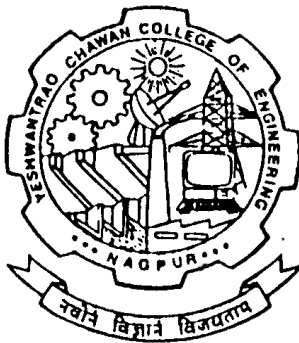


Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
Hingna Road, Wanadongri, Nagpur - 441 110



Post Graduation (M. Tech.)

SoE & Syllabus 2014

4 Semester

Department of Civil Engineering

Structural Engineering

Update on May 2017



Nagar Yuwak Shikshan Sanstha's

Yeshwantrao Chavan College of Engineering

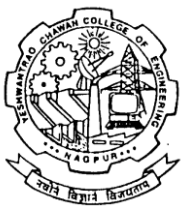
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M. Tech. SCHEME OF EXAMINATION 2014

Department of Civil Engineering

Structural Engineering

Sl. No.	Course Code	Course Title	Contact Hours				Credits	% Weightage				ESE Duration Hrs.
			L	T	P	Total Contact Hrs.		MSE- I	MSE- II	TA	ESE	
I SEMESTER												
1	CV1901	Numerical Methods	3	0	0	3	3	15	15	10	60	3
2	CV1902	Theory of Elasticity and Elastic Stability	3	0	0	3	3	15	15	10	60	3
3	CV1903	Structural Dynamics	3	0	0	3	3	15	15	10	60	3
4	CV1904	Lab: Structural Dynamics	0	0	2	2	1	40			60	
5	CV1905	Matrix Analysis of Structures	3	0	0	3	3	15	15	10	60	3
6	CV1906	Lab: Matrix Analysis of Structures	0	0	2	2	1	40			60	
7	CV1907	Design of Substructures	3	0	0	3	3	15	15	10	60	3
8	CV1908	Research Practice	0	0	2	2	1	100				
Total			15	0	6	21	18					
II SEMESTER												
1	CV1911	Finite Element Method	3	0	0	3	3	15	15	10	60	3
2	CV1912	Theory of Plates and Shells	3	0	0	3	3	15	15	10	60	3
3	CV1913	Earthquake and wind effects on Structures	3	0	0	3	3	15	15	10	60	3
4	Professional Elective-I		3	0	0	3	3	15	15	10	60	3
	CV1914	Advanced Concrete Structures										
	CV1915	Prestressed Concrete										
	CV1916	Composite Structures										
5	Professional Elective-II		3	0	0	3	3	15	15	10	60	3
	CV1917	Advanced Steel Structures										
	CV1918	New Engineering Materials										
	CV1919	Smart Structures and Applications										
6	CV1920	Lab: Steel Design Studio	0	0	2	2	1	40			60	
7	CV1921	Lab: RCC Design Studio	0	0	2	2	1	40			60	
8	CV1922	Seminar	0	0	2	2	1	100				
Total			15	0	6	21	18					
III SEMESTER												
1	Professional Elective-III		3	0	0	3	3	15	15	10	60	3
	CV1923	Tall Building										
	CV1924	Design of Environmental Structures										
	CV1925	Bridge Engineering										
2	Professional Elective-IV		3	0	0	3	3	15	15	10	60	3
	CV1926	Plastic Analysis and Design of Structures										
	CV1927	Seismic Analysis and Design of Structures										
3	CV1928	Design of Industrial Structures										
3	CV1929	Project Phase-I	0	0	16	16	8	100				
Total			6	0	16	22	14					
IV SEMESTER												
1	CV1931	Project Phase- II	0	0	24	24	12	40			60	
Total			0	0	24	24	12					
Grand Total of Credits							62					
Chairperson			Date of Release			May 2014		Applicable for				
Dean (Acad. Matt.)			Version			1		AY 2014-15 Onwards				



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M. Tech. SoE and Syllabus 2014

Structural Engineering

IV SEMSTER

CV1931	Project Phase II	L=0	T=0	P=20	CREDITS = 10
EVALUATION SCHEME					
MSE – I	MSE – II	CA	ESE	TOTAL	ESE DURATION
-----	-----	40	60	100	-----

COURSE OBJECTIVES	COURSE OUTCOMES
<ul style="list-style-type: none"> To provide the students the academic environment to carry out literature survey of advanced topics in structural engineering To provide the students the understanding of real world structural engineering problems and their solution. To motivate the students to use the modern tools and software's To provide the students the understanding of various aspects like effective communication skills, working independently and in a team and the importance of lifelong learning etc. to carry out project. 	<ul style="list-style-type: none"> An ability to solve real world structural engineering problems. An ability to understand the importance of lifelong learning and the use of modern tools. An ability to understand the importance of lifelong learning and the use of modern tools An ability to work independently and in a team for effective communication.
PO mapped: a, b, c, d, e, f, g	

The Project Phase – II shall consist of detailed study of a work that the student has executed in continuation with report submitted by the student in the Project Phase – I and should involve scientific research, design, collection and analysis of data, determining solutions and must preferably bring out the individuals contribution.

The work shall be continuously evaluated as per the norms/ guidelines set up by the B.O.S. for its assessment of 40 marks.

End Semester Evaluation of Project Phase –II shall consist of submission of dissertation in a prescribed format. The student shall present the entire work on Dissertation, followed by viva-voce which will be assessed by panel of examiners.

Chairperson		Date of Release	May 2017	Applicable for AY 2017-18 Onwards
Dean (Acad. Matters)		Version	1.01	