

- 'A' Grade Institute Accredited by NAAC, Bangalore
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An Autonomous Institute

Ref. ADCET/CIVIL/322



Sant Dnyaneshwar Shikshan Sanstha's  
**ANNSAHEB DANGE COLLEGE OF  
ENGINEERING & TECHNOLOGY**

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

Date: 17/07/2023

## Department of Civil Engineering

All the members of "Board of Studies" are invited for a meeting which is scheduled on Saturday 22-07-2023 at 10.30 am. The agenda of meeting is as below.

### Agenda of Meeting

1. Review of 7<sup>th</sup> Board of Studies meeting.
2. NEP Compliance curriculum, Institute guidelines.
3. Discussion on category wise credit distribution.
4. Discussion on 2<sup>nd</sup> revision of curriculum structure.
5. Discussion on curriculum for Second Year B. Tech.
6. Discussion on Program electives.
7. Discussion on minor courses.
8. Discussion on multiple exists.
9. Discussion on examination and mode of conduct.
10. Any other points for discussion with permission of chairperson.



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

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## Department of Civil Engineering

Date: 22/07/2023

### Minutes of 8<sup>th</sup> Board of Studies meeting

- The meeting of "Board of Studies" was held on **Saturday 22-07-2023** at 11.00 am under chairmanship of Head of Civil Engineering Department.
- Following members were participated in meeting  
Dr. M. M. Mujumdar  
Dr. K. B. Prakash  
Dr. P. B. Kodag  
Mr. Vinayak M. Mali  
Head of department  
All faculty members of Civil Engineering Department.
- The chairperson Mr. S. S. Mohite welcomed the members of the Board of Studies and initiated the meeting. The following agenda points were discussed and very accountable inputs were received from BOS members.
  1. Review of 7<sup>th</sup> Board of Studies meeting.
  2. NEP Compliance curriculum & Institute's Guidelines.
  3. Discussion on category wise credit distribution.
  4. Discussion on 2<sup>nd</sup> Revision curriculum structure.
  5. Discussion on curriculum for Second Year B. Tech
  6. Discussion on Program Elective.
  7. Discussion on minor courses.
  8. Discussion on multiple exits.
  9. Discussion on examinations and mode of conduct.
  10. Any other points for discussion with permission of chairperson.

#### 1: Review of 7<sup>th</sup> Board of Studies meeting held on 22<sup>nd</sup> August 2022.

- The 7<sup>th</sup> BoS meeting was held on 22<sup>nd</sup> August 2022. The points discussed in the meeting were read by chairperson. As per suggestions given by members in the last meeting the application part is introduced in various courses. Payton language is included at third year level. Skill development courses like software trainings (STAAD PRO, ABAQUS,





AutoCAD, REVIT ARCHI, and Total Station) were included. Lists of value added courses, mode of assessment of in semester evaluation, professional electives were approved in the meeting by members.

## 2: NEP Compliance curriculum & Institute's Guidelines.

- Chairperson explained about the curriculum for B. Tech Civil Engineering which is based on guidelines provided by National Education Policy- NEP, AICTE and Institute and GR published by government of Maharashtra.
- At institute level guidelines are prepared to frame structure related to NEP compliance curriculum were presented which includes semester wise credits, category wise credit distribution, credits for open electives and minors, credits for mandatory courses and credits for extracurricular courses.
- In the meeting in depth discussion were made on multiple entry, multiple exists, multidisciplinary courses, internship, software competency, product development and vocational courses etc.
- BOS members suggested to include the courses in curriculum structure which will create interest in the students and enough competent the outside world with innovative skills of Civil engineering will help to phase competitive exams, become industry ready and become skilled entrepreneur.

## 3: Discussion on category wise credit distribution

- The chairperson presented the credits decided at institute level with reference to guidelines provided by UGC. The Category of courses and their respective credit are as shown in table. The BOS members are approved this with minor corrections.

Category	Sub Category	UGC Guideline	Institute Guideline for Credits	Department Credits as BOS
Basic Sciences		14-18	14-16	16
Engineering Sciences		12-16	12-14	12
Major	Program Core	44-56	74-80	76
Major	Program Electives ( 5 Courses)	20		
Minor		14	14	14
Open Electives – Other faculty (Pharmacy, Arts, etc)		08	08	08
Vocational and Skill Courses		08	08	08
Humanities and Social Sciences	Ability Enhancement Course	14	14	14
	Entrepreneurship/Economics/ Management Courses			
	Indian Knowledge System			
	Value Education Course			
Experiential Learning Courses	Research Methodology/ Project /Mini Project / Internship	22	18	18
Co-curricular Courses		04	4	4
	<b>Total</b>	<b>176</b>	<b>170</b>	<b>170</b>



#### 4: Discussion on 2<sup>nd</sup> Revision curriculum structure

- Chairperson presented the B. Tech curriculum structure. Semester wise courses discussed in depth category wise from first year to final year.
- BoS members suggested to define programme electives domain specific so that students will be made confident in specific domain. Such five domains with sequence of courses is discussed in depth.
- BoS members suggested to define stream for minors in civil engineering. We have decided in meeting two streams for same viz Environmental engineering and surveying and its application. The specific sequence of different courses under minors were decided. Also BOS suggested to keep minor project for three credits which will be evaluated in the last semester of B.Tech.
- Suggestions given by the experts are mentioned in the **Annexure I**

#### 5: Discussion on curriculum for Second Year B. Tech

- Second year curriculum of both semester were presented by concern faculties, brainstorming is done for each course from co defined to content of each course. Textbooks and reference book list is also discussed in depth in the meeting.
- BOS members were suggested to include new trends, applications, and hands on practice and also incorporate the curriculum of GATE and competitive exams.
- Members also suggested to include more experimental learning in the practicals. It is decided to carry out all drawing using CAD.
- Suggestions given by the experts and actions taken are mentioned in the **Annexure II**

#### 6: Discussion on Program Elective.

- As per thought given by Civil Engineering Department of offering domain wise course under category of program electives for the semester V, VI, VII, VIII was well appreciated by the members. Specified domains for same considered are Structural Engineering, Construction techniques and practices, Environment engineering, Geotechnical and Transpiration Engineering, Geo-information and Geology.
- List of program electives is as mentioned in the **Annexure III**.
- The curriculum of each program electives offered at second year level is discussed in depth and members were given some minor corrections to incorporate.

#### 7: Discussion on minor courses.

- After brainstorming in the department and as per guidelines floated by institute, chairperson presented two streams for minors which will offered to other departments are Environmental engineering and surveying and its applications which was appreciated by members. The Course Curriculum for courses offered at second year level is discussed in depth considering need of other disciplines and approved by members.
- List of minor courses offered by Civil Engineering department for other disciplines is as mentioned in the **Annexure IV**

#### 8: Discussion on multiple entry and exits.

- In the BoS meeting the rules and regulations of multiple entry and exist for the students in Civil Engineering is discussed.
- It is decided offer certificate at the end successfully completion of F.Y. with student should earn 8 more credits by completing certification course in the defined area.





- It is decided offer UG diploma at the end successfully completion of S.Y with student should earn 8 more credits in specific defined area.
- List of certification course and UG Diploma course is as mentioned in the **Annexure V**.

#### 9: Discussion on examination system and scheme

- Examination system and scheme is discussed at depth and approved by BoS members.
- **For theory courses ,**
  1. In semester evaluation (ISE-I and ISE-II): Activity Based Assessment: 20 Marks minimum two activities
  2. Mid semester examination: Written Examination: 30 Marks
  3. End Semester Examination: Written Examination: 50 Marks [30% weightage for unit 1, 2, 3: 2 Questions and 70% weightage for unit 4, 5, 6: 4 Questions.
  4. Makeup Examination [After 15 days of ESE]: As like ESE but Twice in the year
- **For Laboratory Course,**
  - In Semester Evaluation (ISE) [as per structure] – Lab/Tutorial performance
  - End Semester Evaluation (ESE) [50 Marks] –Practical/ Oral Examination

#### 10. 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 in advance.
- The list of modes of conduct of In semester evaluation is below which discussed in detail. It is decided that course teacher should display well in advance the mode of conduct to students.

Sr. No.	Mode of conduct of Exam	Sr. No.	Mode of conduct of Exam
1	Jigsaw puzzle	9	Open book test
2	Model making	10	Assignment & oral
3	Poster presentation	11	Pictionary
4	Spot presentation	12	Role Play
5	Video preparation/ presentation	13	Group Activities
6	Snake and ladder	14	Competitions
7	Group discussion	15	Problem solving activity
8	Case study	16	Quiz Competitions

#### 11. Any other points for discussion with permission of chairperson

Chairperson point out about Honour degree in the area of civil engineering and it is decided that more thought will be given on same in due course of time and will presented in the next meeting.

The efforts taken by the faculty members for framing the curriculum and team work is appreciated by the expert members. The meeting is ended with the Vote of Thanks by Mr. R A. Patil.



  
 Mr. S. S. Mohite  
 Chairman, BoS & HOD-Civil Department

## Action Taken Report

### Annexure I

#### Suggestion given by BoS members regarding curriculum structure

Board of studies members are suggested to change the name of some courses. The previous name of courses and suggested name of courses are as below.

Sr. No.	Corse Code	Previous name of course	Action taken (Revised name of course)
1	2CVPC205	Water resource engineering	Hydrology and Irrigation Engineering
2	2CVPC212	Inventory and materials management	Construction Management and Economics
3	2CVEL219	Innovation / Prototype	Product Development laboratory
4	2CVPE306	Water and Waste Water Engineering	Public Health Engineering
5	2CVPE39	Solid waste management	Sustainable Management of Solid Waste

Bos members are suggested to change the sequence of course for environmental domain



## Annexure II

### Suggestion given by BoS members regarding S. Y. B. Tech curriculum

Sr. No.	Corse Code	Course Name	Suggestions by BoS	Action taken
1	2CVPC201	Differential Equation and Calculus	Application part should be added	Civil Engineering application oriented curriculum is added.
2	2CVPC204	Advanced Surveying	More weightage should be given to advanced instruments, and software's	Advanced instruments like Total station, DGPIs are added in curriculum. Basics of QGIS software is added in curriculum.
3	2CVPC205	Hydrology and Irrigation Engineering	Canal and cross head	Concepts of canal and cross head are added
4	2CVPC209	Fluid Mechanics	Instead of dimension analysis add fluid kinematics, buoyancy weirs and notches	The concepts of fluid kinematics, weirs, notches are added in curriculum
5	2CVPC210	Concrete Technology	Add concept of Self-compacting concrete	The concepts of Self-compacting concrete is added in curriculum



### Annexure III: List of Program Elective

The list of course under category program electives

Sr. No.	Domain	Program Elective I	program Elective II	program Elective III	program Elective IV
1	<b>Structural Engineering</b>	Composite Materials	Structural Audit	Repair & Rehabilitation of Structures	Advanced Structural Design
2	<b>Construction Technique and Practices</b>	Investment Planning and Management	Safety Aspects in Civil Engineering	Advanced Construction Techniques	Human Resource Development
3	<b>Environment</b>	Public Health Engineering	Sustainable Management of Solid Waste	Air Pollution & Control	Ecological Design and Impact Assessment
4	<b>Geotechnical and Transportation Engineering</b>	Site Investigation Methods & Practices	Ground Improvement Techniques	Pavement Design & Analysis	Pavement Design & Analysis
5	<b>Geo informatics &amp; Geology</b>	Remote sensing	Engineering Geology	GIS & its Applications in Civil Engineering	Watershed Management





### Annexure IV: List of Minor Courses

The list of course under category minor courses.

Domain	Minor Course I	Minor Course II	Minor Course III	Minor Course IV	Minor Course V
<b>Surveying and Its Applications</b>	Satellite Geodesy (2CVSA213)	Global Navigation Satellite Systems (2CVSA30)	Remote Sensing and GIS (2CVSA32)	DGPS Survey (2CVSA40)	Project (2CVSA41)
<b>Environment Engineering</b>	Air Pollution Control (2CVEN21)	Water and Waste Water Engineering (2CVEN31)	Solid Waste Management (2CVEN32)	Environmental Impact Assessment (2CVEN41)	Project (2CVEN42)

#### List of courses for Double Minor (Specialization Minor)

Stream	Course I	Course II	Course III	Course IV	Course V
<b>Structural Engineering</b>	Foundation Engineering	Bridge Engineering	Finite Element Analysis	Structural Dynamics	Project
<b>Sustainability Engineering</b>	Basics of Sustainable Development	Life Cycle Analysis	Waste management for Smart Cities	Green product development	Project



**Annexure V: List of Courses for Multiple Entry-Multiple Exits**

<b>Certificate Awarded</b>	<b>Competency</b>	<b>Course Name</b>
<b>Certified Draftsman Engineer</b>	Competency in CAD	Measurement and Planning
		CAD Competency
		Project using CAD
<b>Certified Valuator Engineer</b>	Competency in Estimation and Valuation	Estimation and Valuation
		Software competency for Estimation.
		Project



Mr. S. S. Mohite  
Chairman, BoS & HOD-Civil Department



Photographs of Board of Studies Meeting





**Department of Civil Engineering  
 Board of Studies Meeting  
 Attendance Sheet**

Date: 22-07-2023

Sr. No.	Name of Member	Designation	Signature
1	Mr. S. S. Mohite	Chairman-BOS	V2
2	Dr. M. M. Mujumdar	VC- Nominee	M.M. Mujumdar
3	Dr. K. B. Prakash	Academic Expert	K.B. Prakash 22-7
4	Dr. P. B. Kodag	Academic Expert	Joined online
5	Mr. Sangram Sawant	Industry representative	- Ab -
6	Mr. Vinayak M. Mali	Alumni representative	V.M. Mali
7	Mr. S. B. Hivarekar	Member	S.B. Hivarekar
8	Dr. P. G. Chandak	Member	P.G. Chandak
9	Dr. M. H. Mota	Member	M.H. Mota
10	Dr. U. J. Phatak	Member	- Ab -
11	Mr. R. A. Patil	Member	R.A. Patil
12	Mr. R. V. Jadhav	Member	R.V. Jadhav
13	Ms. V. A. Lande	Member	V.A. Lande
14	Mr. P. A. Pisal	Member	P.A. Pisal
15	Mr. A. G. Mujawar	Member	A.G. Mujawar
16	Mr. P. A. Mali	Member	P.A. Mali
17	Mr. A. D. Patil	Member	A.D. Patil
18	Mr. K. K. Shinde	Member	K.K. Shinde
19	Mr. B. V. Mane	Member	B.V. Mane