

**Government Medical College Srinagar**  
**Post-Doctoral Department of Urology, Uro-oncology & Renal Transplantation**  
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**Syllabus for Assistant Professor Urology**

**1. Basic Sciences Relevant to Urology**

- Anatomy of the genitourinary system (kidneys, ureters, bladder, prostate, urethra, penis, testes)
- Physiology of urine formation, micturition, and male reproductive system
- Pathophysiology of urological diseases (UTIs, renal failure, obstructive uropathy, etc.)
- Pharmacology of drugs used in urology (antibiotics, alpha-blockers, 5-alpha reductase inhibitors, chemotherapy)

**2. Clinical Urology\***

- Urinary Tract Infections (UTIs): Cystitis, pyelonephritis, prostatitis, urethritis
- Obstructive Uropathy: BPH, urethral strictures, ureteropelvic junction (UPJ) obstruction
- Stone Disease: Nephrolithiasis, ureteric stones, medical & surgical management (ESWL, URS, PCNL)
- **Urological Cancers:**
  - Renal cell carcinoma
  - Bladder cancer (TURBT, radical cystectomy)
  - Prostate cancer (screening, biopsy, radical prostatectomy)
  - Testicular cancer (orchietomy, RPLND)
  - Penile cancer

**3. Pediatric Urology**

- Congenital anomalies (hypospadias, vesicoureteral reflux, posterior urethral valves)
- Undescended testes (cryptorchidism)
- Neurogenic bladder (spina bifida, myelomeningocele)

**4. Andrology & Male Infertility**

- Erectile dysfunction (medical & surgical management, penile implants)
- Male infertility (semen analysis, varicocele, azoospermia)
- Peyronie's disease, priapism

**5. Reconstructive Urology**

- Urethral stricture (urethroplasty, dilation)
- Urinary diversion (ileal conduit, neobladder)
- Genitourinary trauma (renal, bladder, urethral injuries)



## **6. Minimally Invasive & Robotic Urology**

- Laparoscopic nephrectomy, pyeloplasty
- Robotic-assisted prostatectomy (RARP)
- Endourology (URS, PCNL, cystolithotripsy)

## **7. Renal Transplantation**


- Donor & recipient evaluation
- Immunosuppression protocols
- Post-transplant complications

## **8. Recent Advances in Urology**

- Focal therapy for prostate cancer (HIFU, cryotherapy)
- MRI-guided prostate biopsy
- Artificial urinary sphincters & neuromodulation

## **9. Academic & Research Methodology**

- Biostatistics & research methodology
- Thesis & dissertation guidance
- Teaching techniques for medical students/residents
- Recent advances

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