

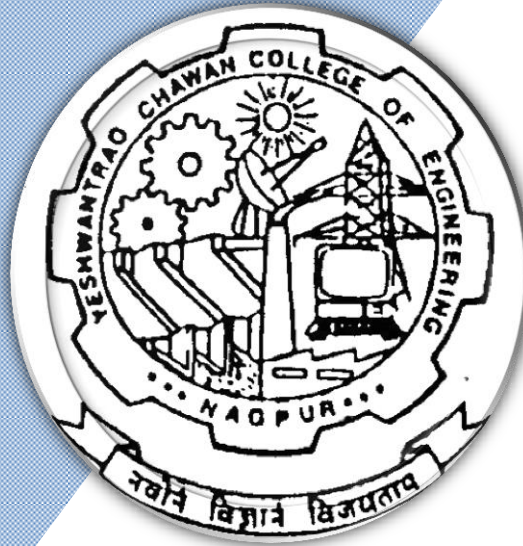
Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

(Accredited 'A' Grade by NAAC with a score of 3.25)

Hingna Road, Wanadongri, Nagpur - 441 110



Bachelor of Engineering **Civil Engineering** **Honors in Construction Technology** **SoE & Syllabus 2020**



Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering
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B.E. SCHEME OF EXAMINATION 2020-21

Civil Engineering

Honors in Construction Technology

SN	Sem	Type	Sub. Code	Subject	T/P	Contact Hours				Credits	% Weightage			ESE Duration Hours
						L	T	P	Hrs		MSEs*	TA**	ESE	
1	V	PC	CV2501	Advanced Techniques In Concrete Construction	T	3	0	0	3	3	30	30	40	3
2	V	PC	CV2502	Lab: Construction Materials Laboratory 1	P	0	0	2	2	1		60	40	
3	VI	PC	CV2511	Advanced Construction Materials	T	3	0	0	3	3	30	30	40	3
4	VI	PC	CV2512	Pre Engineering Construction And Technology	T	3	0	0	3	3	30	30	40	3
5	VI	PC	CV2513	Lab: Construction Materials Laboratory 2	P	0	0	2	2	1		60	40	
6	VII	PC	CV2521	Sustainable Construction Engineering	T	3	0	0	3	3	30	30	40	3
7	VII	PC	CV2522	Construction Planning And Control	T	3	0	0	3	3	30	30	40	3
8	VII	PC	CV2523	Lab: Soft Computing In Construction Management	P	0	0	2	2	1		60	40	
TOTAL						15	0	6	21	18				

MSEs* = Three MSEs of 15 Marks each will conducted and marks of better 2 of these 3 MSEs will be considered for Continuous Assessment

TA ** = for Theory : 20 marks on lecture quizzes, 8 marks on assignments, 2 marks on class performance

TA = for Practical : MSPA will be 15 marks each**

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Department of Civil Engineering B.E Honors in Construction Technology SoE and Syllabus

SoE No.
CVH-201

V Semester

CV2501 : ADVANCED TECHNIQUES IN CONCRETE CONSTRUCTION

COURSE OBJECTIVES	COURSE OUTCOMES
<ol style="list-style-type: none">1. Understand To develop systematic knowledge of concrete constituents2. To familiarize with the fundamentals of concrete3. Principals involved for high performance concrete4. To understand the basic concepts of special concretes5. To introduce fundamentals of concreting methods	<ol style="list-style-type: none">1. An ability to understand the properties of the constituent materials of concrete.2. An ability to understand the properties of fresh and hardened concrete and tests to determine these properties.3. An ability to design concrete mixes and apply statistical quality control techniques4. An ability to understand importance of Non-destructive testing and various equipment used.5. An ability to understand the durability of concrete.
Mapped Program Outcomes : 1,3,7,11,12	

UNIT-1 : Features of Recent Advances in Concrete, Types of Concrete to be dealt; Terminologies, Ingredients, Properties of Fresh & Hardened concrete, related tests, Production and use of concrete.	[07 Hrs.]
UNIT-2 : High Performance Concretes: Definition & Introduction, Classification, general properties, Advantages, Disadvantages, Applications, and Description of types. Guidelines for Mix design and use of following concretes: Light weight concrete, High strength concrete, Ultra-high strength concrete.	[06 Hrs.]
UNIT-3 : Concrete mix design, Basic considerations and choice a mix proportions, various methods of mix designs including IS Code method. Quality control and quality assurance of concrete, Acceptance criteria. High workability concrete/Self compacting concrete, Fiber reinforced concrete, Polymer-concrete composites.	[07 Hrs.]
UNIT-4 : Special Concretes: Definition & Introduction, General properties, Advantages, Disadvantages, Applications, Concreting practices, Guidelines for Mix design and use of following concretes: High density concrete, Shrinkage compensating concrete, Mass concrete, Roller compacted concrete.	[06 Hrs.]
UNIT-5 : Durability of Concrete: Definitions, Deterioration processes– Physical, Chemical, Environmental & Biological; Measures for ensuring durability, Corrosion of reinforcing steel, protective measures.	[07 Hrs.]
UNIT-6 : Testing and Quality Control of Concrete: Classification of test methods, In-situ, Non-Destructive & Partially–Destructive tests for fresh concrete, hardened concrete and durability of concrete. Problems on the in-situ testing results and compared with Laboratory results.	[06 Hrs.]

Text Books :

1. Gambhir M.L: Concrete Technology Tata McGraw Hill (Second Edition) 1995.
2. M.S. Shetty, Concrete Technology S.Chand& Company New Delhi 2005.

Reference Books :

1. Gupta.B.L.,Amit Gupta, "Concrete Technology", Jain Book Agency, 2010.
2. Neville, A.M., "Properties of Concrete", Prentice Hall, 1995, London.
3. Santhakumar.A.R. ; "Concrete Technology",Oxford University Press,2007.
4. Mehta .P.K., and Paulo J.M. Monteiro, "Concrete- Microstructure, Properties and Materials"-(Indian Ed.,Indian Concrete institute), McGraw Hill.

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SoE No.
CVH-201

V Semester

CV2502 : LAB - CONSTRUCTION MATERIALS LABORATORY-I

COURSE OBJECTIVE	COURSE OUTCOME
<ol style="list-style-type: none">To understand the properties of various grades cement.To study the behavior of concrete at its fresh and hardened stateTo study about the concrete design mixTo know about the procedures in concretingTo understand special concrete and their use	<ol style="list-style-type: none">An ability to conduct different tests on cement.An ability to assess the different properties of coarse and fine aggregate.An ability to conduct different workability tests on fresh concrete and various tests on hardened concrete.An ability to understand working of various Non-destructive testing equipment.

Mapped Program Outcomes : 1,4,5,8,11

Any Five practical from the following are required to be conducted:

- Study of IS code related to mix design.
- Determine Compressive strength of High grade concrete by using different admixture.
- Study and performance on Rebound Hammer.
- Study and performance on Ultrasonic Pulse Velocity.
- Study and performance on Profometer.
- Study and performance on Crack scope.
- Study of Self Compacting Concrete.

Text Books :

- P.C. Vergese, Limit State Design of Reinforced Concrete, Prentice Hall Publishers, 2nd edition, 2008
- Shah and Karve, Reinforced Concrete Structures, Structures Publishers, Pune, 5th edition, 2015.
- Sinha S.N, Reinforced Concrete Design, Tata McGraw Hill Publishing Company Limited, New Delhi, 2007
- Ashok K. Jain, Reinforced Concrete – Limit State Design, Nemchand and Brothers, 7th edition, 2012

Reference Books :

- P.C. Varghese, Advanced Design of Structures, Prentice Hall Publishers, 2009
- Punmia B.C., Jain A.K., Jain A.K, Reinforced Concrete Structures (Vol-I), Laxmi Publications Pvt Ltd, New Delhi, 2007
- N. KrishanaRaju, Prestressed Concrete, Tata McGraw Hill Publishing Company Limited, New Delhi, 5th edition 2012

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SoE No.
CVH-201

VI Semester

CV2511 : ADVANCED CONSTRUCTION MATERIALS

COURSE OBJECTIVES	COURSE OUTCOMES
Student will be able to : 1. Study different construction materials. 2. Understand the use of waste product. 3. Various maintenance works in Civil Engineering.	Student will be able to : 1. Achieve the knowledge of different construction materials. 2. Know the use of waste product and industrial by product. 3. Explain maintenance and repair techniques for improve condition of structures

Mapped Program Outcomes : 1, 5,7,9,12

UNIT-1 : Construction materials :- Classification of construction materials, Selection criteria for construction materials, Green building materials, waste products, Reuse and recycling.	[07 Hrs.]
UNIT-2 : Ceramic materials :- Classification, glass wool, thermal and electrical properties, fire resistant materials, uses and applications.	[06 Hrs.]
UNIT-3 : Polymeric materials :- Rubber and plastics, Polymers in civil engineering polymers, types of fibers, fiber reinforced plastic in sandwich panels.	[07 Hrs.]
UNIT-4 : Introduction to : - Waterproofing materials and compounds, flooring materials, required materials.	[06 Hrs.]
UNIT-5 : Use of waste product and industrial by product:-Fly ash, silica, GGBS and other mineral products, Geotextile and Geo-synthetics applications in civil engineering.	[07 Hrs.]
UNIT-6 : Introduction to maintenance work, Classification, Techniques, special methods, materials.	[06 Hrs.]

Text Books :

1. Gambhir.M.L., "Concrete Technology", McGraw Hill Education, 2006.
2. Gupta.B.L., Amit Gupta, "Concrete Technology", Jain Book Agency, 2010.
3. Neville, A.M., "Properties of Concrete", Prentice Hall, 1995, London.

Reference Books :

1. Shetty M.S., "Concrete Technology", S.Chand and Company Ltd. Delhi, 2003.
2. Rangawala S.C. Engineering Materials Chortor Publications 1991.
3. S.K. Duggal Building Materials, New Age International Publications 2006.

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SoE No.
CVH-201

VI Semester

CV2512 : PRE ENGINEERING CONSTRUCTION AND TECHNOLOGY

COURSE OBJECTIVES	COURSE OUTCOMES
<ol style="list-style-type: none"> To introduce the Concepts of prefabrication To identify and design suitable pre-engineered structure To identify the stresses in pre-engineered pre stressed / precast components of the structure 	<p>Students are able</p> <ol style="list-style-type: none"> To understand the use of prefabrication Technology To design the pre-engineered structures and execute the same for a given structure To know the different types of stresses acting on the structures while lifting the pre stressed /precast components of the prefabricated structures and type of equipment required to (eliminate/resist) support such stresses.
Mapped Program Outcomes : 1,2,3,4,12 PSO : i	

UNIT-1 : Introduction to prefabrication, Types of prefabrication, materials used for prefabrication, site and plant prefabrication, Economy of prefabrication (concrete and structural steel)	[06 Hrs.]
UNIT-2 : Planning for Components of prefabricated structures, Disuniting of structures, Design of simple rectangular beams and I beams, Handling and erection stresses, Elimination of erection stresses.	[07 Hrs.]
UNIT-3 : Roof and floor panels, ribbed floor panels, wall panels, footings, Joints for different structural Connections, Effective sealing of joints for water proofing, Provisions for non-structural fastenings, Expansion joints in pre-cast construction (concrete). Designing and detailing of precast unit for factory structures, Purlins, Principal rafters, roof trusses (structural steel)	[06 Hrs.]
UNIT-4 : Choice of production setup, Manufacturing methods, Stationary and mobile production, Planning of production setup, Storage of precast elements, Dimensional tolerances, Acceleration of concrete hardening. Equipment's for hoisting and erection, Techniques for erection of different types of members like Beams, Slabs, Wall panels and Columns , Vacuum lifting pads.	[07 Hrs.]
UNIT-5 : Precast sandwich Panels, Prestressed concrete solid flat slabs, Hollow core slab/panels, Prestressed concrete, and Precast segmental Box Girders, Specifications and Seismic considerations.	[07 Hrs.]
UNIT-6 : Introduction – Advantages - Pre Engineered Buildings Vs Conventional Steel Buildings, Design of Pre Engineered Buildings (PEB), load combinations to be considered for Foundation design , Applications	[06 Hrs.]

Reference Books :

- L. Mokka, "Prefabricated Concrete for Industrial and Public Structures," Publishing House of the Hungarian Academy of Sciences, Budapest, 2007.
- B. Lewicki, "Building with Large Prefabricates", Elsevier Publishing Company, Amsterdam, London, New York, 1998.
- Structural Design Manual, Precast Concrete Connection Details, Society for the Studies in the use of Precast Concrete, Netherland Betor Verlag, 2009
- T. Koncz, "Manual of Precast Concrete Construction", Vol. I, II, III & IV, Berlin, 1971.

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SoE No.
CVH-201

VI Semester

CV2513 : LAB - CONSTRUCTION MATERIALS LABORATORY-II

COURSE OBJECTIVE	COURSE OUTCOME
1. To learn the principles and procedures of testing of highway materials	1. Student knows the techniques to characterize various pavement materials through relevant tests.
Mapped Program Outcomes : 1,2,12	

PRACTICALS

Minimum 8 practical's out of following will be performed

I. TEST ON AGGREGATES

1. Specific Gravity
2. Water Absorption of Aggregates
3. Determination of elongation and flakiness index
4. Determination of impact value of coarse aggregate
5. Determination of aggregate crushing value of coarse aggregate
6. Los Angeles Abrasion Test

II. TEST ON BITUMEN

1. Specific Gravity of Bitumen
2. Penetration Test
3. Viscosity Test
4. Softening Point Test
5. Ductility Test

III. TESTS ON BITUMINOUS MIXES

1. Determination of Binder Content
2. Marshall Stability

Text Books/Reference Books

1. Highway Materials and Pavement Testing, Nem Chand and Bros., Roorkee, Revised Fifth Edition, 2009
2. Methods for testing tar and bituminous materials, IS 1201-1978 to IS 1220- 1978, Bureau of Indian Standards
3. Methods of test for aggregates, IS 2386 – 1978, Bureau of Indian Standards
4. Mix Design Methods Asphalt Institute Manual Series No. 2, Sixth Edition, 1997, Lexington, KY, USA.
5. IS383 - 1970: Indian Standard specification for coarse and fine aggregate from natural Sources for concrete, 2011
6. IS1542-1992: Indian standard specification for sand for plaster, 2009 7. IS 10262-2009: Indian Standard Concrete Mix Proportioning –Guidelines, 2009
7. IS 4031 (Part 1) – 1996 – Indian Standard Method for determination of fineness by dry sieving.
8. IS 2386 (Part 1 to Part 6) – 1963 – Indian Standard methods for test for aggregate for concrete
9. IS 383– 1970 Indian Standard specification for coarse and fine aggregates from natural sources for concrete.

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SoE No.
CVH-201

VII Semester CV2521 : SUSTAINABLE CONSTRUCTION ENGINEERING

COURSE OBJECTIVES	COURSE OUTCOMES
<ol style="list-style-type: none">To get a comprehensive overview of materials used for sustainable buildings.To understand the effects of technology on materials and the way they are used with respect to sustainability	<p>The students will be able to understand;</p> <ol style="list-style-type: none">A comprehensive overview of materials used for sustainable buildings.Create new engineering materials to improve the performance in construction practicesDevelop the technological innovations needed to safeguard, improve, and economize infrastructure and society.
Mapped Program Outcomes : 1,2,12	

UNIT-1 : Introduction To Sustainable Building Materials- qualities, use, examples - Natural building materials.	[07 Hrs.]
UNIT-2 : Fundamentals of Sustainable Construction Engineering- Sustainability and resources, need, present practices at national and international level, The Sustainability Quadrant- challenges & Issues, Government initiatives.	[06 Hrs.]
UNIT-3 : Construction Product, Process Design and Development- Sustainability of construction resources, process modifications, product performance evaluation.	[07 Hrs.]
UNIT-4 : Sustainability assessment using standard approaches- LEED/GRIHA rating evaluation process. Socio -economic feasibility of sustainable construction products.	[06 Hrs.]
UNIT-5 : Innovative & customized sustainable product design based on social constraints, tools & aids available for sustainable construction products.	[07 Hrs.]
UNIT-6 : Life Cycle Assessment and Costing-Variou aspects related to construction cost, present value analysis, life cycle stages.	[06 Hrs.]

Text Books :

- Sustainable Engineering Practice ASCE Publication 2010.
- Hagger Sustainable Industrial Design and Waste Management, Techniz Book 2010.
- Helmut Rechberger, Practical handbook of Material Flow Analysis, Taylor & Francis. 2010.
- Michael Z. Hou, Heping Xie, Jeoungseok Yoon Underground Storage of CO₂ and Energy Taylor & Francis, 2010.
- LEED for India: Reference Guide, 2011.
- Sustainable Building - Design Manual Pvt. 1 & 2, The Energy and Resources Institute, TERI, 2004
- Ross Spiegel.G, Green Building Materials A Guide to Product Selection and Specification, 3rd Edition by, John Wiley & Sons, 2010
- Jagadish K.S. Alternative Building Materials and Technologies, New age International Pvt. Ltd Publishers, 2008.
- Traci Rose Rider, Stacy Glass, Jessica McNaughton, Understanding Green Building Materials, W.W. Norton and Company, 2011.

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SoE No.
CVH-201

VII Semester CV2522 : CONSTRUCTION PLANNING AND CONTROL

COURSE OBJECTIVES	COURSE OUTCOMES
<ol style="list-style-type: none">To develop concepts related with project management system which involves different stages of construction and to learn basic laws used in construction industry.To execute various networking techniques (CPM and PERT) of project controlling in the context of various construction aspects.Development of projects by managing resources management and material management.Exposure to information system, MIS and reports and managing documents.	<ol style="list-style-type: none">Understand the concepts of project management and organizing and planning and different laws.Evaluate the development of network technique of major projects.Develop knowledge about material management techniques carried out in construction industry.Practical exposure to various major construction information system and MIS.
Mapped Program Outcomes : 1,4,8,9,10,11,12	

UNIT-1 : Understanding Project Management, Project manager, Organization structures, Stages of Construction, organizing and staffing the project office and team Construction Planning.	[06 Hrs.]
UNIT-2 : Construction Labour, Payment of wages Act, Workmen's Compensation Act, Minimum Wages Act.	[07 Hrs.]
UNIT-3 : Project planning, milestone schedules, WBS, Network techniques, CPM, PERT and Prima Vera, Line of Balancing Techniques, Critical Chain Method.	[06 Hrs.]
UNIT-4 : Resources leveling and smoothing. Management: Introduction for Management, History of Management theory, Leadership.	[07 Hrs.]
UNIT-5 : Material management- purchases management and inventory control, ABC analysis.	[07 Hrs.]
UNIT-6 : Project Management Information system, MIS reporting, Daily, Weekly and monthly reporting, Actual vs. Planned reporting, Planning & Cost control document, Quality and safety documents at site.	[06 Hrs.]

Text Books :

- Shrivastava U.K., Construction Planning and management, Galgotia publication.
- Khanna O.P, Industrial Engineering & Management, Dhanpat Rai & Sons, New Delhi, 1992.
- Verma Mahesh, Equipment Management, S.Chand & Sons
- Punmia B.C.& Khandelwal K.K., Project Planning & Control with PERT&CPM, Laxmi Publications, New Delhi, 1990.
- BL Gupta, Amit Gupta, Construction Management & Machinery, Standard Publishers Distributors, 2010.

Reference Books :

- Peurifoy, M.H, Construction Management, McGraw Hill, New York.
- Srinath L, CPM & PERT, Affiliated East-West Press Pvt. Ltd., New Delhi.
- P.S.Gahlot & B.M.Dhir, Construction Planning and Management, New Age International.
- Chaudhary Roy, Project Management, Tata McGraw Hill, New Delhi.

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SoE No.
CVH-201

VII Semester

CV2523 : LAB - SOFT COMPUTING IN CONSTRUCTION MANAGEMENT

COURSE OBJECTIVES	COURSE OUTCOMES
<ol style="list-style-type: none">To Learn use of various software related to construction managementTo execute various networking techniques (CPM and PERT) of project controlling in the context of various construction aspects.To prepare a Construction programme for Town ship, Road Project, Bridge project etc. with using construction management softwares (Microsoft Project and Prima Vera Software)	<p>On completion of this course students are able to</p> <ol style="list-style-type: none">Understand Civil Engineering drawing, its specification, construction materialsdevelop extensive databases of information to be used for construction management purposes using various computing toolsPrepare quantity surveying details, capital budgeting of a construction project, resource allocation, and scheduling in excel sheet.Use of construction management software (MS-PROJECT, PRIMAVERA),

Mapped Program Outcomes : 1,2,4,8,9,10,11,12

- Technical Report on use of Civil Engineering drawing, understanding its specification and study of related codes and bye laws (01 Assignment by considering a case study of any Civil Engineering Structure)
- Technical Report on study of properties and cost estimation of different construction materials. (01 Assignment by considering a case study considered in Practical 1)
- Preparation of spreadsheet for Quantity Takeoff, rate analysis (01 Assignment by considering a case study considered in Practical 1)
- Preparation of project planning and scheduling- Critical path method (CPM) – Project Evaluation Review Techniques (PERT) – Advanced planning and scheduling concepts using excel spreadsheet. (01 Assignment by considering a case study considered in Practical 1)
- Preparation of project planning and scheduling- Critical path method (CPM) – Project Evaluation Review Techniques (PERT) – Advanced planning and scheduling concepts using excel spreadsheet. (01 Assignment by considering a case study considered in Practical 1).
- Use of Project management software such as Primavera software, Microsoft project- Preparation of project and feed data into the software for various projects

Text Books :

- Shrivastava U.K., Construction Planning and management, Galgotia publication.
- Khanna O.P, Industrial Engineering & Management, Dhanpat Rai & Sons, New Delhi, 1992.
- Verma Mahesh, Equipment Management, S. Chand & Sons
- Punmia B.C.& Khandelwal K.K., Project Planning & Control with PERT&CPM, Laxmi Publications, New Delhi, 1990.
- BL Gupta, Amit Gupta, Construction Management & Machinery, Standard Publishers Distributors, 2010.

Reference Books :

- Project Management using Primavera, Eastwood Harris Publications.
- M.S. Project Microsoft Press.

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