

GOVERNMENT POLYTECHNIC COLLEGE, KOTA (RAJ.)

SYLLABUS BREAK-UP (SESSION 2015-16)

SUBJECT CODE : **CE204**

SUBJECT NAME : **Surveying lab**

FACULTY NAME : **V. S. SHARMA**

DESIGNATION : **PRINCIPAL**

TOPIC	LECTURE / PRACTICAL CLASSES REQUIRED TO COVER TOPIC	MONTHS IN WHICH THE TOPIC WILL BE COVERED	ACTUAL DATE OF COVERING OF THE TOPIC	REASON FOR NOT COVERING THE TOPIC IN DUE TIME	E-CONTENTS PROVIDED TO STUDENTS RELATED TO TOPIC
Study of 1.1 Different types of chains and tapes 1.2 Cross staff 1.3 Optical square 1.4 Line ranger	2	Aug-15			
Use of Chains : 2.1 Folding and unfolding 2.2 Ranging and chaining on plane and sloping surface 2.3 Setting right angles. 2.4 Setting parallel lines. 2.5 Taking offsets.	2	Aug-15			
Chain surveying of small areas	4	Aug-Sep15			
Study of prismatic compass	1	Sep-15			
Study of surveyor compass	1	Sep-15			
Measurements of bearing of lines	4	SEP-OCT 15			
Transverse by compass and adjustment of error	4	Oct-15			
Study of the component parts and handling of 8.1 Dumpy level 8.2 Tilting level 8.3 Staves	2	Oct-15			

Temporary adjustments of a dumpy level and a tilting level	2	Oct-15			
Use of dumpy level and tilting level in differential levelling and levelling for cross section and longitudinal section. Recording in level book and plotting.	6	Nov-15			
Study of Automatic level.	1	Nov-15			
Study and use of plane table and its accessories e.g. stand, table, clamping arrangement, sight vane, through compass, plumbing fork, plumb bob, spirit level etc.	2	Dec-15			
A Methods of plane tabling 13.1 Radiation 13.2 Intersection 13.3 Traversing 13.4 Resection	4	Dec 15-Jan16			
Two and three point problems	6	Jan-Feb 16			
Preparation of a plan on area by plane table survey.	4	Feb-16			
Plotting spot levels of a given area by the grid method and interpolation of contours.	2	Feb-16			
Preparations of a contoured plan of an uneven area with the help a level and a plane table.	4	Mar-16			
Study of 18.1 Hand and abney level 18.2 Clinometer 18.3 Planimeter 18.4 Pantagraph 18.5 Sextant 18.6 Cylon ghat tracer	4	Mar-16			
Total	55				