



RAJASTHAN TECHNICAL UNIVERSITY, KOTA

Teaching & Examination Scheme B.Tech. : Civil Engineering 2nd Year - IV Semester

THEORY											
SN	Categor ory	Course		Contact hrs/week			Marks				Cr
		Code	Title	L	T	P	Exm Hrs	IA	ETE	Total	
1	BSC	4CE2-01	Advance Engineering Mathematics -II	2	0	0	2	20	80	100	2
2	HSMC	4CE1-03/ 4CE1-02	Managerial Economics & Financial Accounting/ Technical Communication	2	0	0	2	20	80	100	2
3	ESC	4CE3-04	Basic Electronics for Civil Engineering Applications	2	0	0	2	20	80	100	2
4	PCC	4CE4-05	Strength of Materials	3	0	0	3	30	120	150	3
5		4CE4-06	Hydraulics Engineering	3	0	0	3	30	120	150	3
6		4CE4-07	Building Planning	2	0	0	2	20	80	100	2
7		4CE4-08	Concrete Technology	3	0	0	3	30	120	150	3
		Sub Total		17	0	0		170	680	850	17
PRACTICAL & SESSIONAL											
8	PCC	4CE4-21	Material Testing Lab	0	0	2		30	20	50	1
9		4CE4-22	Hydraulics Engineering Lab	0	0	2		30	20	50	1
10		4CE4-23	Building Drawing	0	0	3		45	30	75	1.5
11		4CE4-24	Advanced Surveying Lab	0	0	2		30	20	50	1
12		4CE4-25	Concrete Lab	0	0	3		45	30	75	1.5
13	SODE CA	4CE8-60	Social Outreach, Discipline & Extra Curricular Activities	0	0	0		0	25	25	0.5
		Sub- Total		0	0	12		180	145	325	6.5
		TOTAL OF IV SEMEESTER		17	0	12		350	825	1175	23.5

L: Lecture, **T:** Tutorial, **P:** Practical, **Cr:** Credits

ETE: End Term Exam, **IA:** Internal Assessment

Office of Dean Academic Affairs
Rajasthan Technical University, Kota



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SYLLABUS

II Year-IV Semester: B.Tech. (Civil Engineering)

4CE2-01: ADVANCE ENGINEERING MATHEMATICS-II

Credit: 2
2L+0T+0P

Max. Marks: 100 (IA:20, ETE:80)
End Term Exam: 2 Hours

SN	CONTENTS	Hrs.
1	Introduction: Objective, scope and outcome of the course.	1
2	Probability: Basic concepts of probability, conditional probability, Baye's theorem. Random variable: Discrete and Continuous random variables, Joint distribution, Marginal distribution, Probability distribution function, Conditional distribution. Mathematical Expectations: Moments, Moment Generating Functions, variance and correlation coefficients, Chebyshev's Inequality, Skewness and Kurtosis. Binomial, Poisson and Normal distribution and their properties.	13
3	Applied Statistics: Basic concept of variance, Correlation and regression – Rank correlation. Curve fitting by the method of least squares- fitting of straight lines, second degree parabolas and more general curves. Test of significance: Large sample test for single proportion, difference of proportions, single mean, difference of means, and difference of standard deviations.	12
Total		26

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