

# **JERUSALEM COLLEGE OF ENGINEERING**

[An Autonomous Institution affiliated to Anna University]

**Minutes of the 2<sup>nd</sup> meeting of Board of Studies for the Department of Civil Engineering held on 3<sup>rd</sup> July at 11.A.M through Google Meet.**

## **Members present:**

1. Dr. C. Nirmala Rani, Professor and HOD - Civil Engineering, Jerusalem College of Engineering.
2. Dr. G. Janardhanan, Associate Professor and Head i/c, Centre for Environmental Management, National Institute of Technical Teachers Training and Research, Taramani, Chennai.
3. Dr. P. S. Joanna, Professor, Department of Civil Engineering, Hindustan University, Padur.
4. Dr. P.T. Ravichandran, Professor, Department of Civil Engineering, Kattankulathur Campus, SRM Institute of Science and Technology.
5. Mr. R. Padmanaban, General Manager, Bharat Engineering Construction Company (P) Ltd.
6. Mr. C. R. Rajasekar, Director, HR-Universal Group.
7. Dr. N.S. Elangovan, Dean-Student Affairs, Jerusalem College of Engineering.
8. Ms. S. Geetha, Associate Professor, Jerusalem College of Engineering.
9. Dr. S. Suriya, Associate Professor, Jerusalem College of Engineering.
10. Ms. K. Nandini, Assistant Professor, Jerusalem College of Engineering.
11. Mr. A. Sargunaraj, Assistant Professor, Jerusalem College of Engineering.
12. Mr. R. Balaraman, Assistant Professor, Jerusalem College of Engineering.
13. Ms. R. Subharanjani, Assistant Professor, Jerusalem College of Engineering.

At the outset, the Chairperson welcomed the members for the 2<sup>nd</sup> meeting of the Board of Studies through Google Meet. The Chairperson highlighted the distinctiveness of the curriculum designed for the undergraduate programme and post graduate programme offered by the Department of Civil Engineering under regulation 2019 which was approved in the first Board of Studies meeting held on 29<sup>th</sup> July, 2019. She informed the members that this meeting was focused on finalization of syllabi of courses offered in the second year of respective study by considering all the suggestions given by the respected experts from University and Industry.

The agenda points were discussed in detail as mentioned below:



**Item No. 1 - Approval of Syllabi for the UG courses offered in II year [3<sup>rd</sup> and 4<sup>th</sup> semesters of Batch 2019 - 23] of the Department of Civil Engineering under R2019, Jerusalem College of Engineering**

The syllabi of both theory and laboratory courses that are offered in the third and fourth semesters for undergraduate students following R2019 was presented by the Chairperson. Suggestions given by members were incorporated and the syllabi were finalized.

- JCE 1301 - Surveying Syllabus was revised with the inclusion of advanced surveying methods.
- Free open source software QGIS has been included in Unit V of the subject JCE 1301 - Surveying.

**Item No. 2 - Approval of syllabi of Professional / open electives offered by the department in the 4<sup>th</sup> semester for the Batch 2019 - 23.**

The list of professional electives and open electives to be offered in the fourth semester for undergraduate students of Batch 2019 - 23 was displayed by the Chairperson and the syllabi of each of the course was discussed and finalized. The Chairperson informed the members that students can take up Swayam courses as open electives after due validation from the class advisor, HoD and Dean Academics.

- As per suggestions of the members, the open elective subject Waste management syllabus has been revised in which two new units such as; Biomedical Waste Management and E-waste and Industrial Waste Management have been included.

**Item No. 3 - Approval of Syllabi for the PG courses offered in II year [3<sup>rd</sup> and 4<sup>th</sup> semesters of batch 2019 - 21] of the Department of Civil Engineering under R2019, Jerusalem College of Engineering.**

The syllabi of both theory and laboratory courses that are offered in the third and fourth semesters for postgraduate students following R2019 was presented by the Chairperson. The list of Professional electives offered in the third and fourth semesters were also displayed, and syllabi of each course was presented. Suggestions given by members were incorporated and the syllabi was finalized.

**Item No. 5 - Ratification and Approval of the revised panel of Examiners (Both Internal & External) to be forwarded to Academic Council**

Members approved the revised list of internal and external examiners that was presented by the Chairperson.



## Item No. 6 - Methodologies for innovative Teaching and Evaluation Techniques

The Chairperson elaborated on various digital teaching methods such as Google Meets, Zoom, Google Classroom, Cisco WebEx, WhatsApp and other platforms which were adopted by faculty members for teaching and evaluation during this crisis period. The Chairperson also highlighted the enthusiastic participation of their students and faculty in taking up value added courses through JCE COURSERA CAMPUS PROGRAM which was a huge success among JCE students and faculty.

Year	Enrolled Members	Total Enrolled Subjects	Status/Completed
I Year CE	13	175	147
II Year CE	17	17	17
III Year CE	38	94	34
IV Year CE	18	31	12
<b>Total</b>	<b>86</b>	<b>317</b>	<b>210</b>

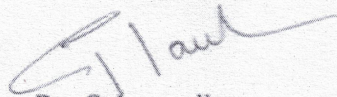
- First Year Civil Engineering student Mr.A.G.S. Lokesh has completed 95 courses during this lockdown period.
- Some of the courses students have undergone through course era are listed below.
  - Autodesk Certified Professional: Revit for Structural Design Exam Prep
  - Autodesk Certified Professional: AutoCAD for Design and Drafting Exam Prep
  - Learning How to Learn: Powerful mental tools to help you master tough subjects
  - 3D Printing Software
  - Municipal Solid Waste Management in Developing Countries
  - Mind Control: Managing Your Mental Health During COVID-19
- Through Civil Engineering Association, Technical Symposium has been organized.
- Workshops and guest lectures are frequently conducted.
- Students were encouraged to present their innovative ideas in the form of models, posters and presentations on Innovation Day.
- During this lockdown period, Webinars on various topics including PRIMAVERA, COSTX, BIM and REVIT ARCHITECTURE were conducted.
- A webinar titled "Methane gas recovery from municipal and industrial waste" was organized in remembrance of World Environment Day on 05<sup>th</sup> June.
- Online events are being continuously conducted through two active clubs named EoGreen and Construction Engineering clubs.
- Faculties have successfully completed the one week Faculty Development Program on "Moodle Learning Management System" conducted by Government Arts and Science College in association with Indian Institute of Technology, Bombay.



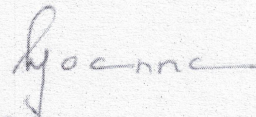
The meeting ended by the Chairperson thanking all the members for their presence and overall suggestions which she ensured would be incorporated and forwarded to Academic Council.



Dr. C. Nirmala Rani  
CHAIRPERSON



Dr. G. Janardhanan  
ANNA UNIVERSITY NOMINEE



Dr. P.S. Joanna  
SUBJECT EXPERT



Dr. P.T. Ravichandran  
SUBJECT EXPERT



Mr. R. Padmanaban  
INDUSTRY EXPERT



Mr. C.R. Rajashekar  
ALUMNUS



**JERUSALEM COLLEGE OF ENGINEERING**  
**(An Autonomous Institution, Affiliated to Anna University, Chennai)**  
**DEPARTMENT OF CIVIL ENGINEERING**  
**MINUTES OF BOS MEETING HELD ON 29/07/2019**

The Minutes of the 1<sup>st</sup> meeting of Board of Studies for the Department of Civil Engineering was held on 29-07-2019 at 10.00 a.m. in Conference Hall, Jerusalem College of Engineering.

**Members present:**

- Ms. C. Nirmala Rani, Associate Professor and HOD i/c - Civil Engineering
- Dr. G. Janardhanan, Associate Professor and Head i/c, Centre for Environmental Management, National Institute of Technical Teachers Training and Research, Taramani, Chennai.
- Dr. P. S. Joanna, Department of Civil Engineering, Hindustan University, Padur.
- Dr. P.T. Ravichandran, Department of Civil Engineering, Kattankulathur Campus, SRM Institute of Science and Technology.
- Mr. R. Padmanaban, General Manager, Bharat Engineering Construction Company (P) Ltd.
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- Dr. N.S. Elangovan, Dean-Student Affairs, Jerusalem College of Engineering.
- Ms. S. Geetha, Associate Professor, Jerusalem College of Engineering.
- Dr. S. Suriya, Associate Professor, Jerusalem College of Engineering.
- Ms. J. Herbert Sinduja, Assistant Professor, Jerusalem College of Engineering.
- Ms. K. Nandini, Assistant Professor, Jerusalem College of Engineering.
- Mr. T. Ananth, Assistant Professor, Jerusalem College of Engineering.
- Mr. K.R. Vinodh, Assistant Professor, Jerusalem College of Engineering.
- Mr. L.Chris Anto, Assistant Professor, Jerusalem College of Engineering.
- Mr. A. Sargunaraj, Assistant Professor, Jerusalem College of Engineering.
- Mr. R. Balaraman, Assistant Professor, Jerusalem College of Engineering.
- Ms. V. Gayathri Devi, Assistant Professor, Jerusalem College of Engineering.
- Ms. R. Subharanjani, Assistant Professor, Jerusalem College of Engineering.
- Mr. D.V. Adhithyaa, Assistant Professor, Jerusalem College of Engineering.

The Chairperson welcomed the members for attending the 1<sup>st</sup> meeting of the Board of Studies. The following are the agenda points discussed in detail:

1. **Ratification for continuation of Anna University Curriculum and Syllabi for II, III and IV year U.G. students under R2017 and R2013 respectively and II P.G of R2017, Anna University.**

The Chairperson informed the members that the present second and third year B.E. (CE) and M.E (Construction Engineering and Management) students admitted under Anna University will continue to follow the regulation 2017 and the fourth year students of B.E. (CE) will follow Anna University regulation 2013. As the college has now been granted Autonomous status, the Chairperson sought approval from the members to continue with the same curriculum and



syllabi with the flexibility of conducting examinations (both Assessment and End Semester) through the office of Controller of Examinations, Jerusalem College of Engineering. The members accepted the proposal of the Chairperson.

**2. Approval of curriculum and Syllabi of R2019 (CBCS) for I & II Year PG M.E. (CEM)**

The Chairperson sought approval from the members to continue with the same curriculum and syllabi with the flexibility of conducting examinations (both Assessment and End Semester) through the office of Controller of Examinations, Jerusalem College of Engineering for I and II year P.G M.E (Construction Engineering and Management) students. The members accepted the proposal.

**3. Approval of UG curriculum for Semester I - VIII of R2019 (CBCS), Jerusalem College of Engineering.**

The Chairperson presented the curriculum for B.E. - Civil Engineering programme designed for R2019 (CBCS), to be followed from the academic year 2019-20. The curriculum of each semester was discussed in detail and the summary of the number of credits allotted for each category was informed by the Chairperson and the same was approved by the members.

**4. Approval of Syllabi for the first year technical courses**

The syllabi of the technical subjects that occur in the first and second semester of R2019 were presented by the Chairperson.

- Engineering Basics- Unit I - BASICS OF CIVIL ENGINEERING and Unit II - BASICS OF MECHANICAL ENGINEERING- I Sem.
- Design Appreciation Laboratory - I Sem ( Group A)
- Engineering Mechanics - II Sem.
- Engineering Graphics and Design - II Sem.
- Computer Aided Building Design - II Sem.
- Environmental Sciences - II Sem

The BOS members suggested to include UGC prescribed reference books, online courses and web references. Suggestions given by the members were incorporated and the syllabi were finalized.

**5. Approval of the panel of Examiners (Both Internal & External) which has to be forwarded to the Academic Council**

The Chairperson presented the list of internal and external examiners to the members. The members recommended the list that has to be forwarded to the Academic Council for the approval. The lists of panel members are enclosed in Annexure. BOS members recommended that the faculty with more than five years experience may be considered for panel members list.

**6. Methodologies for innovative Teaching and Evaluation Techniques**

The Chairperson suggested different innovative methods for teaching and evaluation. The members also gave suggestions and ideas that could be implemented for better teaching - learning environment which includes concept mapping and flipped classroom.



**Additional Remarks:**

The meeting ended by the Chairman thanking all the members for their presence and overall suggestions which she ensured would be incorporated and forwarded to Academic Council.

**CHAIRPERSON**



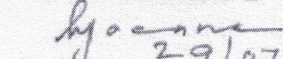
(Ms. C. Nirmala Rani)

**SUBJECT EXPERT 1**

  
29/7/19


(Dr. P.T. Ravichandran)

**SUBJECT EXPERT 2**

  
29/07/2019


(Dr. P.S. Joanna)

**ALUMNI**

  
✓


(Mr. C.R. Rajasekar)

**INDUSTRY EXPERT**

  
✓

(Mr. R. Padmanaban)

**ANNA UNIVERSITY NOMINEE**

  
✓

(Dr. G. Janardhanan)