

SCHEDULE OF THE COURSE

<i>Date</i>	<i>0930 – 1130</i>	<i>1130 – 1330</i>	<i>1330 – 1400</i>	<i>1400 – 1600</i>	<i>1600 - 1800</i>
Monday <i>30/7/2006</i>	Inauguration & Registration	Lecture 1-2 RS	Lunch Break	Lecture 3 SG	Lecture 4 (<i>T</i>) RSJ
Tuesday <i>4/07/2006</i>	Lecture 5 PB	Lecture 6 PB		Lecture 7 SG	Lecture 8 (<i>T</i>) RSJ
Wednesday <i>5/07/2006</i>	Lecture 9 SG	Lecture 10 SG		Lecture 11 RSJ	Lecture 12 (<i>T</i>) RSJ
Thursday <i>6/07/2006</i>	Lecture 13 SG	Lecture 14 SG		Lecture 15 RSJ	Lecture 16 (<i>T</i>) RSJ
Friday <i>7/07/2006</i>	Lecture 17 YMD	Lecture 18 YMD		Lecture 19 (<i>E</i>) RSJ/SG	Lecture 20 (<i>E</i>) RSJ/SG
Monday <i>10/07/2006</i>	Lecture 21 YMD	Lecture 22 YMD		Lecture 23 SG	Lecture 24 (<i>T</i>) RSJ
Tuesday <i>11/07/2006</i>	Lecture 25 PB	Lecture 26 PB		Lecture 27 SG	Lecture 28 (<i>T</i>) RSJ
Wednesday <i>12/07/2006</i>	Lecture 29 RS	Lecture 30 RS		Lecture 31 AG	Lecture 32 AG
Thursday <i>13/07/2006</i>	Lecture 33 AG	Lecture 34 RS		Lecture 35 PB	Lecture 36 SG
Friday <i>14/07/2006</i>	E X A M	Lecture 37-38 RSJ		Lecture 39-40 RSJ	Concluding Session

PB – Prof. P Banerji : AG – Prof. Alok Goyal : RS – Prof. Ravi Sinha: YMD – Prof. Y.M. Desai : RSJ – Prof. R S Jangid : SG – Prof. Siddhartha Ghosh : (T) – Tutorial : (E) – Experimental studies

<i>Lecture</i>	<i>Instructor</i>	<i>Topic</i>
01-02	RS	Introduction, Equations of Motion (Undamped) Civil and Mechanical Systems, Simple Harmonic Motions
03	SG	Free and Harmonic Response of Undamped SDOF System
04	RSJ	Tutorial – I
05	PB	Damped System; Free Vibration Response
06	PB	Harmonic Response of Viscously Damped System
07	SG	Measurement of Damping and Natural Frequencies
08	RSJ	Tutorial – II
09	SG	Transmissibility and Vibration Isolation; Measuring Instruments
10	SG	Response to Periodic Loading, Fourier Series, Fourier Transforms
11	RSJ	Coulomb Friction damped system
12	RSJ	Tutorial – III
13	SG	Response to Arbitrary Excitations, Duhamel Integrals
14	SG	Response to Step and Pulse Loading etc.
15	RSJ	Numerical Methods (Newmark's Beta, FFT)
16	RSJ	Tutorial – IV
17	YMD	Generalized SDOF system, Virtual Work Principle
18	YMD	Generalized SDOF system, Virtual Work Principle
19	RSJ/SG	Laboratory visit
20	RSJ/SG	Laboratory visit
21	YMD	Multi-Degree-of-Freedom-Systems (EOMs)
22	YMD	Free Vibration of Multi-Degree-of-Freedom-System
23	SG	Vibration Absorber
24	RSJ	Tutorial – V
25	PB	Evaluation of mode-shapes & frequencies
26	PB	Modal Superposition Method
27	SG	Determination of damping matrix
28	RSJ	Tutorial – VI
29	RS	Response Spectrum Method
30	RS	Response Spectrum Method
31	AG	IS Codal Provisions
32	AG	IS Codal Provisions
33	AG	IS Codal Provisions/ Special topic – I (Performance based design)
34	RS	Special topic – II (Seismic risk and disaster management)
35	PB	Special topic – III (Life-line structures)
36	SG	Special topic – IV (Reliability based design)
37-38	RSJ	Special Topic V (Seismic isolation)
39-40	RSJ	Special Topic VI (Seismic isolation)