditional Knowledge to enhance the knowledge on Indian customs and culture.

B)Will be implemented as per the affiliating university norms

C)NIL

D) The institution organizes various programmes to promote the Indian culture by celebrating culturals day and pongal day. It also conducts various traditional activities through Tamil mandram

19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):

A)NIL

B) ICT enabled technology is used by faculty and exclusive training given for preparing digital course content. Demonstration of models during lecture hours is done to make the students understand the concepts easily Demonstrations using power point presentation enables delivery of technical contents in an interactive and simpler way. Students are encouraged to refer to various open coursewares available in the web to improve their subject knowledge. Some of them are NPTEL, MIT - OCW, MOOC. In addition to traditional class room teaching, Google Classroom is created for all courses to simplify sharing class notes, grading assignment in a paperless way and also for online teaching.

20.Distance education/online education:

NA

Extended Profile

1.Programme

1.1   **13**

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	[View File]()

2.Student

2.1   **231**

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	[View File](#)

2.2   **486**

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	[View File](#)

2.3   **1802**

Number of students who appeared for the examinations conducted
by the institution during the year:

File Description	Documents
Institutional Data in Prescribed Format	No File Uploaded

3.Academic

3.1   **1085**

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	[View File](#)

3.2   **158**

Number of full-time teachers during the year:

Extended Profile

1.Programme

1.1 Number of programmes offered during the year:	**13**

File Description	Documents
Institutional Data in Prescribed Format	View File

2.Student

2.1 Total number of students during the year:	**231**

File Description	Documents
Institutional data in Prescribed format	View File

2.2 Number of outgoing / final year students during the year:	**486**

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3 Number of students who appeared for the examinations conducted by the institution during the year:	**1802**

File Description	Documents
Institutional Data in Prescribed Format	No File Uploaded

3.Academic

3.1 Number of courses in all programmes during the year:	**1085**

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2	**158**

Number of full-time teachers during the year:

File Description	Documents
Institutional Data in Prescribed Format	[View File](#)

3.3 Number of sanctioned posts for the year:	**130**

4.Institution

4.1 Number of seats earmarked for reserved categories as per GOI/State Government during the year:	**443**
4.2 Total number of Classrooms and Seminar halls	**51**
4.3 Total number of computers on campus for academic purposes	**630**
4.4 Total expenditure, excluding salary, during the year (INR in Lakhs):	**25913443**

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

Jerusalem College of Engineering (JCE), affiliated to Anna University, was granted Autonomous Status by UGC in the year 2019-20. Following the norms of UGC, statutory bodies such as Governing Council, Academic Council, Finance Committee, Board of Studies and non-statutory bodies such as Planning and Evaluation Committee, Curriculum Development Committee were constituted to periodically follow up the functioning and growth of the Institution. The Institution practices Outcome Based Education (OBE). The Institution has 9 Departments, offering 8 Undergraduate

(UG) and 6 Postgraduate (PG) programmes of which 3 UG programmes are accredited by National Board of Accreditation. Each Department has a well-defined Vision and Mission statement based on which Program Educational Objectives (PEOs), Program Outcomes (POs) and Program Specific Outcomes (PSOs) are defined. All programmes adopt the Choice Based Credit System (CBCS) from the academic year 2017 -18. Revision of curriculum and syllabi has been done in UG Engineering and MBA programmes under Regulation 2019 of JCE.

The curriculum under Regulation 2019 of JCE was designed and developed by faculty of respective departments, ensuring that students get the required skills and by including the most recent technological developments in their respective domains. The curriculum for the 14 programmes offered by JCE were designed based on the following:

- Model Curriculum prescribed by AICTE
- Curricular Structure of Anna University
- Suggestions given by Industry experts, experts from Academia and Alumni
- Syllabus for competitive examinations such as GATE etc.
- Syllabus of reputed Nationaland International institutions such as IITs, NITs, MIT(USA), Harvard(USA) etc.

File Description	Documents
Upload additional information, if any	[View File](#)
Link for additional information	[https://jerusalemengg.ac.in/naac-admin/AQAR/Criterion 1/1.1 - CDD/1.1.1/1.1.1 V&M - PEO, PO, PSO, CO, Mappings.pdf](#)

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

13

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	View File

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

926

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	View File
MoUs with relevant organizations for these courses, if any	View File
Any additional information	View File

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced across all programmes offered during the year

356

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

13

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	[View File](#)
Any additional information	[View File](#)
List of Add on /Certificate programs (Data Template)	[View File](#)

1.3 - Curriculum Enrichment

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

The institution takes great care in imparting personality based learning along with the technical components involved in the curriculum. A three-week Induction programme for the first-year students focuses on imparting fundamentals of basic sciences and also on personality development programmes. The purpose of the programme is to make students feel comfortable in the new environment, create a bond between faculty and students, develop awareness on understanding self and people around, society at large, nature and universal human values.

Across all branches of Engineering, mandatory courses on Professional Ethics, Essence of Indian Traditional Knowledge, Environmental Science, Indian Constitution are offered in the curriculum which focuses on gender issues, managerial values and ethics, legal aspects, global warming and ecological issues to sensitize students on climate change and generate ecological concern. The curriculum also contains one credit courses on Soft Skills and Aptitude, Technical Skills and Aptitude, Professional Communication, Entrepreneurship for Engineers which will improve the overall personality of the student.

Various activities are conducted through department clubs, placement and training cell, NSS, YRC and Rotaract clubs which help in student's character development, improve communication, leadership skills and environmental consciousness.

NSS and YRC camps are organised in rural areas through which students get sensitised to real issues faced by society. Motivation and awareness on day today issues are given to people belonging to rural areas through medical and cultural camps.

Through these activities, the institution ensures that a student is not only technically strong at the end of his course but grows

into a complete human being with good civic sense and healthy mind through which he can contribute to the development of the nation.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	View File

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

9

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	View File
Any additional information	View File

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

925

File Description	Documents
List of students enrolled	View File
Any additional information	View File

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

624

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	View File

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni	A. All 4 of the above

File Description	Documents
Provide the URL for stakeholders' feedback report	https://jerusalemengg.ac.in/about-us/about-us.php
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File
Any additional information	View File

1.4.2 - The feedback system of the Institution comprises the following	A. Feedback collected, analysed and action taken made available on the website

File Description	Documents
Provide URL for stakeholders' feedback report	https://jerusalemengg.ac.in/about-us/about-us.php
Any additional information	View File

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

231

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

2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)

213

File Description	Documents
Any additional information	View File
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

The Institution conducts a bridge course of two weeks, to all students of first year, at the beginning of the academic year which focusses on basics of Mathematics, Physics, Chemistry and Communicative English. Based on the tests conducted at the end of the course, the learning capability of students are assessed.

The categorisation of advanced and slow learners is done based on the continuous internal assessments conducted in the first semester.

Special programs for slow learners:

The Institution offers various programs for improving the learning ability of slow learners. The programs include

•Special / Coaching classes

Additional classes are arranged after regular college hours in subjects such as

Mathematics and Analytical subjects.

• Counselling and Mentoring:

The Institution has a well established proctorial system. Each faculty is a mentor for 20 students. Each mentor meets his/her students periodically and holds discussions on both personal and academic issues. Care is taken to motivate and encourage slow learners to perform better and have a smooth college life.

Special programs for advanced learners:

The advanced learners are encouraged to

- **Choose Swayam courses as open electives allotted in the curriculum.**

- **Skill Development Courses**

- **GATE Coaching**

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://jerusalemengg.ac.in/naac-admin/AQAR/Criterion 2/2.2 - CSD/2.2.1/2.2.1 - Additional Information.xlsx

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
01/06/2020	1189	158

File Description	Documents
Upload any additional information	View File

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:

Student centric methodologies such as active learning, cooperative learning, project based learning, experiential learning, experimental learning, blended learning and other ICT based learning methodologies are implemented. Experiential and participative learning pedagogy is an integral part of the curriculum designed for all the programmes offered at college.

As part of experiential learning, students experience Laboratory Demonstration Classes, Practical Experiments, Web-based learning such as through Coursera and NPTEl, Internships, In-plant Training and projects. Students gain enriched experience from the aforesaid programmes via hands on learning and gain in-depth insights and acquire practical skills. On an average, around 30% of courses in the curriculum involve experiential learning.

Learning among student groups, also called peer learning, is encouraged, which facilitates participative learning. This is best experienced through innovative continuous assessment components including group discussions, quiz, group seminars, online discussion forums, mini projects and group projects. Each Department has technical clubs through which students inculcate leadership qualities and professional excellence. Technical symposiums are conducted periodically through which students learn to work in teams and benefit out of participative learning. Around 25% of courses prescribed in the curriculum involve participative learning.

File Description	Documents
Upload any additional information	[View File](#)
Link for additional Information	[https://jerusalemengg.ac.in/naac-admin/AQAR/Criterion 2/2.3 - TLP/2.3.1/2.3.1 - Proof.pdf](#)

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

To improve the learning outcomes and promote academic excellence, cloud-based platform like Google classroom is effectively used. Course materials are uploaded in the college website regularly by the faculty members. Course materials consist of study materials, question banks and university question papers. Virtual labs are conducted and thus helped the students avail various tools for learning. Online assignment and test are conducted and the papers are collected in google classroom.

Some of the ICT tools used are listed below

* Online classes through Google Meet, Zoom, YouTube channel
* Voice enabled PPT
* Video lectures
* Quiz through google forms
* Technical Seminar
* Webinars
* Online Assignments and test through classroom

Online quiz through app like kahoot

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://jerusalemengg.ac.in/naac-admin/AQAR/Criterion 2/2.3 - TLP/2.3.2/2.3.2 ICT enabled online resources.pdf
Upload any additional information	View File

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

93

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

The Institution follows a well-planned academic calendar. The basic structure of the calendar which includes the schedules of assessment tests, model examinations, end semester examinations is prepared by Dean Academics in consultation with Principal and Controller of Examinations.Important events of the college including cultural day, College Day, Sports Day and Graduation Day is also included in the academic calendar.

College academic calendar is published in the college website for easy access to students. Teaching plans are prepared based on the academic calendar and followed by individual faculty and effectively monitored by the respective Heads.

The academic calendar is strictly adhered to and all the academic activities are recorded in course files which are maintained by each faculty. The contents of the course file include the following:

  1. Syllabus

2. Course Sheet
3. Academic Calendar
4. Class time table
5. Lesson plan
6. Result Analysis
7. Students' Name list
8. Assessment question papers
9. Assignment question bank
10. University question papers
11. Best/Below average answer sheets (for each assessment test)
12. Tutorial plan, material

An academic audit comprising of senior faculty of the college and external members is conducted after every semester which thoroughly verifies all the course files to confirm the adherence of the academic activities mentioned in the academic calendar.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full-time teachers against sanctioned posts during the year

158

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	View File
Any additional information	View File

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

33

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	View File

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

987.1

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	View File

2.5 - Evaluation Process and Reforms

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

45

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	View File

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

0

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	View File

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

The college was given autonomous status from the academic year 2019-2020. Hence till the academic year 2018-2019 for the conduction of both continuous internal assessment and end semester examinations the college followed the examination procedures prescribed by the affiliating university (Anna University, Chennai) in accordance with the regulations both for practical and theory examinations.

From the academic year 2019-2020 the following procedure is followed:

Conduction of end semester theory examinations:

- Boards comprising different panels to govern various disciplines are constituted.
- Examination notification specifying the starting date of both practical and theory examinations for various disciplines, regulations and year of study is circulated.
- The examination preview form is prepared for each student to enable him/her to register for the subjects by paying the prescribed fee.
- The examination time table is prepared for each branch of study and circulated.
- Question paper setting is done by panel of members (both internal and external faculty members) under various boards.

End semester practical examinations:

- Set of question papers prescribed by the Chairman of various boards are forwarded to the concerned departments
- The examinations are conducted by having an internal and an external examiner.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional Information	https://jerusalemengg.ac.in/coe.php

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

Each department in the college has an Advisory Board Constituted by HOD, senior faculty, representatives from alumni, employers & parents. This Board is instrumental in approving the POs, PSOs & PEOs of the programme. The Advisory Board meets before the commencement of each academic year, which forms course committees for each course comprising of the faculty handling the course along with a subject expert. The course committee, after detailed deliberations, defines the course outcomes (COs) for each course, their mappings with Program Outcomes (POs) and Program Specific Outcomes (PSOs).

The approved POs, PSOs, PEOs and COs are dissiminated to all stakeholders through the following means:

- College website
- Display in prominent locations within the campus such as Department office, Laboratories and Department library
- Communicated to employers by mail.

- Communicated to Alumni during Alumni meets, whatsapp groups and other social media.
- Students are informed in the class during class committee meetings. COs are reviewed in the class after completion of each unit
- Printed in log books & lab manuals.
- Parents are informed during Parent Teacher meetings and through whatsapp groups.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	View File
Link for additional Information	https://jerusalemengg.ac.in/naac-admin/AQAR/Criterion 2/2.6 - SPLO/2.6.1/2.6.1 - COs for courses.pdf

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

ATTAINMENT OF COURSE OUTCOMES:

In consultation with the course committees, the Department Advisory Board fixes a target for each course. The course target is fixed by considering the average pass percentage of end-semester results for two years prior to the year of assessment.

Assessment of CO is generated for individual course based on the assessment pattern. The attainment of COs is calculated using direct and indirect assessment methods.

For theory courses, the assessment test marks, assignments and innovative practices such as Quiz, Seminars, library based assignments, open book test etc and end semester examination marks are considered for CO calculation.

For practical courses, the assessment tool is based on continuous performance of students in laboratories, showcasing their knowledge in doing the experiment designing and analyzing the results and end semester examinations.

Overall course attainment is calculated considering 20% of internal assessment and 80% of end semester results.

ATTAINMENT OF POS & PSOS

The Target levels of attainment of POs and PSOs are fixed by the Department Advisory Board.The attainments of POs and PSOs are evaluated through direct and indirect measures.

The direct attainment of POs and PSOs is calculated based on the

selection of courses and their COs.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://jerusalemengg.ac.in/naac-admin/AQAR/Criterion 2/2.6 - SPLO/2.6.2/2.6.2 - Programme outcome and course attainment.xlsxhttps://jerusalemeng g.ac.in/naac-admin/AQAR/Criterion 2/2.6 - SPLO/2.6.1/2.6.2 - Programme outcome and course attainment.xlsx

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

485

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	View File
Paste link for the annual report	https://jerusalemengg.ac.in/naac-admin/AQAR/Criterion 6/6.5 - IQAS/6.5.3/6.5.3 - JCE ANNUAL REPORT 2020-21.docx

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink

https://www.jerusalemengg.ac.in/

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

Our research policy provides a broad framework to guide scholarly research with thefollowing objectives:

1. To identify research areas and specify research topics of academic, practical and socially relevant significance

2. To create and promote a culture of research among the faculty, staff and students of Jerusalem Engineering College (Autonomous).

3. To organize seminars/conferences/workshops on research topics and training programmes in research methodology.

4. To ensure quality, integrity and ethics in research.

5. To publish research material in appropriate media and to make available such published information to the end users.

6. To facilitate the publication of reports submitted by the research scholars

The Management of Jerusalem Engineering College hereby affirms the following principles concerning research:

• The R & D cell comprises of faculty members from various departments in the Institution. This committee oversees the smooth and efficient co-ordination of research and development activities in the Institution and overall growth. The members will contribute towards enhancing research and development at Jerusalem college of Engineering. The R&D cell measures the attainment of achievements and recommends the performer for appreciation and incentives.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	https://jerusalemengg.ac.in/research&development/r&d.php
Any additional information	View File

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

5.03

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	View File
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving grant and details of grant received	View File
Any additional information	View File

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

7

File Description	Documents
e-copies of the award letters of the teachers	View File
List of teachers and details of their international fellowship(s)	View File
Any additional information	View File

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

22.58

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	View File
List of projects and grant details	View File
Any additional information	View File

3.2.2 - Number of teachers having research projects during the year

21

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://jerusalemengg.ac.in/research&development/r&d.php
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

13

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	View File
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

9

File Description	Documents
Supporting document from Funding Agencies	[View File](#)
Paste link to funding agencies' website	https://jerusalemengg.ac.in/research&development/r&d.php
Any additional information	[View File](#)

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

JCE has an atmosphere for innovation and other initiative for transfer of knowledge where the management encourages both faculty members and students to carry out research projects that give solutions to several Industrial and social problems.

Research Centres:

5 departments of this Institution has Anna University approved research centres for collaborative research work which has produced number of Ph.D. holders. Every department is having well equipped research laboratory focused on training, research and Innovation. Institution has very efficient research Committee for encouraging and initiating creation and Transfer of knowledge.

Jerusalem College of Engineering (Autonomous) has established Institution's Incubation and Innovation Council and it is approved by Ministry of Human Resource Development Institution's Innovation Council in the campus on July 29, 2019. Various activities like poster making competition, workshops, guest lectures, webinars on recent development are arranged through this.The major focus of IIC is to create a vibrant local innovation ecosystem, start-up supporting mechanism andestablish functioning ecosystem for scouting ideas and pre-incubation of Ideas.

Placement and ED Cell:

JCE has excellent placement cell and Entrepreneurship development cell to communicate with industries and gives excellent training to students to improve their entrepreneurship skills.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://jerusalemengg.ac.in/research&development/r&d.php

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

35

File Description	Documents
Report of the events	[View File](#)
List of workshops/seminars conducted during the year	[View File](#)
Any additional information	[View File](#)

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software	**A. All of the above**

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	[View File](#)
Any additional information	[View File](#)

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

15

File Description	Documents
URL to the research page on HEI website	https://jerusalemengg.ac.in/research&development/research-policy.php
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	View File

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

34

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

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

54

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://jerusalemengg.ac.in/research&development/r&d.php

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

11

File Description	Documents
Any additional information	View File
Bibliometrics of the publications during the year	View File

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

11

File Description	Documents
Bibiliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	View File

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

23.36

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	View File
Any additional information	View File

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

25250

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	View File
List of training programmes, teachers and staff trained for undertaking consultancy	View File
List of facilities and staff available for undertaking consultancy	View File
Any additional information	View File

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

Jerusalem College of Engineering organizes and participates in various extension activities with an objective of not only sensitizing students about the social issues but also reinforce community contribution.

Youth Red Cross (YRC) in our College prepares youth as peer agents of change among both youth as well as society by developing their skills on leadership, advocacy, communication and team building. It promotes voluntary blood donation among youth. It motivates youth, build their capacity as peer educators,

The National Service Scheme (NSS) unit of the college participates in various initiatives like organizing camps and awareness programmes. Such camps and programmes help students to come in closer contact to their society and community. In addition, they get to know about various social problems and customs prevailing in the society.

Rotaract Club of JCE in our college provides an opportunity for individuals to enhance their knowledge and skills in order to assist in their personal development, while also addressing the physical and social needs of their communities through a framework of friendship and community service. It encourages the scientific and technical temper in students along with cultivating various hobby related interests among them.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://jerusalemengg.ac.in/campus-life/sports.php

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

6

File Description	Documents
Number of awards for extension activities in during the year	[View File](#)
e-copy of the award letters	[View File](#)
Any additional information	[View File](#)

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

25

File Description	Documents
Reports of the events organized	[View File](#)
Any additional information	[View File](#)

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

1092

File Description	Documents
Reports of the events	[View File](#)
Any additional information	[View File](#)

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/

student exchange/ internship/ on-the-job training/ project work

353

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	View File

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

23

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	View File
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
Any additional information	View File

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching-learning, viz., classrooms, laboratories, computing equipments, etc.

Jerusalem College of Engineering was established in the year 1995 to impart quality engineering education. Over the period of 23 years it has made a mark of itself and got established as an institution which offers excellent engineering education. It is one of the very rare Institutes which is situated in close proximity to premier educational institutes and also the IT Hub of Chennai. The institute offers 7 Under-graduate and 6 Post-graduate course in Engineering, Technology and Management.

The Institute has very good infrastructural facilities and laboratories with state-of-the art equipment. The faculty of the college are a nice blend of both academic and industrial experience. The institute is entrusted in providing world class infrastructure to the students with modern building, well equipped

laboratories and spacious modern library, smart class classroom,seminar halls and Auditorium.

The institute has well equipped audio-visual halls for conducting seminars, co-curricular and extracurricular activities. Guest lectures, workshops, Faculty Development Programs (FDP), value added courses, intra and inter department symposiums are conducted every semester of the academic year, to equip the students with the latest trends and technologies, enabling them to meet the ever demanding challenges.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://jerusalemengg.ac.in/facilities/transport.php

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

The Jerusalem provides such an environment which facilitates optimal efficiency and effectiveness for the emerging dynamic engineers. We ensure best sporting facilities to groom the enormous potential lying hidden among the students. The college has attained quite a reputation in sports activities by winning several prestigious tournaments conducted in various levels.

.SportsfacilitiesforstudentssuchasBasketballcourt,Volleyball court, Table Tennis boards, Indoor Badminton court etc. are provided. The sports students have their practice at 6AM in the morning and 4PM in the evening respectively.

Yoga Activities:

In addition to academics, cultural and physical activities, our college organizes regular "Yoga Activities". Regular assessment through the response of students who involve themselves in yoga practice indicates improvements in their studies and functions.

The English Literary Association:

"HALCYON" The English Literary Association has been very successful in rendering service to the students to inculcate the essence of Literature and Language by constantly conducting the

activities like spell bee, elocution, essay writing, and slogan contest every year since its inception.

Tamil mandram: Tamilmandram is the tamil club which is managed by a group of talented students, who conduct regular poetry, debate and essay writing competitions in tamil, among various students

File Description	Documents
Geotagged pictures	[View File](#)
Upload any additional information	[View File](#)
Paste link for additional information	https://jerusalemengg.ac.in/facilities/transport.php

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

56

File Description	Documents
Upload any additional information	[View File](#)
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	[View File](#)

4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

58.43384

File Description	Documents
Upload audited utilization statements	[View File](#)
Details of Expenditure, excluding salary, during the years	[View File](#)
Any additional information	[View File](#)

4.2 - Library as a Learning Resource

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

Library is equipped with learning resources for all the students to update their knowledge.Online journals and magazines are available to enrich their knowledge and to enhance their overall academic skills. The library with bar code facility is completely computerized with The library also has a photo-copying service unit.

Relevance of available learning resources including e-resources

The library in the institution has been centrally located for the easy access by all the departments of the college along with a sparkle PG library meant for departments.

The library has a good collection of books which include the latest edition of engineering and management studies and the library books of 45,763; 109 journals& magazines and 203 International Journals and online journalsare used by the students and staff members.The following are the list of online journals:

- ASCE – exclusively for Civil engineering – 38 titles
- IEEE – for technical and engineering branches – 169 titles
- JGATE – for management studies – Database

Audio Visual Facility in the library

A separate place within the library for audio visual learning for the benefit of students and professors along with972 audio-visual aids (CDs &Cassettes)

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://jerusalemengg.ac.in/facilities/transport.php

4.2.2 - Institution has access to the following: e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources	A. Any 4 or more of the above

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	View File
Upload any additional information	View File

4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)

2.19769

File Description	Documents
Audited statements of accounts	View File
Any additional information	View File
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

355

File Description	Documents
Upload details of library usage by teachers and students	View File
Any additional information	View File

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

The college has adequate facilities of the information technologies including Wi – Fi and the internet connections well spread through the campus and it is updated frequently. All the systems in the college campus are provided with LAN facility and UPS. The college has a well-equipped smart class rooms with all modern facilities concerning ICT. The conference halls consist of computers with internet and LCD Projectors.

Campus network enables remote learning, conferences, collaborative research, industry relations, alumni and remote recruitment, competitive examinations conducted by the Government. The campus has integrated software for various administrative and academic activities. All the notices are electronically circulated through e-mails. The College uses various open source and license software which are upgraded periodically with the latest version. A team of in-house staff is designed to take care of the IT & related needs of the campus such as Software, Hardware and Networking, Website designing and hosting, Email, SMS solutions, etc.

The various other computing facilities like printers, software, database, Wi-Fi networking caters to all the labs and departments for the benefit of faculty and students.

Surveillance of IT facilities by installing 72 Cameras. 750+ IP enabled devices are connected to Institution network.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	[https://jerusalemengg.ac.in/naac-admin/AQAR/Criterion 4/4.3 - IT/4.3.1/4.3.1 - Wifi bills.pdf](#)

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
1159	630

File Description	Documents
Upload any additional information	[View File](#)

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus	A. ?50 Mbps

File Description	Documents
Details of bandwidth available in the Institution	View File
Upload any additional information	View File

4.3.4 - Institution has facilities for e-content development: **Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing**	**B. Any three of the above**

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://jerusalemengg.ac.in/academics/digital-resources.php
List of facilities for e-content development (Data Template)	View File

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)

46.76581

File Description	Documents
Audited statements of accounts	View File
Upload any additional information	View File

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

The campus holds well established standard systems and procedures for maintaining the physical, academic and support facilities that are governed by the supervision of faculty in charges in college level. They ensure the various aspects of utilization and maintenance of the physical, academic and support facilities such as maintenance of buildings, laboratories, classrooms, library, sports complex, computers, etc. The details of various

infrastructure maintenance are listed below.

Civil Work Maintenance

Electrical Work Maintenance

Air-conditioner Work Maintenance

Telecom Work Maintenance

Housekeeping and Maintenance Work:

Maintenance through External Agencies

Security arrangements:

Check Point's 5400 Security Gateway is being used as a firewall. Check Point's 5400Next Generation Firewall offers a fully integrated, unified solution tuned to deliver maximum security against 5th generation threats without compromising performance. 5400Security Gateway provides the most advanced threat prevention security for demanding enterprise networks.

Utilization and Maintenance of Class Rooms, Library and Laboratories: Refurbishing refers to the process of dismantling the component of the laboratory equipment/system and assembling the same to increase the performance efficiency. This practice is carefully followed as per the documented standard procedures for every equipment to ensure its optimal performance.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://jerusalemengg.ac.in/facilities/transport.php

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

872

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	View File

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

153

File Description	Documents
Upload any additional information	View File
Institutional data in prescribed format	View File

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology	**A. All of the above**

File Description	Documents
Link to Institutional website	https://jerusalemengg.ac.in/facilities/fitness_health_care.php
Details of capability development and schemes	View File
Any additional information	View File

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

14

File Description	Documents
Any additional information	View File
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees

A. All of the above

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	View File
Upload any additional information	View File

5.2 - Student Progression

5.2.1 - Number of outgoing students who got placement during the year

381

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File

5.2.2 - Number of outgoing students progressing to higher education

20

File Description	Documents
Upload supporting data for students/alumni	View File
Details of students who went for higher education	View File
Any additional information	View File

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

14

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	View File

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year

5

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

STUDENT COUNCIL MEMBER ACTIVITIES

Every educational institution has a valuable responsibility in moulding a student in to a faith full citizen. On process of

which, Jerusalem College of Engineering has formed the practice of electing a student council each year, providing an opportunities to students to grow and explore their creativity and responsibility. The student council consist of a group of student volunteers who collaborate with the staff members and senor officials to organize college events such as symposium and cultural fests. The motive of the student council also includes in brining almost opportunities to their fellow students by attaining maximum participation. Being a member of the student council inhibits problem solving abilities by providing training and experiences in the skills and techniques of good citizenship and leadership to prepare to articulate citizens and leaders for a progressing society. In addition to the college level student council, all the departments have student council office bearers for their association activities. Each Department's Association is led by student as president with a group of office bearers under the guidance of faculty coordinator of the association. Events like Guest lectures, Industrial visits, workshops, technical symposiums, technical fest, placement and training programmes are planned and coordinated by the student associations' as per the suggestions received from the students and faculty from time to time. This council will explore the opportunities for industry visits, in-plant training, student placement, etc.

Responsibilities:

Assist the Principal and the Programme Officers-in-Charge in areas such as student welfare, discipline. Uphold the values and ethics in the conduct of the affairs of the association in holding events, inviting resource persons and handling financial transactions, if any, in co-ordination with the Programme Officer-in-Charge and the Principal. Encourage and motivate participation by students interested in specific club activities and co-curricular activities such as NSS, NCC, and YRC etc. Ensure proper maintenance of registers and acts as liaison between students and the Programme Officer to plan, organize and successfully implement events and activities for the year.

Academic Committees:

The students are involved in academic governance through mechanisms like library committee, class committee, Internal Quality Assurance cell, Entrepreneurship Development cell, etc... In these committee meetings the suggestions for the enrichment of academic activities offered by the students are considered and appropriate action will be taken by the Principal/Deans/HoDs.

Along with it, the student's council members are actively involved in conducting the technical symposium, Tech Fest etc towards the technical growth of student's community.

Administrative Committees:

The students are also involved in administrative committees like Office Bearers of Student Club and department association activities, Hostel committee, Canteen committee, Student Welfare committee, SC/ST student development committee, etc... Where the students give their suggestions and feedbacks on activities. The prevention of sexual harassment committee handles the gender related complaints with the involvement of students. The institution keeps the students updated about the provisions for the students from reserved category through SC-ST Cell. In addition to above, each department has student placement coordinators to work with the placement team of institution and support them in placement activities.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://jerusalemengg.ac.in/naac-admin/AQAR/Criterion 5/5.3 - SPA/5.3.2/5.3.2 - Activities students council.pdf

5.3.3 - Number of sports and cultural events / competitions organised by the institution

5

File Description	Documents
Report of the event	View File
List of sports and cultural events / competitions organised per year	View File
Upload any additional information	View File

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly

to the development of the institution through financial and other support services

Alumni Association of Jerusalem College of Engineering was registered under the act of Tamil Nadu Societies Registration. This provides a platform that helps Alumni maintain connection with the college and fellow graduates. The college level Alumni Association was secretaries by the faculty members with the purpose to maintain effective link between the passed out students and the college authorities. It also plays a pivotal role in helping to shape the future of our college, through alumni contribution, to build an engaged and supportive community. The association fosters a spirit of loyalty to promote the general welfare of our organization and supports our institution goal. Jerusalem college of Engineering takes pride in having a friendly and healthy relationship with "The Jerusalemians". The Alumni association meets once a year to interact, providing the college and alumni with opportunities for a symbiotic relationship. Future plans are also discussed in the meetings. Every year Alumni Newsletter is being released during the Alumni Day Celebration.

Along with the association meeting annual alumni meet is also organized at the institute level every year. Alumni contribution happens in various non-financial forms such as alumni interaction week, alumni challenge competition. Alumni on our campus for the benefit of the juniors, namely for conducting viva, STP activity, conducting mock personal interviews, discuss business and entrepreneurship opportunities. During the interaction alumni have highlighted the importance of current trends in the market and guided the students about the career opportunities in different fields. They have also shared their personal experiences with students. Alumni visit campus at regular intervals to support the existing batch of students in planning and organizing events, extend support and guidance for functioning of various students clubs. Alumni who are entrepreneurs have been providing inputs on how to start a new venture and turning them in to job providers. This has resulted in to two out of four students who have in progress of their revenue streams. Some of the alumni are actively participating in social service combining with creative activities for rural area kids. These activities are quite motivational and create enthusiasm among children resulting in awareness related to importance of education among poor children. All these activities are carried out during weekends. Whenever these alumni visit the campus they motivate students to follow their path for the betterment of the society. Alumni extend their support for campus placements and summer and winter internships for HR, Finance and Marketing students from time to time.

The Association has a separate alumni facebook page for sharing Alumni Events, College News Letters, Magazines and Job opportunities posted by Alumni members. JCE has created a web page in the college website to record the voice of the Alumni. In addition, the association also updates the Alumni member details/Database for all the batches periodically to know the current status of the alumni members. Alumni members extend their support to the Institution through

1. permitting the students to visit their industry (entrepreneurs)
2. offering the Internships to our students
3. placement
4. curriculum development (Member in Boards of Studies)
5. training the students for placement
6. Alumni of the respective departments regularly visit the institution for interaction with the students regarding placements and Higher studies in abroad and
7. delivering the Guest lectures and seminars.

These programs provide an opportunity to expose currently enrolled students to the behavior and actions of the corporate world.

To mark the successful completion of more than two decades in the field of education, Jerusalem College of Engineering instituted a prestigious "The Distinguished Alumni Award"to be given away every year. The award is bagged by an alumnus in recognition to his/her exemplary voluntary service and prominence in their profession achieved with a demonstrable impact contributing to the pride and growth of the institution.

OFFICE BEARERS

Alumni Association of Jerusalem College of Engineering provides a platform that helps Alumni maintain connection with the college and fellow graduates. The Office Bearers will be selected once in two years. The following members are the current office bearers.

President

MR.S.SHRIRAM

EEE Department

Vice President

MR. V.KRISHNA KUMAR

ECE Department

General Secretary

MS.C.ANNIE JULIET

CSE Department

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	https://jerusalemengg.ac.in/alumni/alumni.php

5.4.2 - Alumni's financial contribution during the year	**D. 2 Lakhs - 5 Lakhs**

File Description	Documents
Upload any additional information	**No File Uploaded**

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

Jerusalem College of Engineering has vision and mission which are futuristic in nature. They satisfy the needs of society by providing quality education through leading-edge technology.

The Institute led by our CEO Prof. Dr.M.Mala, follows participative leadership style to involve all staffs to ensure effective functioning and consistent improvement of the institution. The institute also focuses on facilitating effective interaction among alumni, core industries, other institutions, stakeholders for career growth of students and their placement.

Vision and mission of the institute focuses on the needs of the

society by providing quality education. The Governance of the Institute is the Governing council and the Academic council and the Internal Quality Assurance cell (IQAC) which conducts frequent meetings with department representatives. The governance of the institute is in tune with its vision to promote education in Engineering, technology and Management, multi-disciplinary research, entrepreneurship for social transformation and nation building via value added programs, implant training, co-curricular and skill acquisition programs. This governing council works hard to maintain standard in education and in research. The Principal of the institute is assisted by Heads of various departments, Administrative officer, various cells and committee members in decision-making process in various academic and non-academic areas. The Institution policy believes involvement of all staff in decision-making. To follow 6the same, various committees are formed which look after academic and administrative activities which lead to the realization of vision and mission of the Institute.

Each Department Head holds regular meetings with their respective teaching and non-teaching staff members. The views of all staff are often considered before making decisions. The Principal meets all staff periodically to discuss and decide on issues that concern the whole college. The Principal and Administrative officer hold meetings with non-teaching staff and support staff to discuss relevant issues and seek their opinion. The prospective plans are forwarded with ratification from the principal, to the governing council for approval.

File Description	Documents
Upload any additional information	[View File]()
Paste link for additional Information	https://jerusalemengg.ac.in/about-us/about-us.php

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

Decentralization is effectively practiced throughout all the level of the organogram in the Institute. The Governing Council has members from Management, Industry and Academic. Under the guidance of Governing council members the overall development of the college will be taken care and the Governing council members coordinate and motivate all the employees in our Institution.

The Decentralization practice in the office of the controller of examinations is delegated to the Controller of Examination with One additional Controller of Examination, Three Deputy Controller of Examinations, One System Admin, One Supervisor, Two office Assistants.

Co- Curricular and Extra-Curricular Activities are delegated to Faculty Members of various Department and Association. The Director and The Principal are the head of the Institution constitutes separate Committees based on the requirements and based on the recommendation of the Individual Committee The Director and The Principal takes the necessary Action

Participative Management:

In participation of CEO, Director, Principal, Dean, Faculty, Supporting Staffs, Industry Professionals, Alumni, and Current Students are in the various committees held in our Institution which reflects the participative management approach in the Institute. The Committee likes Alumni Association; Extra Curricular Committee; Disciplinary Committee; Sexual Harassment Committee & Women Cell; Grievance & Redressal Committee; Canteen Committee; Campus Maintenance Committee etc., have CEO, Director, Principal, Dean, Faculty, Supporting Staffs, Industry Professionals, Alumni, and Current Students as active members in the Committee.

CASE STUDY: ACADEMIC MONITORING SYSTEM:

Role:

Academic Monitoring System is centralized which is responsible for supervising, modulating and executing the various academic actions &guidelines. It is purposely form for continuous & reliable conduction of academic work all through the institute,

Members Hierarchy:

Academic system is an en route by Chairman who is the principal of the Institute. Member secretary is Dean of Academics. Other members are the Head of Departments, and Academic coordinators of various department

Activities conducted by Academic Members:

Teaching learning process monitors by Academic members. It prepares the academic calendar of the institute that includes curricular, Assessment dates, co-curricular and extracurricular activities. Academic Calendar is intensively planned and prepared in advance by Dean of Academics and ensures the proper implementation of the academic calendar.

Dean of Academics is responsible for confirmation and observation of academic activities. Dean Academics Prepares the uniform formats for Lab Plan & Teaching Plan. Dean of Academics confirms lab and course file audit, takes action against findings, issues appreciation and show cause notice. This activity done by Academic members before commencement of semester and in the middle of semester, arbitrary confirmation of attendance once in a month and gives feedback to Principal.

Class In charge and academic coordinator of each department ensures continuous conduction of practical and lecture of respective class prepares students list, does result analysis and syllabus coverage once in every month.

The Departmental Academic coordinator informs for the extra classes for weak and poor students for their academic improvement. At end of semester the Academic members visits every department and check outs the continuous assessment sheet, Theory and practical attendance sheet of every subjects.

File Description	Documents
Upload strategic plan and deployment documents on the website	[View File](#)
Upload any additional information	[View File](#)
Paste link for additional Information	https://jerusalemengg.ac.in/about-us/about-us.php

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

The College has a perspective plan for development, based on our Vision and Mission statements. All the stakeholders are consulted

for their inputs while preparing the plan and move towards the achievement. The College has a Strategic Plan to achieve goals are as follows: innovative and technology-oriented teaching learning to respond to the emerging needs of a developing nation, promoting collaborative trans-border research and development programs in collaboration with reputed Universities and industry, Entrepreneurship activities, enrich Industry- Institute Relationships and Alumni Interaction. The college has regularly enhanced infrastructure and developed capacities for teaching and research of faculty according to the changing academic and social environment.

Activity: Autonomous

We, at Jerusalem College of Engineering, availed the prestigious status of autonomy in the year 2020. This reflected in the efforts for excellence in academic performances, capability of self-governance and enhancement in the quality of education.

In today's competitive era, there is a huge demand for proficient technical and management professionals. Experts from various industries and experienced academicians from reputed institutes are consulted in the process of framing our own curriculum, for which we have our own Board of Studies (BOS), to serve the purpose. Dedicated efforts are made to ensure that the syllabus framed is "Employment Centric". We restructure and redesign the curriculum of each course every year. The overall syllabus is framed in such a way that students get to experience more than two labs per semester, which in turn helps them gain more practical knowledge. In addition to this, Students are provided with multiple opportunities to intern at companies representing various Industries.

We use modern tools of educational technology to achieve higher standards and foster creativity. The Institute endeavours to provide students and teachers a conducive atmosphere and infrastructure for the promotion of Innovations in education leading to restructuring of courses, new methods of teaching and learning and integral development of personality; Studies in established and new disciplines

On the account of getting autonomous in our college we started Our office of the Controller of Examination in JCE, headed by Controller of Examinations, supported by one additional Controller of Examination, Three Deputy Controller of Examination and other

assistants like System Admin, Supervisor and Office Assistants play a great role in the conduct of examinations.

The functioning of this office is computerized, which helps in the smooth conduct of examinations and in the evaluation process.We conduct continuous internal assessment and external examinations per semester with greater assurance to justice and fairness.

The automation of the workflow from nominal roll creation, entry and submission of various components of continuous assessment marks, attendance, and payment of online examination fees, its reconciliation and timely declaration of results are the hallmarks of this office.The results are declared by the COE with the list of students and their respective CGPA on the college Notice board and also E- mail & SMS will send to the respective Individual student. The office is sensitive to the just demands of the students and their welfare is a top priority.

We have a perfect organogram, and hence governance is quite effective and easy.

File Description	Documents
Strategic Plan and deployment documents on the website	[View File](#)
Paste link for additional information	https://jerusalemengg.ac.in/about-us/about-us.php
Upload any additional information	[View File](#)

6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from the policies, administrative set-up, appointment and service rules, procedures, etc.

The Governing bodies of JCE are Governing council and Academic council, which meet once a year and twice a year respectively. The institute prepares strategic plans annually, which are bifurcated into long term, and short-term plans and achieved hitherto. The Governing Council of JCE consists of well-experienced academicians and industry experts ensuring quality education by efficient monitoring of implementation of strategic plan and effective teaching learning process, in addition to innovative and best practices adopted by the institute. Academic council of JCE strives hard in regulating academic policies, maintaining standards of education, sustaining inter-departmental harmony and promoting research.

Continuous and meticulous efforts of the Institute's pivotal working committees ensure quality in both academic and administrative levels. Committees include Internal Quality Assurance Cell, Research and Funded Project Committee, Placement Committee, Curriculum Development Committee, Library Committee, Proctor Committee, Disciplinary Committee, Grievance & Redressal Committee, Sexual Harassment Committee & Women Cell, Alumni Association Committee, Purchase Committee, Newsletter and Calendar Committee, Canteen Committee, Campus Maintenance, Hostel Maintenance Committee, Extra-Curricular Activities Committee and Transport Committee. Each of the committee, work as a team of faculty, with greater transparency and efficiency to step towards vision and mission.

The institute has a well-defined organogram with definite hierarchy and structure that reinforces the culture of excellence in all spheres. Our CEO, Prof. Dr. M. Mala is the Centre head of the institute. Principal is the Chairperson of administrative and academic activities of the Institute. JCE currently have 7 Departments., Biomedical Engineering, Civil Engineering, Computer Science Engineering, Electrical and Electronics Engineering, Electronics and communication Engineering, Information Technology, and Management studies each overseen by Head of Departments with faculty under their guidance. Feedback on procedures of teaching learning process sought from all the stake holders are analyzed and improved continuously.

All appointments of teaching, non-teaching staff and other administrative staff shall be made by open competition by an advertisement and selection, where in all the in-service personnel who possess the qualification prescribed shall be permitted to apply and these appointments are ratified by the Governing council.

The performance of faculty are assessed based on University results, Lecture notes, Feedback, Commitment to profession, Publication, FDP/Workshop – organized/attended, receipt of Funded projects, Lectures delivered, Membership in professional bodies, Responsibilities held at department level, Responsibilities held at college level, Contributions to Anna university as evaluator, squad, etc. and Overall assessment.

Promotion to higher level of service shall be made subject to availability of the posts, eligibility of the staff, only on the basis of merit and efficiency, besides the commitment of the staff to the cause of all-round development of the academic life in the

institution.

Grievances Redressal cell have been constituted to address grievances of staff and students, which ensures smooth functioning of the institute.

File Description	Documents
Paste link to Organogram on the institution webpage	https://jerusalemengg.ac.in/about-us/about-us.php
Upload any additional information	View File
Paste link for additional Information	https://jerusalemengg.ac.in/about-us/about-us.php

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination	A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Documen	View File
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	View File

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

TEACHING FACULTY:

- Faculties are covered under Employment Provident Fund Scheme as per the act, according to which persons drawing up to Rs 12,000/- per month are covered. The employee and the management contribute 12% of the pay of such employee.
- The management grants maternity leave to the women employees, with pay for a period of 60 days and limited to the first two living children

- Grant of Rs 5000 /- for marriage and for the first child for the supporting staff.
- In the event of death of an employee while in service, an exgratia of Rupees 10,000/- is granted to the dependents of the deceased employee, towards funeral.
- Medical facilities are available in the college for the minor ailments.
- College Organizes free and periodic health checkups.
- Educational loan for higher studies, Faculty members are sponsored to upgrade their qualification.
- Tuition fee waiver for children of employees.
- Provision for a separate lunch room for the benefit of staff members and girl students
- Faculties are honored with a financial incentive for various distinguished merit activities in the field of academic and research
- Appreciation for the faculty member for achieving 100% results in the dealt course
- Excellent Teacher Awards have been instituted to encourage teachers to put in their best efforts.

Faculty members are sponsored by the management for seminars, workshops and conferences while meeting the expenses towards delegation fee for the first time and also

- treating the period of absence as "ON DUTY"
- In the event of death of an employee, while in service his/her dependant will be considered for employment on compassionate grounds, depending upon the merit of the case, limited to the cadre Junior Assistant, subject to eligibility of the individual concerned and the availability of vacant post.
- Faculty members are sponsored by the management to attend the International Conference /Workshop and reimburse the registration charge or one way fare whichever is less.

NON-TEACHING STAFF:

- Staffs are covered under Employment Provident Fund Scheme as per the act, according to which persons drawing up to Rs 6,500/- per month are covered. The employee and the management contribute 12% of the pay of such employee.
- Concession in the transport fee for staff.
- ESI and benefits and medical insurance given to the staffs.
- Medical facilities are available in the college for the

    minor ailments.
- College Organizes free and periodic health checkups.
- Educational loan for higher studies, staff members are sponsored to upgrade their qualification.
- Tuition fee waiver for children of employees.
- Provision for a separate lunch room for the benefit of women staff members and girl students
- Free breakfast and lunch for drivers.
- Free holiday trip for staff.
- Ayudhapooja and Diwali rewards.
- The management grants maternity leaves to the women employees, with pay for a period of 60 days and limited to the first two living children
- Grant of Rs 5000 /- for marriage and for the first child for the supporting staff.
- In the event of death of an employee while in service, ex-gratia of Rupees 10,000/- is granted to the dependents of the deceased employee, towards funeral.
- Administrative Staffs are provided with In-house training programme for providing communication skills, particularly skill of writing, (with such inputs as grammar at basic level) with the help of the Department of English.
- Technical Staff are provided with Training and Retraining programme in technical areas.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://jerusalemengg.ac.in/naac-admin/AQAR/Criterion 6/6.3 - FES/6.3.1/6.3.1 - Service rule JCE.docx

6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

24

File Description	Documents
Upload any additional information	View File
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

27

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	View File

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

65

File Description	Documents
Summary of the IQAC report	View File
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

The Institution has appointed N.C.Rajagopalan& Company for the statutory Audit. The frequency of Statutory audit is taking place in annual basis. The Last Audit was done during September - 2019.

The Institution has appointed Mr. N.C.Ananthakumar M.Com, FCA. for the concurrent Audit.The frequency of Concurrent audit is taking place in monthly basis.The last audit was done during August-2020

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	**Nil**

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

165750

File Description	Documents
Annual statements of accounts	[View File](#)
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	[View File](#)
Any additional information	[View File](#)

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

Mobilisation of funds –

- **Tuition fee from students.**
- **Getting Sponsor from IST/ AICET Projects and Consultancy project for Modernization of lab**
- **Increasing number of students in various departments**
- **By introducing the new courses**

Optimal Utilisation of resources

- **Every department will prepare budget in advance for obtaining lab equipment, lab facilities, infrastructure and up gradation of computational systems.**
- **The budget received from various departments is consolidated and normalized based upon the total income anticipated through the students tuition fee**
- **Departments are encouraged to obtain grants through various funding agencies and companies for conducting research, Consultancy work, Conference, Seminars etc**
- **While utilizing the funds the expenditure involved in**

- **procuring the equipment is collectively negotiated by the academic council members for the lab**
- **Inter department coordination is encouraged for the effective usage of lab equipment, seminar halls etc**
- **Staff is also instructed to make use of the equipment for more number of batches within the college time frame work**
- **Hiring of Infrastructure facilities through government & Non-government agencies**

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	https://jerusalemengg.ac.in/research&development/funded_projects.php

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

Significant contributions made by IQAC:

- **Obtained autonomous status**
- **Participated in NIRF.**
- **Obtained accreditation from NBA for B.E.(BME),B.E(CSE) and B.E(ECE) Programmes**
- **Regular internal academic audits: Twice in a year**
- **Strengthening the campus placements process to provide job opportunities for the students.**
- **Organization of workshops, seminars on quality related themes and promotion of quality circles**
- **Consolidation and submission of AQAR**

Improvements since the last accreditation:

1. **Faculty members are encouraged to publish papers in the journals indexed in SCI, SCOPUS, and web of science databases. A total of 301 papers were published by our faculty. Incentives are provided to the faculty for quality**

publications.
2. 17 Patents are filed and published.
3. MHRD approved Incubation cell was established.
4. Conduction of career enhancement courses.
5. Refined and adopted OBE across the departments
6. More than 50 active MOUs with industry and academia to create awareness and training with updated technology
7. Soft Skill training to strengthen the placement

I .Innovations in Curricular Aspects

ICT based Teaching-learning and e-content development has been carried out with faculty.. Student's projects are guided by the faculty and executed in the Institute. The institute has a comprehensive placement training philosophy which is executed through qualified faculty of our college and experts from various organization and industries.

Head of the institution has always been emphasizing on the placement and outcome of the outgoing students of the college. Therefore, as per the discussion in Academic council and IQAC meeting, it was unanimously decided to introduce the value added and job-oriented courses in support of their regular teaching learning methodologies. As a part of effective teaching learning, the students are classified as slow and advanced ones. Therefore, the college uses methods such as projects, internship, field visit and ICT based teaching including LMS like Google Classroom for slow and advanced learners. All departments prepare specialized tools such as blogs, YouTube, and other online resources. Guest lecture of MoU signed institutes are also arranged for providing exposure to the students. The college has introduced need-based value-added courses as a regular practice to bridge the gap between the university curricula and the market demands.

Institutionalization of Online Certification courses

Students are motivated to take up the online courses offered by various MOOCs platforms such as NPTEL, COURSERA, JAVA, ORACLE, etc. to gain the domain and interdisciplinary knowledge. In regulation 2019, students were given an option to get their credits on completion of these courses. This will improve the self-

learning skills of the students and helps to improve their creativity and originality. IQAC is motivating the faculty to get certified in advanced courses in their domain knowledge and in the field of outcome-based education.

The continuous efforts of IQAC towards 750 certification courses are completed by student through COURSERA. Faculty are also participating in the online certification courses both by mentoring the students and also undergoing certification.

Some of the initiatives of IQAC contributing in incremental improvements since its inception are:

- Mapping of Course and Program Outcomes
- FDPs on Research Awareness for faculty
- MOU with National Institutes
- Conduction of Remedial Coaching
- Strong proctorial System
- Organizing Alumni meet
- Organizing workshops and Conclaves for students
- Organizing co-curricular and extracurricular events and activities
- Promoting sports and healthy lifestyle

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	[https://jerusalemengg.ac.in/naac-admin/AQAR/Criterion 6/6.5 - IQAS/6.5.1/6.5.1 - Certificate Courses_comp.pdf](#)

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

Academic audit is conducted to monitor the quality of teaching-learning along with other academic- related activities. Internal and External thorough audits are conducted for all departments annually. Internal audit is conducted by the committee of senior faculty constituted by the Dean-Academics and Chairman of IQAC.

The external audit is conducted by inviting experts from academic institution of repute.

The following documents are presented to the committee for verification

- Course Objective and Outcome
- Course file
- Log books

- Question Bank

- Copies of test question papers

- Assessment and Improvement test papers

- Class test papers

- Assignments

- Proof for viva-voce conducted

- Samples of PPT slides and other teaching materials

- Continuous assessment reports for period I,II and III

- Internal mark Calculations

- Laboratory manual, observation book, record note books and list of experiments conducted.

The audit system has improved the performance of the faculty members and teaching quality and their integrity. The data recorded in the attendance register and assessment report by the faculty members are very good, Overall performance of the students in their written exam is satisfactory which exhibits the effective and innovative teaching methodology of the Faculty. With regard to the preparation of assignments, the students have excelled in their creative skills and have come out with wonderful outputs such as chart work, collages, write ups and handwritten manuscripts.

Example 2:Remedial Measures through Proctor

The remedial measure includes conducting remedial courses for slow learners. From the first semester, students are identified and

categorized as slow learner and advanced learner based on their academic performance. Customized inputs are designed for different learning ability levels. IQAC ensures at the beginning itself the effectiveness of proctorial system to have a close look of student performance.

IQAC pays special attention towards developing academic skills of students. At regular intervals IQAC calls meeting with proctor and guides them to take students to next level. This is ensured through regular proctor meetings and analysis of proctor reports thereof with proctor and IQAC in presence of Principal of the Institute.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://jerusalemengg.ac.in/naac-admin/AQAR/Criterion 6/6.5 - IQAS/6.5.2/6.5.2 - Academic Audit.pdf

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)	A. Any 4 or all of the above

File Description	Documents
Paste the web link of annual reports of the Institution	https://jerusalemengg.ac.in/naac-admin/AQAR/Criterion 6/6.5 - IQAS/6.5.3/6.5.3 - JCE ANNUAL REPORT 2020-21.docx
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

Jerusalem college of engineering is governed by the able leadership of Dr M Mala, CEO of the college. Prof. Dr. M Mala is the recipient of WONDER WOMAN AWARD by GEO INDIAN FOUNDATION. Being governed by a woman, JCE is taking active measures to promote gender equity and providing all facilities required for the safety and security of girls and women staff in the campus.

- **A sexual harassment committee is constituted to create awareness against harassment and Solve women related issues and complaints**

JCE women cell is constituted to organize Women's Empowerment programmes, Self- defence program for the

- **women/girls of the college community and to conduct women's day program.**
- **JCE has a women warden to take care of girls hostel.**
- **JCE has a women PED to take care of girls in sports**
- **Safety & security:**

JCE provides excellent safety and security measures to its

students both ON & OFF campus in the following ways

- **Security persons are available throughout at the entrance**

- gates to check the entrants.
- CCTV cameras are installed at many places to view the entire campus.
- Fire extinguishers are also put up at all important points in the premises.
- Anti-Ragging committee monitors to ensure no ragging takes place to safeguard 1st year students.
- Purified drinking water is available in all the floors.
- Canteen offers food of good hygiene and there is a committee to ensure the same
- A Lady Doctor and lady nurse are available in campus
- Faculty accompany students when they go OFF campus like Industrial visit, Educational tour, sports, etc.,
- NSS & YRC officers take care in providing safety & security while going on week long camps.

- Counseling:

- JCE has a strong mentor system in academic, social & cognitive development of the students.
- Every mentor is assigned 15 to 20 students.
- A Proctor hour is allotted every week and proctors interact with their students on a one to one basis.
- Personal counseling by a professional Dr. Rajesh Menon plays a major role in the wellbeing of students.
- Faculty both teaching & non-teaching are provided counseling to maintain a balance between work & home.

- Common room is available in the campus for the women.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	[https://jerusalemengg.ac.in/naac-admin/AQAR/Criterion 7/7.1 - IVSR/7.1.1/7.1.1 - Women Cell Activities.pdf](#)

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment	A. Any 4 or All of the above

File Description	Documents
Geotagged Photographs	[View File]()
Any other relevant information	[View File]()

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

- Relevant documents like agreements/MOUs with Government and other approved agencies
- Geo tagged photographs of the facilities
- Any other relevant information
- Three Solid waste composting units are placed in the campus, one near the hostel and another near the canteen to compost the degradable solid kitchen wastes.
- The organic manure produced from the composting units are applied in the garden area to improve the soil fertility and liquid extract obtained are sprayed to protect the plants against harmful pests and insects.
- Every day all the academic buildings and other surrounding area in the campus are cleaned by out sourcing agency and they separate out waste and disposed accordingly.
- A sewage treatment plant (STP) is available inside the campus for the treatment of wastewater discharged from the toilets.
- Physical, chemical and biological processes are used to remove the contaminants in the STP and the treated water is used for watering the plants
- The waste generated from office and hostel premises of the college is collected in separate dustbins. Recyclable waste such as paper, cloths and fallen leaves of trees is collected separately
- Once in a month the house keeping staff clear the stationeries and papers through outside agencies and Regarding e-waste – sincere efforts are taken to dispose devices, materials, Hard disc, copper wire, CD's and any other materials are collected in College and disposed off through outside agencies to keep ourselves safe.
- The Bio medical waste is carefully collected and stored in a separate bin and disposed off safely through the outsourced agencies.
- The slightly salty water released from the RO plants are collected in separate sump and used for cleaning the toilets.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	View File
Geotagged photographs of the facilities	View File
Any other relevant information	View File

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus	A. Any 4 or all of the above

File Description	Documents
Geotagged photographs / videos of the facilities	View File
Any other relevant information	View File

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows: 1. Restricted entry of automobiles 2. Use of bicycles/ Battery-powered vehicles 3. Pedestrian-friendly pathways 4. Ban on use of plastic 5. Landscaping	A. Any 4 or All of the above

File Description	Documents
Geotagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	View File
Any other relevant documents	View File

7.1.6 - Quality audits on environment and energy undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following: 1. **Green audit** 2. **Energy audit** 3. **Environment audit** 4. **Clean and green campus recognitions/awards** 5. **Beyond the campus environmental promotional activities**	**A. Any 4 or all of the above**

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	<u>View File</u>
Certification by the auditing agency	<u>View File</u>
Certificates of the awards received	<u>View File</u>
Any other relevant information	<u>View File</u>

7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.	**B. Any 3 of the above**

File Description	Documents
Geotagged photographs / videos of facilities	View File
Policy documents and brochures on the support to be provided	View File
Details of the software procured for providing assistance	No File Uploaded
Any other relevant information	View File

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

Jerusalem College of Engineering is a centre of learning where students hailing from different backgrounds study together and staff from mixed backgrounds work together. Harmony prevails in the campus in spite of the considerable diversities such as religious, regional, linguistic, cultural, social and economic circumstances that exist. The students and the staff of Jerusalem College of Engineering sink all their differences and believe in the guiding principles of consensus, tolerance, co-existence, mutual trust and shared values.

The Student Council, which functions in the Institution, is completely managed by students. It organises a plenty of events and programmes for bringing out the innate talents in students and for promoting their leadership qualities and social skills. This Council conducts a variety of programmes to celebrate the various festivals and important days of South India namely, Pongal, Telugu New Year's Day, Onam and so on. Every year, the Student Council organizes a Cultural Day to highlight secular values, communal harmony and social tolerance through skits, short films and so forth.

The NSS Unit at the Institution conducts Summer/Winter Camps in the neighbourhood and organizes several programs to raise public awareness about the issues that plague the society and to spread cordiality in the face of communal threats and socio-economic differences. The YRC Unit that functions in the Institution arranges various trips for students to spend a day in the Homes for the physically and mentally challenged people, Old Age Homes and the like.

Apart from them, various Clubs like Halcyon and Tamil Manram

organise many activities and competitions to inculcate values and to make them conscious of their roles in uplifting the downtrodden, fighting against social ills, spreading goodwill among the public and protecting the environment. The English Literary Association called 'Halcyon' conducts activities like spell bee, elocution, essay writing and slogan contest in English and Tamil Manram, in its part, organises debates, poem writing, and essay writing competitions in Tamil to improve their linguistic abilities in English and Tamil respectively. Symposium is conducted to focus on particular issues in engineering and technology and a number of experts come together to present their ideas and papers. This occasion facilitates the staff and the students to interact and communicate with different sets of people from other Institutions.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

The Constitution of India has conferred rights and has also assigned duties to its citizens. As the citizens of India, the students and the employees of Jerusalem College of Engineering enjoy the privileges offered by the Constitution and feel committed to fulfilling the duties demanded by it. The message of being sensitive and making others sensitive to the constitutional obligations namely values, rights and duties is carried to the students and the employees through various methods.

The Institution has made it mandatory for each student to be a member of either NSS or YRC. This strategy is followed so as to inculcate the values, rights and responsibilities in the students and help them to be good and responsible citizens. The NSS Units in the Institution arrange various programmes to make the volunteers aware of their constitutional requirements; to discharge their duties to the nation and to the fellow-citizens; to impart strong morals to others; to take care of the people in need; to join hands in the environmental protection and to conceive and carry out projects relevant and beneficial to society.

YRC Units of the Institution organize events and activities to transform the volunteers into caring citizens so that they can help the needy, to be concerned about the oppressed and the victimized and to have an opportunity to touch the lives of the needy and the helpless. Blood donation camps are conducted for two important objectives: the first one is to disseminate the message of fraternity and the other one is to care for the sick and suffering by donating their priceless blood. This is how, they are trained to discharge their duty and imbibe ethical principles.

Several important national days are celebrated with both solemnity and excitement. Every year, Independence Day is celebrated in the Institution by decorating the celebration area, hoisting the National Flag and by recalling the service and sacrifices made by the freedom fighters for liberating India from the British Rule. Likewise, Republic Day is celebrated every year on January 26 to honour the date on which the Constitution of India came into effect. The Day is celebrated in the Institution by flag hoisting, addresses and distribution of sweets.

7th December is observed as the Armed Forces Flag Day every year in the Institution to honour the martyrs and the in-service and the ex-service men. Flag Day brings to the forefront our obligation to take care of our disabled soldiers, who have sacrificed their lives for the country, and their widows and dependents. National Voters Day is celebrated on 25 January every year in the Institution. The purpose of this day is to make the students community aware of their voting rights and to attract the newly eligible younger generation to vote and contribute to the electoral political process.

National Integration Day is celebrated on November 19, the birth anniversary Indira Gandhi, the first woman Prime Minister. It is celebrated to bring together the youth of India from various socio-economic backgrounds, caste, gender, religion and geographical boundaries and to come together and function as one for the peace and development of our country. The Institution celebrates this day by arranging programmes and by the oath taking ceremony by students.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	View File
Any other relevant information	View File

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized	**A. All of the above**

File Description	Documents
Code of Ethics - policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	View File
Any other relevant information	View File

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

Jerusalem College of Engineering takes a great deal of effort to celebrate and commemorate national and international days. National days such as Independence Day, Republic Day, Gandhi Jayanthi, Flag Day, National Integration Day, National Voters' Day, National Youth Day, Teachers' Day, National Engineers' Day, National Science Day, and A.P.J. Abdul Kalam's Birthday are celebrated. These days help the students by evoking the memories of the past, by cherishing and preserving the rich cultural tradition of our nation and they also help them to dedicate themselves to serve and strengthen the basic fabric of social,

political, and economic fabric our nation.

Independence Day and Republic Day are celebrated every year by decorating the function area, hoisting the National Flag and by delivering speeches to mark these occasions. Armed Forces Flag Day is observed and contributions are made towards the welfare of the Indian Armed Forces personnel by distributing flags to students. National Voters' Day is observed for building awareness among the new and the eligible voters about the importance of discharging their moral obligation to vote. Teachers' Day is celebrated by students to show their gratitude to the teachers by arranging various programmes to mark the day. National Science Day is commemorated by conducting exhibitions and competitions to celebrate the day. Mathematics Day is celebrated by conducting various programmes for students to showcase their talents and skills. The Institution pays rich tribute to the national leaders by celebrating their birth anniversaries. As A.P.J. Abdul Kalam is fondly remembered especially by the students for his vision for India, guidance for the youth and accomplishment in science and technology, his birthday is celebrated well.

To commemorate the international days, a variety of programmes are arranged on the occasions of Women's Day, Anti-Child Labour Day, World Health Day, World Environment Day, World Cancer Day and International Yoga Day to make the students conscious of their roles in cherishing values, in refraining from activities detrimental to society, in improving general, mental, physical health, in educating themselves and others to be environmentally conscious and in showing the importance of exercise and fitness. The NSS and the YRC Units, Rotaract Club and the Students Union in the Institution organise these programmes efficiently and effectively. Pongal, the harvest festival of Tamil Nadu, Pooja, and Onam, the festival of Kerala are celebrated as these festivals give a sense of enjoyment and a state of relaxation and offer an occasion to bond with fellow members.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	View File
Geotagged photographs of some of the events	View File
Any other relevant information	View File

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

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BEST PRACTICE: 1

1. Title of the practice: Empowering Entrepreneurship

2. Objectives of the practice:

The main objective of this practice is to
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- Motivate the students, staff members and neighboring entrepreneurship aspirants of public to start a venture and become an entrepreneur.
- Inculcating project-based learning involving the students and staff members to outbreak their hidden ideas
- Encourage the entrepreneurship aspirants to bring out their knowledge, imagination and new ideas through project competitions.
- Registering the college as Host Institute (HI) in the government initiatives and avail benefits of various schemes such as Smart India Hackathon, Institution Innovation Council, Atal Innovation achievements, MSME Business Incubator (BI) etc., and share with the budding entrepreneurs.

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3. The Context:
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- Jerusalem Innovation & Incubation Council (JIIC) provides facilities such as IPR services, fabrication lab, lab space for funded projects, seminar/discussion halls etc.
- Other supporting initiatives of the college are Institution Innovation Council (IIC), Social entrepreneurship & Rural engagement cell, entrepreneurship development cell and MSME Incubation center.
- Project-based learning (PBL) - The curriculum is framed to carry out one or more tasks that lead to best understanding of the subject and kindle the students to design a model, a device or perform computer simulation.
- Building Innovation ecosystem in the campus through

- Innovation day
- creative/design thinking
- workshop & Seminars

- Idea Festival & Prototype Exhibition
- Aligning faculty research works towards innovation and startup creation

- MSME Incubator – Through MSME approved incubation center seed capital may be provided as a finance assist in the form of soft loan, interest free loan, equity participation etc.

4. The Practice

JCE allows mentors to support the students from innovative idea generation to startup, help in market survey, train the students to gain administrative skills, Introducing angel investors and venture capitalist.

The JIIC activities towards the development of a startup include, Building Innovation ecosystem in the campus through Innovation day program, creative/design thinking workshop & Seminars, Idea Festival, Prototype Exhibition and patent filing. JIIC also supports in developing project plan by analysis, reports, documents, training and startup awards. Co-incubation creation and support, aligning faculty research works towards innovation and startup creation are also the functions of JIIC.

IIC of JCE got 4.5/5 stars during the academic year 2019-20. The activities of IIC were poster making competition on Innovation, Regular Workshop on "Entrepreneurship and Innovation as Career Opportunity", Skill Development Workshop and Entrepreneur skill Development program

The Entrepreneurship Development Cell (EDC) was formed with a vision to inculcate Entrepreneurial spirit among student community under the Innovation & Entrepreneurship development program (IEDP). EDC got funding from various Government and Non-Governmental funding agencies such as DST, under the scheme of NIMAT (National Implementing and Monitoring Agency for Training) and Betamonks Technology Factory private limited.

EDC involved in Conducting Entrepreneurship Awareness Camps, Guest lectures, My Success Story- Experience sharing programs from renowned entrepreneurs, Industrial visits to start-ups, Incubation centers, and facilitation centers for students. EDC also signed MoUs with leading associations and industries for conducting entrepreneurship enhancements programs. It initiated Young Indians Yuva Club for promoting entrepreneurial skills through various programs.

MSME approved incubation center application is registered with MSME DI Chennai and awaiting for the approval (Inspection process completed). It is planned to provide support for the projects done by Students of undergraduate and post graduate levels of professional courses as well for Researchers.

As students are focusing on getting jobs in core areas and in IT industries, motivating students entrepreneurship is a great challenge. Financial background of their family is a big hindrance even for the interested students. Also, getting funds from the government financial institutions a big challenge even for better project proposals because of various mandatory requirements.

5. Evidence of Success

In order to motivate the students, various training programs were conducted through EDC. During the academic year 2018-19 and 2019-20, thirty-five programs such as seminars, workshops, rallies entrepreneurship awareness camps, FDP and skill development workshops were conducted. Details of the programs are given below.

Innovation day is organized every year during the last week of February and two events were conducted during academic year 2019-20 and 2020-21. Events such as project display, poster presentation and idea presentations were organized. In each category, more than 50 presentations were demonstrated by students. Photo evidences are given below.

During the pandemic period, a number of webinars were conducted to encourage the students to develop entrepreneurship activities. Faculty members also took part in various entrepreneurship programs.

Potential final year projects and mini projects of the students mentored by the faculty members are developed as a project plan. After the MSME approval, it is planned to submit at least 15 projects to the MSME DI Chennai.

6. Problems Encountered and Resources Required

This practice requires attitude and willingness of the students to face the financial constraints, technological limitations, skilled people and government policies. Due to the attractive salaries offered by the IT industries, peer level pressure accepting the offers and parents' poor cooperation leads to demotivation for the students.

Mentors support within the while no encouragement is received from other quarters to provide guidance to incorporate their ideas. In addition, the academic pressure on the students does not allow the students to focus completely on the startup.

Government policies and funding agencies support a startup. However, the government procedures and formalities are very cumbersome to take the process forward. This is the major challenge for the students and faculty members to drop their plan of becoming an entrepreneur.

BEST PRACTICE:2

1. Title of Practice: VALUE ADDED COURSES
2. Objective of the Practice: The objective of Value Added Courses is to

1. Make students industry ready
2. Bridge the gaps in the syllabus/curriculum
3. Equip the students with latest technology
4. Provide them knowledge in inter-disciplinary skills
5. Equip the students with essential core skills to succeed in life

1. The Context:

Education has become very important and highly competitive. In order to survive the competition, improvement in quality and skills is necessary. It is important to add value to education imparted to students. Therefore, it is essential to provide the best required. JCE aims at imparting quality education for the students to make them grow in their carreer. A number of Value Added Courses are offered in order to promote skill development and enhance employability. It supports experimental learning, field work-based learning and laboratory-based learning.

1. The Practice:

JCE regularly takes inputs from various industries to frame its curriculum that suits the needs. It is also important to supplement the curriculum with practical knowledge on recent industrial requirements and prepare the students for industry ready. The focus is also to ensure the academic excellence of students which is a basic requisite for their future. A number of

courses in key areas like Labview, IoT, Geospatial Mapping, Python programming, JAVA, Data analytics, Communication, Tally, Digital Marketing and many more are conducted. Apart from teaching faculty, these courses are conducted by professionals and experts from industry to help students improve their skill sets.

1. Evidence of Success:

It is significant for educational institutions to bind academic & industrial needs.This practice of conducting value added courses assists the students as well as the faculty to possess rapidity with the latest technologies concerning their selected field of study. The students are able to choose their Value added courses based on their interests & preferences. Almost all the students are benefitted every year in the following ways

- gain training & assistance on the innumerable facets of building a profession.
- in investigating new prospects.
- in forseeing the career and planning for the same.
- growing with ethical values and organizational behaviors.
- stand out in the proud due to their well built skill set.
- became self-reliant and ready to face any kind of challenges.

As a result, some of our students are placed in various leading companies, some have become Entreprenuers and others have chosen to pursue higher studies, adding several feathers to their cap.

1. Problems Encountered and Resources Required:

a. Identification Curriculum Content to train the students on par with industry

needs

b. Instructional resources like training tools

c. Timeline for fixing the courses

BEST PRACTICE:3

1. Title of the Practice Proctorial system

2. Objectives of the Practice

- To provide periodic supportive care
- To counsel students in both academic and personal problems
- To motivate the students to perform better
- To monitor the wards progress in attendance & punctuality

3. The Context

- To maintain discipline
- To ensure the rules are understood and followed by students
- To keep an eye on the general moral behaviour of the students
- To give closer contact between students and teachers to oversee the regular progress of a student in academics
- A transparent system that enables the parents to monitor their wards progress in terms of attendance, punctuality, discipline, performance and learning abilities

4. The Practice

Each Faculty acts as a Proctor/Mentor for a group of 15-20 students of a particular class. He/She is nominated as a proctor for the ward for the entire period of study.

The proctors monitor the attendance of the students on a daily basis and make phone call to the parents of the students who are absent without prior information.

The Proctor committee makes sure that the concerned departments inform the parents well in advance regarding the Parent-Teachers meeting and ensure that the parents take part in the meeting.(Frequency of meeting: Twice a year)

The proctors inform the parents after every assessment regarding the academic progress of their wards and remedial classes being undertaken for underperformers after college hours.

The proctors receives suggestion from the parents for the improvement of students during Parent -Teachers meeting.

The Proctor identifies the student who need special care and

attention and arranges for a counselling session by a professional counsellor once a semester.

The Proctor committee conducts a counselling session for students.

Continuous improvement of the student is consistently monitored by the proctor.

5. Evidence of Success

- P-T meet
- Student counselling
- Feedback given by the parents during PT meet
- Regular monitoring of attendance

6. Problems Encountered and Resources Required

- Involvement of parents is seen to be just over 50% during PTMs especially after the second year

- Parents participation is a must in the overall growth of a student. This has posed to be a problem and efforts are being taken to create awareness among parents to recognize their importance in the overall growth of their ward.

- For the purpose of students' welfare, counselling programmes are being conducted periodically through which a student can get answers for all his doubts by talking to a professional counselor on a one-one basis. Many students use this platform and benefit. The problem noted is that the students who are really in need of such counseling show hesitation and do not come forward for any discussion. In such cases, a separate session is conducted for such students to create awareness on the benefits that they can get.

File Description	Documents
Best practices in the Institutional website	https://jerusalemengg.ac.in/about-us/about-us.php
Any other relevant information	https://jerusalemengg.ac.in/about-us/about-us.php

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

Promoting innovative Research and Building success career

Transforming young men and women into competent professionals and entrepreneurs is the success strategy of Jerusalem college of Engineering. Innovation is spread among students and faculty members through so many initiatives including Research and development, Entrepreneurship Development, Industry Institute Interaction and Intellectual property rights Registration.

In JCE, various national science festivals like Science Day, Engineer's Day, Teacher's day are given importance. Various events are conducted on those festivals which would give the students an awareness of history and importance of engineering and science in the society.In JCE, students from 1st year to 3rd year of the engineering course are motivated and provided opportunity to develop mini-projects, for understanding of the fundamentals through effective application of theoretical concepts and to boost skills and widen students' horizon of thinking. . Project Expo is conducted with an exceptional idea to showcase the research talents, innovativeness, creativity of students .

In JCE, we have interaction with professional bodies like CSI, IEI and ISTE. Students have drawn a lot of benefits in being active in the professional bodies which provide continuous professional development in students by conducting training sessions periodically on current trends in technology. Students have built a network with numerous people in the profession and improved the leadership and teamwork skills in student members.

These areas of exposure make the students understand about the significance of scientific applications in the daily life of the people. JCE supports and motivate students to put their efforts

and achievement in the field of science and technology for welfare of human being by adopting and implementing new technologies for the development of the science and to scientific minded citizens in the country.

Research is a precursor to discovery and innovation. JCE recognizes the importance of research, has initiated rigorous R & D activities on campus. The R & D cell comprises faculty members from various departments in the Institution. This cell oversees the smooth and efficient coordination of research and development activities in the Institution and overall growth. The members have contributed towards enhancing research and development at Jerusalem College of Engineering. The R&D cell measures the attainment of achievements and recommends the performer for appreciation and incentives.

R&D Cell facilitates creation and transfer of knowledge by conducting technical workshops, seminars, industrial visits, Training programs, National and International Conferences, Technical presentations by faculty members, publication of papers in national and international journals of Scopus Indexed, SCI and Web of Science and also provides mechanism for submission of research proposals for funding by Institute/University and other funding agencies.

R&D Cell has the responsibility of regulating the research activities of faculty members, research scholars and students of the Institution. It also initiates research components in the curriculum of UG and PG Programs.

Research division of JCE focuses on social, industrial and environment challenges through extensive core and multi-disciplinary research. Main objectives are:

- To encourage and support faculty members to conduct research in all fields and disciplines of Engineering and Applied Science.
- To establish consultancy projects for the benefit of the society.
- To utilize existing facilities effectively and to establish state-of-art facilities for advanced research.
- To file more number of patents.
- To integrate research and education.
- To develop core group of faculty with increased potential of research.
- To establish Centers of Excellence in thrust areas.

- To set up the Incubation Centers to motivate innovations and startups.
- To adopt Collaborative Research with IIT, NIT, Hospitals, Research centers and relevant industries.
- To mentor the academic and industry based research projects.
- To publish the research works in renowned journals.
- To motivate and mentor students to participate in various national and International contests, conferences and workshops.

A good research centershould have enough experience in the fields that it handles. Even though it is a fact that new centers can offer you services that are equally good, a center that has enough research experience can handle a project more effectively and faster. Thus JCE has an exceptional and proficient performance in the area of research.

Nearly 300 papers have been published by faculty members in reputed national and international journals. Around 50 funded research projects have been funded to be carried out and have been completed successfully. The Centre of excellence has been created for 5 different courses to facilitate research for faculty and students. During the past five years, nearly 25 consultancy projects have been carried out by the various departments of JCE for different government and non-government agencies and organizations. To promote and inculcate the intuition about the notion of research among students, faculty members have joined hands with students in participating and presenting papers in various national and international conferences. With the financial assistance from MSME under incubation scheme, Jerusalem Innovation & Incubation Council supports students by training them to gain administrative skills and to setup start-up companies from innovative ideas. The success of this effort has been proved by the number of students who pursue higher studies, either in India or abroad and the Ph D scholars developed by JCE research center.

We also create business opportunities for students with constant guidance through various programs and schemes to achieve success in Entrepreneurship. Entrepreneurship Development Institute (EDI), Tamilnadu along with Anna University, Chennai has identified our college as one of the spoke colleges under the Innovation & Entrepreneurship development program (IEDP). We have also got funding from various Government and Non-Governmental funding agencies such as Department of Science and Technology (DST), under the scheme of NIMAT (National Implementing and Monitoring Agency for Training) and Betamonks Technology Factory private limited

etc. We also conduct Entrepreneurship Awareness Camps, Guest lectures, My Success Story- Experience sharing programs from renowned entrepreneurs along with Industrial visits to start-ups, Incubation centers, and facilitation centers for students. We also have a Young Indians Yuva club for promoting entrepreneurial skills through various programs.

Jerusalem College of Engineering (Autonomous) had applied to establish Institution's Innovation Council in their campus on July 29, 2019. This IIC application has been scrutinized and had been approved by Ministry of Human Resource Development in the month of August 2019. The primary mandate of IIC is to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes while they are informative years. MIC has envisioned encouraging creation of 'Institution's Innovation Council (IICs)' across selected HEIs. JCE has produced 10 successful entrepreneurs during the past years.

College placement serves as anoutstanding platformfor the students to gain specific skills related to their subject of choice or domain to stay ahead of the competition by providing them with live projects, internships that provides adequate corporate exposure. Every year more than 85% of students get placed in reputed MNCs like CTS, Wipro, TCS, etc.

Better interaction between Technical institutions and industry is the need of the hour. Industry Institute Interaction(III) cell enhances fresh perspectives on entrepreneurship and business proposals. Bridging the gap between industry and the academic institute is essential in career aspects . Industry Institute Interaction Cell at Jerusalem college of Engineering will be responsible for designing the roadmap for interaction with Industry. Industry Institute Interaction cell measures the inherent strengths and weakness of the institution in interaction with the industry and frames policies to improve the strengths and give suitable remedy to alleviate the weakness.

Activities carried out under Industry-Institute Interaction Cell

- Industrial product Consultancy, collaborative projects and sponsored projects
- Industrial testing (Proofing & Calibration)
- Established center of excellence in college
- Used specialized database / lab equipment of the college by the industry

- Research guidance obtained from industry for carrying out the final year projects
- Joint research publication made to provide solution for real-time problems
- Joint patents have been proposed
- Industry visits by faculty members, lab instructors and students were taken up

Industry Institute Interaction Cell at JCE is responsible for the increased number of industry visits by staff and students. The collaboration with industry in terms of consultancy projects and sponsored projects has shown a tremendous increase in JCE. There has been an increase in the rate of campus placement of students and absorption of students by same industries providing industrial training. Every semester many number of industrial trainings are arranged by III cell for students which facilitate the increased utilization of institute resources by industry. Various events like seminars and guest lectures have been carried out in which technology sharing and invited-talks on latest technologies practiced in the industry.

The prime roles of III is to provide support to all the department for industry initiatives and to facilitate departmental initiatives for improving Industry Interaction through which students can be benefitted with knowledge and placements. As an outcome of the role played by III of JCE, MoU has been signed with 61 with leading associations, industries and companies during the past 5 years and 37 activities like workshops, seminars, entrepreneurship enhancements programs, etc. have been conducted as a sign of the MoU. III has facilitated nearly 300 students to attend internship programs in those companies. Through the III, various industries have provided placement offers for around 250 students.

The Intellectual Property Rights (IPR) Cell is focused to recognize the importance of generation of intellectual property by its faculty members and students. The cell encourages the creativity and innovations of its people which lead to generation of Intellectual Property (IP). The cell is committed to support and guide the students and faculty members in protecting their innovative and creative ideas. JCE has developed into a center of excellence in fields related to IPR Education within an educational Framework and practices for socio-economic development.

The main activities carried out by the IPR Cell include the

following:

- Creating an awareness about IPR for faculties and students of the Institution.
- Encouraging creative and innovative research among faculty and students leading to the creation of new knowledge, invention and ideas in all disciplines.
- Assisting faculty and students to file patents and train them in patent filing procedures.
- Conductance of workshops, seminars and training programs on IPR and patent filing processes.
- Supporting disseminated knowledge on patents and registration methods in India and abroad.
- Encouraging faculty members and scholars towards patentable works and innovation.
- Coordination between Inventors, IP consultants, Attorneys and PEC authorities for filing and managing patents.
- Educating the faculty on obtaining copyrights for their publications.

Providing awareness to the public through IPO RoadShows, IP Street Play and various competitions.

File Description	Documents
Appropriate link in the institutional website	https://jerusalemengg.ac.in/about-us/about-us.php
Any other relevant information	View File

7.3.2 - Plan of action for the next academic year

1. Plan to start two new programmes

2. To get more fundded project from Government agencies

3. Motivate the students to take up the internship from IIT and NIT institutions

4. To sign MoUs with International Universities