TRIBHUWAN UNIVERSITY INSTITUTE OF ENGINEERING PULCHOWK CAMPUS

DEPARTMENT OF CIVIL ENGINEERING

SURVEY INSTRUCTION COMMITTEE BEARINGS AND INDEPENDENT CO-ORDINATES CALCULATION OF STATIONS

Independent Co-ordinates Independent Co-ordinates Observed Angle Forward Bearing Backward Bearing Internal **Corrected Bearing** Departure Line Latitude (Forward station) (Backward station) Angle Northing Length d d d m **Easting** Northing **Easting** m m 62.501 348 -12.156 61.307 1000 A-B 47 166 47 11 12 1000 987.844 1061.307 CAB 87 31 49.116 261 81 15 15 19 -48.545 -7.467 1000 1000 951.455 992.533 A-C 15 81 87 DAB A-D 42.836 14 33 256 33 14 41.607 10.187 1000 1041.607 1000 1010.187 ABC 39 В-С 77.808 207 52 59 52 59 52 59 -36.388 -68.775 987.844 1061.307 951.455 992.533 27 27 35 42 ABD B-D 74.188 133 33 22 313 33 22 46 26 38 53.764 -51.120 987.844 1061.307 1041.607 1010.187 CBE 50 20 50 В-Е 64.273 258 13 49 78 13 49 78 13 49 -62.922 -13.110 987.844 1061.307 924.921 1048.197 53 ECB 992.533 924.921 С-Е 61.665 334 30 50 154 30 50 25 29 10 -26.534 55.664 951.455 1048.197 66 FCE 36 992.533 904.393 47.082 36 36 -47.062 -1.375 951.455 991.158 C-F 268 19 88 19 88 19 CEF 45 48 60.621 199 47 38 19 47 38 19 47 38 -20.528 -57.039 924.921 1048.197 904.393 991.158 E-F 26 FEG 47 42 226 35 -42.914 62.445 35 20 35 20 20 -45.362 924.921 879.559 46 46 1048.197 1005.283 E-G GFE 80 F-G 28.570 299 37 48 119 37 48 60 22 12 -24.834 14.125 904.393 991.158 879.559 1005.283