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Sant Dnyaneshwar Shikshan Sanstha's

**ANNASAHEB DANGE COLLEGE OF
ENGINEERING & TECHNOLOGY**

(Approved by AICTE, New Delhi, Govt. of Maharashtra.
Affiliated to Shivaji University, Kolhapur)

Ref. **ADCET/cvii/190**

Date: **20/08/2022**

Department of Civil Engineering

All the members of "Board of Studies" are invited for a meeting which is scheduled on Thursday 25-08-2022 at 10.30 am. The agenda of meeting is as below.

Agenda of Meeting

1. Review of 6th Board of Studies meeting held on 16th October 2021
2. Discussion on 2nd revision of curriculum structure.
3. Discussion on First Year B. Tech courses and course curriculum.
4. Discussion on value added courses
5. Discussion on courses under category open electives.
6. Discussion on courses under category professional electives
7. Discussion on examination system and scheme.
8. Discussion on mode of conduct for In semester evaluation.
9. Discussion on Question paper pattern.
10. Any other points for discussion with permission of chairperson.



Mr. S. S. Mohite
(HOD-Civil Engineering)



Department of Civil Engineering

Date: 25/08/2022

Board of Studies: Minutes of meeting

- The meeting of “**Board of Studies**” was held on **Thursday 25-08-2022** at 10.30 am under chairmanship of Head of Civil Engineering Department.
- Following members were participated in meeting
Dr. M. B. Kumthekar
Dr. Y. M. Ghugal
Dr. P. B. Kodag
Dr. H. R. Magar-Patil
Er. Aman Arawal
Head of department
All faculty members of Civil Engineering Department.
- One by one agenda points were discussed and very accountable inputs were received from BOS members.

1: Review of 6th Board of Studies meeting held on 16th October 2021.

- The 6th BoS meeting was held on 16th October 2021. The points discussed in the meeting were read by chairman. It was brought to the notice of the BOS members that, all suggestions were implemented during framing of curriculums. As per discussion in the last meeting department is offering Honor Degree and Minor degree program on GIS, GPS and Remote Sensing area. The course offering agencies are IIRS, SWAYAM, NPTEL, edx, ESRI.

2: Discussion on 2nd revision of curriculum structure.

- Head of Department presented the curriculum structure for B. Tech Civil Engineering based on AICTE guidelines and industry requirements.
- BOS members suggest to include the courses in curriculum structure which will create interest in the students and enough competent for the students to face the placement drive.
- Internship for the students should be allotted in different fields of Civil Engineering like bridge structure, road pavement, tunnel, dam, high rise buildings, railway project-metro rail, surveying using advanced instruments, etc. For the same the list of companies should be prepared from different regions.



3: Discussion on First Year B. Tech courses and course curriculum.

- For First Year B. Tech courses under category Humanities and Social Sciences, Basic Science, Engineering Science and Value added Courses are included. More weightage is adopted for Engineering Science courses.
- Concern faculty members have prepared and presented the syllabus for the First Year B. Tech courses.
- Suggestions given by the experts are mentioned in the **Annexure I**
- Action taken report is as mentioned in the **Annexure II**

4: Discussion on Value added courses.

- Value added courses are adopted for First and Second Year B. Tech i.e. semester I, II, III and IV as an audit course.
- Value added courses are divided in two parts as Value Added Course – I, Value Added Course - II
- List of value added courses are divided in two parts as mentioned in the **Annexure III**
- For each semester student has to apply for one value added course.
- Concern faculty members have prepared and presented the syllabus for the value added courses.

5: Discussion on courses under category open electives

- Civil Engineering Department offering two courses as an open electives for semester V, VI, VII.
- List of open electives offered by Civil Engineering department and other departments is as mentioned in the **Annexure IV**

6: Discussion on courses under category professional electives

- Civil Engineering Department offering domain wise course under category professional electives for the semester IV, V, VI, VII.
- List of professional electives is as mentioned in the **Annexure V**.

7: Discussion on examination system and scheme

- Examination system and scheme is discussed at depth and approved by BoS members.
- For theory courses assessment is done in three parts
 - In semester evaluation (ISE-I and ISE-II): Activity Based Assessment: 20 Marks
 - Mid semester examination: Written Examination: 30 Marks
 - End Semester Examination: Written Examination: 50 Marks [33% weightage for unit 1,2,3 : 2 Questions and 66% weightage for unit 4,5,6 : 4 Questions]
 - Re-Examination [After 15 days of ESE] : As like ESE
 - 100 % Examination [After 15 days of Re-ESE but once in a year]-Equal Weightage to all units
- **For Laboratory Course, Assessment is done in two parts**
 - In Semester Evaluation (ISE) [50 Marks] – Experimental Performance
 - End Semester Evaluation (ESE) [50 Marks] – Oral Examination



8: Discussion on mode of conduct for In semester evaluation

- It is decided to conduct Activity Based Assessment for In semester evaluation. For assessment rubrics should be prepared for all courses.
- The list of modes of conduct of In semester evaluation is below.

| Sr. No. | Mode of conduct of Exam | Sr. No. | Mode of conduct of Exam |
|---------|-------------------------|---------|--|
| 1 | Group Activities | 10 | Topic Presentations |
| 2 | Poster presentation | 11 | Problem solving activity |
| 3 | Videos | 12 | Demos |
| 4 | Group discussion | 13 | Compact Analysis (Individual Analysis) |
| 5 | Spot presentation | 14 | Assignment & oral |
| 6 | Jigsaw puzzle | 15 | Programming |
| 7 | Mini Models & oral | 16 | Case Study |
| 8 | Quizzes | 17 | Review Activity (Recent Trends) |
| 9 | Seminars | 18 | Competitions |

9: Discussion on Question paper pattern.

- The pattern of question of each course is discussed in depth. The questions in question paper will be such that it will assess different skills of students. If possible more weightage should be given to analytical questions. The suggestions given by BOS members will be implemented while setting the question papers in future.
 - The efforts taken by the faculty members for framing the curriculum is appreciated by the BOS members.
 - At the end Prof. R. A. Patil presented the Vote of Thanks.




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HOD-Civil Department

Annexure I:

Suggestions from members of Board of Studies regarding Curriculum of F. Y. B. Tech

| Final Year B. Tech (160 Credits) | | | |
|---|--|-------------------|--|
| Sr. No. | Course Name | Corse Code | Suggestions given by BoS members |
| 1 | Applied Mathematics-I | 2CVBS101 | <ul style="list-style-type: none">• Add content related to GATE examination• Add content related to Civil Engineering applications. |
| 2 | Applied Mechanics-II | 2CVBS101 | |
| 3 | Applied Mechanics | 2CVES103 | <ul style="list-style-type: none">• Add the concept of static friction in unit-2 |
| 4 | Professional Communication | 2CVHS151 | <ul style="list-style-type: none">• Add vocabulary building games or competitions among students.• Add activities to boost stage performance of student |
| 5 | Design Thinking | 2CVES155 | <ul style="list-style-type: none">• Add application part to Civil Engineering. |
| 6 | Programming for Problem Solving Laboratory | 2CVES159 | <ul style="list-style-type: none">• Add another course for T. Y. B. Tech of high level programming language i.e. Python |




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Annexure II: Action Taken Report

| Sr. No. | Suggestion | Proposed action |
|---------|--|--|
| 1 | Add Civil Engineering applications oriented part | It is decided to add Civil Engineering application oriented concepts for various courses. |
| 2 | Add a course related to Payton language. | It is decided to add Payton language at T. Y. B. Tech level. |
| 3 | Use activity based assessment for In Semester Evaluation | It is decided to conduct various activity based in semester assessment like Jigsaw puzzle, Model making, Poster presentation, Presentations and Seminar, Video preparation / presentation, Snake and Ladder, Brain-storming, Case study, Debate, Pictionary, Group discussion, Problem solving, Role play. |
| 4 | Add on course for skill development of the students | Training sessions were planned on Software's like STAAD PRO, ABAQUS, AutoCAD, REVIT ARCHI and Total Station. |
| 5 | Add application part, software's in course curriculum | It is decided to revise the course curriculum to add topics of application part as well as software. |




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Annexure III: List of Value Added Course

| Value Added Course - I | |
|--------------------------------|-----------------------------------|
| Sr. No. | Name of value added course |
| 1 | Badminton |
| 2 | Volley Ball |
| 3 | Kabaddi |
| 4 | Foot Ball |
| 5 | Yoga |
| 6 | Indian Folk Dance |
| 7 | Western Dance |
| 8 | Karaoke Singing |
| Value Added Course - II | |
| 1 | Table -Tennis |
| 2 | Kho-Kho |
| 3 | Basket ball |
| 4 | Hand Ball |
| 5 | Katthak Classical Dance |
| 6 | Bharatnatyam Classical Dance |
| 7 | Harmonium Classical Music |
| 8 | Tabla Classical instruments |



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Annexure IV: List of Courses as Open Elective

| Open Elective I – Sem. V | | |
|---------------------------------|---|----------------------------------|
| Course Code | Course Name | Course Offered by |
| 2ME0E101 | M/CS and Mechanisms | Mechanical Engineering |
| 2ME0E102 | Manufacturing Engineering | |
| 2CSOE301 | Database Essentials | Computer Science and Engineering |
| 2CSOE302 | Software Engineering and Project Management | |
| 2CSOE303 | Data Structures and Algorithms | |
| 2EEOE301 | Electrical Technology | Electrical Engineering |
| 2EEOE302 | Electrical and Electronics Measurements | |
| 2CVOE301 | Air Pollution & Control | Civil Engineering |
| 2CVOE302 | Remote Sensing & GIS Applications | |
| 2AUOE301 | Product design and development | Automobile Engineering |
| 2AUOE302 | Automotive Refrigeration and air conditioning | |
| 2AEOE101 | Introduction to Aerospace Engineering | Aeronautical Engineering |
| 2AEOE102 | Drone Piloting | |

| Open Elective II – Sem. VI | | |
|-----------------------------------|--|----------------------------------|
| Course Code | Course Name | Course Offered by |
| 2ME0E103 | Vehicle Engineering | Mechanical Engineering |
| 2ME0E104 | Energy Engineering | |
| 2CSOE310 | Internet of Things | Computer Science and Engineering |
| 2CSOE311 | Cyber Laws and Ethical Hacking | |
| 2EEOE306 | Electrical Wiring Harnessing | Electrical Engineering |
| 2EEOE307 | Electrical Economics & Energy Audit | |
| 2CVOE310 | Operations Research | Civil Engineering |
| 2CVOE311 | Environmental Impact Assessment | |
| 2AUOE310 | Vibration based fault diagnosis | Automobile Engineering |
| 2AUOE311 | Engineering Tribology | |
| 2AEOE103 | Dynamics and Control of Aerospace Vehicles | Aeronautical Engineering |
| 2AEOE104 | Space Transportation Systems | |

| Open Elective III– Sem. VII | | |
|------------------------------------|----------------------------------|----------------------------------|
| Course Code | Course Name | Course Offered by |
| 2ME0E105 | Reliability Engineering | Mechanical Engineering |
| 2ME0E106 | Vibration Measurement & Analysis | |
| 2CSOE401 | Computer Vision | Computer Science and Engineering |
| 2CSOE402 | Machine Learning | |
| 2EEOE401 | Electric and Hybrid Vehicles | Electrical Engineering |
| 2EEOE402 | Wind and Solar Energy Systems | |
| 2CVOE401 | Human Resources Development | Civil Engineering |
| 2CVOE402 | Disaster Management | |
| 2AUOE401 | Vehicle maintenance and safety | Automobile Engineering |
| 2AUOE402 | Vehicle Aerodynamics | |
| 2AEOE105 | Helicopter Engineering | Aeronautical Engineering |
| 2AEOE106 | Composite Structure Fabrication | |




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Annexure V: List of Courses as Professional Elective

| Professional Elective I – Sem. IV | | | |
|--|---------------------------|--------------------|-----------------------------------|
| Sr. No. | Domain | Course Code | Professional Elective I |
| 1 | Structural Engineering | 2CVPE211 | Composite Materials |
| 2 | Construction Management | 2CVPE212 | Safety Aspects in Construction |
| 3 | General Civil Engineering | 2CVPE213 | Remote Sensing & GIS Applications |
| 4 | Environmental Engineering | 2CVPE214 | Air Pollution and control |

| Professional Elective II – Sem. V | | | | | |
|--|---------------------------|--------------------|----------------------------------|--------------------|---|
| Sr. No. | Domain | Course Code | Professional Elective II | Course Code | Professional Elective II Laboratory |
| 1 | Structural Engineering | 2CVPE306 | Structural Auditing | 2CV PE354 | Structural Auditing Laboratory |
| 2 | Construction Management | 2CVPE307 | Advanced Construction Techniques | 2CV PE355 | Advanced Construction Techniques Laboratory |
| 3 | Environmental Engineering | 2CVPE308 | Solid Waste Management | 2CV PE356 | Solid Waste Management Laboratory |
| 4 | General Civil Engineering | 2CVPE309 | Engineering Geology | 2CV PE357 | Engineering Geology Laboratory |

| Professional Elective III – Sem. VI | | | | | |
|--|---------------------------|--------------------|---|--------------------|---|
| Sr. No. | Domain | Course Code | Professional Elective III | Course Code | Professional Elective III Laboratory |
| 1 | Structural Engineering | 2CVPE315 | Repair & Rehabilitation of Structures | 2CVPE360 | Repair & Rehabilitation of Structures Laboratory |
| 2 | Construction Management | 2CVPE316 | Human Resources Development | 2CVPE361 | Human Resources Development Laboratory |
| 3 | Environmental Engineering | 2CVPE317 | Waste water treatment and Pollution control | 2CVPE362 | Waste Treatment Laboratory and Pollution control Laboratory |
| 4 | General Civil Engineering | 2CVPE318 | Ground Improvement Techniques | 2CVPE363 | Ground Improvement Techniques Laboratory |

| Professional Elective IV – Sem. VII | | | | | |
|--|---------------------------|--------------------|----------------------------------|--------------------|---|
| Sr. No. | Domain | Course Code | Professional Elective III | Course Code | Professional Elective III Laboratory |
| 1 | Structural Engineering | 2CVPE406 | Advanced Concrete Design | 2CVPE451 | Advanced Concrete Design Laboratory |
| 2 | Construction Management | 2CVPE407 | Operation Research | 2CVPE452 | Operation Research Laboratory |
| 3 | Environmental Engineering | 2CVPE408 | Hydraulic Structures | 2CVPE453 | Hydraulic Structures Laboratory |
| 4 | General Civil Engineering | 2CVPE409 | Solid Waste Management | 2CVPE454 | Solid Waste Management Laboratory |




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