

LIST OF FIGURES

Figure No.	Title	Page No.
1.1	Anterior aspect of knee Joint	4
1.2	Osseous structures of knee joint- patella, distal end of femur and proximal end of tibia	9
1.3	Extra articular structures of knee joint; anterior aspect of knee and cross-section of knee joint	13
1.4	Intra articular structures of knee joint	14
1.5	Capsular attachment of knee joint	16
1.6	Patellar ligament of knee joint	19
1.7	(a) Menisci of knee joint	23
	(b) Interrelationship of menisci in intercondylar area of tibia	23
1.8	Image showing distribution of weight with presence of menisci	24
1.9	Cruciate ligaments of knee joint	27
1.10	Ligaments of posterior knee joint capsule	27
1.11	Soft tissues surroundings to the knee joint: popliteal fossa: posterior aspect of knee joint	29
1.12	Bursa related to knee joint	31
1.13	Relations of knee joint	32
1.14	Blood supply of knee joint	34
1.15	Nerve supply of knee joint	35
1.16	ROM of flexion and extension of knee joint	36
1.17	Schematic illustration of pure rolling of the femoral condyles on a fixed tibia, a schematic representation of rolling and gliding of the femoral condyles on a fixed tibia, Motion of the femoral condyles during extension	46
1.18	Schematic illustration of shows with internal/external rotation of the tibia, more motion of the lateral tibial condyle than of the medial tibial condyle in both directions	48
1.19	Medial and lateral shift of the patella	51

1.20	Medial and lateral rotation of the patella	52
1.21	The patella shifts medially during early flexion and then either remains there or shifts slightly laterally with deeper flexion; Patellofemoral joint	52
3.1	Instruments used in present study	109
3.2	Showing morphometric measurements of patella of knee in cadavers– present study; A- Anterior aspect of dissected knee. B- Length of patella. C- Width of patella. D- Thickness of patella. E- Width of lateral articular facet.	113
3.3	Showing morphometric measurements of patellar ligament of knee in cadavers– present study - F- Patellar ligament in dissected knee. G- Length of patellar ligament. H- Width of patellar ligament. I and J- Thickness of patellar ligament in proximal and distal part.	113
3.4	Showing morphometric measurements of distal articular surface of femur in cadaver– present study; Antero-posterior diameter of lateral femoral condyle. B- Transverse diameter of lateral femoral condyle.	113
3.5	Showing morphometric measurements of distal articular surface of femur in cadaver– present study. C- Antero-posterior diameter of medial femoral condyle. D- Width of Intercondylar notch.	113
3.6	Showing morphometric measurements Antero-posterior diameter of intercondylar area of tibia and distance from tibial condyle to tibial tuberosity.	117
3.7	Showing morphometric measurements of medial tibial condyle antero posterior diameter and medial tibial condyle transverse diameter.	117
3.8	Showing morphometric measurements of lateral tibial condyle antero posterior diameter and lateral tibial condyle transverse diameter.	118
3.9	Showing morphometric measurements of intercondylar area in cadaver– present study. A.- TD ICA (anterior part) B.- TD ICA (middle part)C.- TD ICA (Posterior part)	118
3.10	Showing various shapes of menisci a. Crescent shaped b. Sickle shaped c. C-shaped d. Sided U-shaped e. Sided V shaped f. incomplete discoid g. Complete discoid	119
3.11	Showing morphometric measurements of medial menisci in cadaver– present study. Length with non elastic cotton thread,	120

	Length with vernier caliper, thickness of medial menisci (posterior one-third)	
3.12	Showing morphometric measurements of lateral menisci in cadaver– present study. Length with non-elastic cotton thread and vernier caliper, thickness of lateral menisci (anterior one-third), thickness of lateral menisci (posterior one-third)	121
3.13	Showing morphometric measurements of medial menisci in cadaver; Width of menisci anterior one-third, Width of menisci middle-one third, Width of menisci posterior one third	121
3.14	Showing morphometric measurements of Fibular collateral ligament in cadaver – present study. A-Length B.-Width	124
3.15	Showing morphometric measurements of length and width of Anterior cruciate ligament in cadaver – present study	124
3.16	Showing morphometric measurements of length and mid-width of oblique popliteal ligament	125
4.1	Showing different shapes of medial menisci of knee joint	150
4.2	Showing different shapes of lateral menisci of knee joint	151
4.3	Showing different shapes of medial and lateral menisci of knee joint	153
4.4	Showing transverse ligament of knee joint	168
4.5	Showing various Os fabella in present study	172
4.6	Showing rare variation of unilateral double headed plantaris muscle in present study	174
4.7	A. Showing most frequent constituent of pes anserinus with mono-tendinous tendons of Sartorius(S), Gracilis (G), and Semitendinosus (ST), muscle forming S/G/ST pattern. B. Showing tendon of Semimembranosus muscle (SM) taking participation in the constituent of pes anserinus forming S/G/ST/SM pattern.	178
4.8	Showing accessory band of sartorius tendon taking participation in the constituent of pes anserinus forming S/G/ST/Sa pattern. D. Showing accessory bands of semitendinosus taking participation in the constituent of pes anserinus forming S/G/ST/aST/abST pattern.	178
4.9	Showing various convergent pattern of pes anserinus	180
4.10	Showing rare variation of semitendinosus muscle inserting in plantar aponeurosis	183

