

Institutional Academic & Placement Profile

Telapathy College of Medical Science (TCMS) | Academic Year 2025–2026

1. Institutional Strength & Placement Overview

Telapathy College of Medical Science (TCMS) is a large, multi-disciplinary medical university campus with a comprehensive ecosystem covering undergraduate, postgraduate, and super-specialty medical education. By the academic year 2025–2026, the total on-roll student strength of the institution exceeds six thousand, distributed across MBBS, BDS, Nursing, Allied Health Sciences, MD/MS, MDS, and DM/MCh programs.

The institution follows a hospital-integrated training model, where clinical exposure, internship, residency, and research pathways are closely linked with its own tertiary care hospital as well as with affiliated government and corporate healthcare institutions. Placement in the context of medical education at TCMS does not follow a conventional corporate recruitment model; instead, it primarily consists of structured absorption into:

- Government Medical Colleges and Teaching Hospitals (Junior Resident / Senior Resident)
- Central Institutes and Autonomous Research Bodies
- Large Corporate Hospital Chains
- District Hospitals and Public Health Services
- Fellowship and Research Programs in India and Abroad

The placement cell at TCMS functions as a Clinical Career & Residency Coordination Office, which tracks internship performance, postgraduate seat conversions, hospital recruitment, and research fellowships. Only students who have completed mandatory internship, licensing, and regulatory requirements are counted as “placed” in the institutional placement records.

For the academic year 2025–2026, while the total enrolled strength exceeds six thousand students, the officially recorded placed cohort (including Junior Residents, Medical

Officers, Senior Residents, and Research Fellows) is a defined subset, primarily from final-year MBBS, postgraduate, and super-specialty batches.

Student Strength & Placement Summary

```
{  
  "institution": "Telopathy College of Medical Science",  
  "academic_year": "2025-2026",  
  "total_student_strength": {  
    "total_enrolled": 6238,  
    "undergraduate": {  
      "mbbs": 2980,  
      "bds": 620,  
      "nursing_and_allied": 540  
    },  
    "postgraduate": {  
      "md_ms": 1650,  
      "mds": 248  
    },  
    "super_specialty": {  
      "dm_mch": 200  
    }  
  },  
  "placement_overview": {  
    "total_placed_students": 2146,  
    "placement_categories": {  
      "junior_residents": 1035,  
      "medical_officers": 412,  
      "senior_residents": 356,  
      "research_fellows": 187,  
      "overseas_fellowships": 156  
    }  
  }  
}
```

2. Governing Body & Academic Leadership

The governance of Telapathy College of Medical Science (TCMS) is structured in a hierarchical and regulatory-compliant framework to ensure academic integrity, clinical excellence, and administrative efficiency. The institution is guided by a Governing Council at the apex level, followed by executive academic leadership and hospital administration. This structure ensures that policy decisions, academic standards, clinical operations, and student welfare are aligned with the regulations of the National Medical Commission (NMC), affiliating Health Sciences University, and national healthcare policies.

At the top of the institutional hierarchy is the Chairperson, who provides strategic direction, oversees long-term development, and represents the institution at national and international academic and healthcare forums. The Principal and Dean serves as the chief academic and administrative officer, responsible for implementation of academic policies, faculty governance, student affairs, and regulatory compliance. The Medical Superintendent heads the teaching hospital and is accountable for clinical services, patient safety, and integration of hospital training with academic programs.

Supporting the executive leadership are key academic and administrative officers, including the Academic Director, Registrar, and Heads of major functional units. The Academic Director coordinates curriculum implementation, competency-based education, faculty development, and examination systems. The Registrar oversees admissions, records, statutory reporting, and university liaison. Together, this leadership team ensures that TCMS functions as a unified academic health sciences institution.

Governing & Executive Leadership

```
{  
  "governing_body": {  
    "chairperson": {  
      "name": "Dr. Arvind Shekhar Varma",  
      "qualification": "MD (Internal Medicine), PhD (Medical Education)",  
      "experience_years": 30,  
      "role": "Strategic leadership, policy oversight, institutional representation"  
    },  
    "vice_chairperson": {  
      "name": "Dr. Meera Nandita Rao",  
      "qualification": "MS (General Surgery), MBA (Hospital Administration)",  
    }  
  }  
}
```

```
"experience_years": 27,  
    "role": "Operational governance, hospital-academic integration"  
}  
},  
"executive_leadership": {  
    "principal_and_dean": {  
        "name": "Dr. Sanjay Prakash Kulkarni",  
        "qualification": "MD (Medicine), FAIMER Fellow",  
        "experience_years": 25,  
        "role": "Chief academic and administrative officer"  
    },  
    "medical_superintendent": {  
        "name": "Dr. Rituparna Chatterjee",  
        "qualification": "MD (Hospital Administration)",  
        "experience_years": 22,  
        "role": "Head of teaching hospital and clinical services"  
    },  
    "academic_director": {  
        "name": "Dr. Kunal Bhattacharya",  
        "qualification": "MD (Pharmacology), PhD (Clinical Research)",  
        "experience_years": 20,  
        "role": "Curriculum, assessment, faculty development"  
    },  
    "registrar": {  
        "name": "Dr. Nilesh Mahajan",  
        "qualification": "MSc (Health Administration), PhD (Education Management)",  
        "experience_years": 18,  
        "role": "Admissions, records, regulatory coordination"  
    }  
}  
}
```

3. Academic Departments, Heads of Departments (HODs) & Subject–Faculty Mapping

The academic structure of Telapathy College of Medical Science (TCMS) is organized into pre-clinical, para-clinical, and clinical departments in accordance with National Medical Commission (NMC) norms and the affiliating Health Sciences University curriculum. Each department functions under the leadership of a Head of Department (HOD), who is responsible for academic planning, curriculum delivery, faculty coordination, research supervision, and clinical training where applicable.

Faculty members within each department are assigned specific subjects and teaching responsibilities based on their specialization, experience, and regulatory requirements. This ensures continuity in teaching, competency-based skill development, and alignment with assessment and examination standards. The departmental structure also facilitates vertical and horizontal integration of subjects across different phases of the medical curriculum.

Below is a representative structured mapping of major departments, their HODs, and teaching faculty with assigned subjects. This format is intended for direct ingestion into a vector database, enabling semantic retrieval of queries such as “Who teaches Pharmacology?”, “Who is the HOD of Radiology?”, or “Which faculty handles Pediatrics in final year MBBS?”

Department-wise Leadership & Teaching Assignment

```
{  
  "departments": [  
    {  
      "department_name": "Anatomy",  
      "hod": {  
        "name": "Dr. Suresh Raghunath Iyer",  
        "qualification": "MS (Anatomy), PhD (Neuroanatomy)",  
        "experience_years": 23  
      },  
      "faculty": [  
        {  
          "name": "Dr. Kavita Menon",  
          "designation": "Professor",  
          "subjects": ["Pathophysiology", "Medical Microbiology"]  
        }  
      ]  
    }  
  ]  
}
```

```
"subjects_taught": ["Gross Anatomy", "Neuroanatomy"]  
},  
{  
  "name": "Dr. Rohit Malhotra",  
  "designation": "Associate Professor",  
  "subjects_taught": ["Histology", "Embryology"]  
},  
{  
  "name": "Dr. Nisha Kulkarni",  
  "designation": "Assistant Professor",  
  "subjects_taught": ["Surface Anatomy", "Radiological Anatomy"]  
}  
]  
},  
{  
  "department_name": "Physiology",  
  "hod": {  
    "name": "Dr. Alok Prasad Mishra",  
    "qualification": "MD (Physiology), PhD (Cardiorespiratory Physiology)",  
    "experience_years": 21  
  },  
  "faculty": [  
    {  
      "name": "Dr. Pooja Sharma",  
      "designation": "Professor",  
      "subjects_taught": ["Cardiovascular Physiology", "Respiratory Physiology"]  
    },  
    {  
      "name": "Dr. Vinayak Deshpande",  
      "designation": "Associate Professor",  
      "subjects_taught": ["Neurophysiology", "Endocrine Physiology"]  
    },  
    {  
      "name": "Dr. Farah Siddiqui",  
      "designation": "Assistant Professor",  
      "subjects_taught": ["Renal Physiology", "Gastrointestinal Physiology"]  
    }  
  ]
```

```
},
{
  "department_name": "Biochemistry",
  "hod": {
    "name": "Dr. Rameshwar Lal Gupta",
    "qualification": "MD (Biochemistry), PhD (Molecular Biology)",
    "experience_years": 24
  },
  "faculty": [
    {
      "name": "Dr. Anjali Saxena",
      "designation": "Professor",
      "subjects_taught": ["Clinical Biochemistry", "Enzymology"]
    },
    {
      "name": "Dr. Karthik Reddy",
      "designation": "Associate Professor",
      "subjects_taught": ["Metabolism", "Molecular Genetics"]
    },
    {
      "name": "Dr. Shilpa Banerjee",
      "designation": "Assistant Professor",
      "subjects_taught": ["Nutrition", "Hormonal Biochemistry"]
    }
  ]
},
{
  "department_name": "Pathology",
  "hod": {
    "name": "Dr. Neeraj Kapoor",
    "qualification": "MD (Pathology), FRCPath",
    "experience_years": 22
  },
  "faculty": [
    {
      "name": "Dr. Sunita Arora",
      "designation": "Professor",
      "subjects_taught": ["Hematology", "Histopathology"]
    }
  ]
}
```

```
},
{
  "name": "Dr. Pranav Joshi",
  "designation": "Associate Professor",
  "subjects_taught": ["Cytopathology", "Clinical Pathology"]
},
{
  "name": "Dr. Mehul Shah",
  "designation": "Assistant Professor",
  "subjects_taught": ["Immunopathology", "Molecular Diagnostics"]
}
]
},
{
  "department_name": "Microbiology",
  "hod": {
    "name": "Dr. Ayesha Rahman",
    "qualification": "MD (Microbiology), PhD (Infectious Diseases)",
    "experience_years": 20
  },
  "faculty": [
    {
      "name": "Dr. Pratik Kulkarni",
      "designation": "Professor",
      "subjects_taught": ["Bacteriology", "Antimicrobial Resistance"]
    },
    {
      "name": "Dr. Rina Thomas",
      "designation": "Associate Professor",
      "subjects_taught": ["Virology", "Mycology"]
    },
    {
      "name": "Dr. Arjun Patel",
      "designation": "Assistant Professor",
      "subjects_taught": ["Parasitology", "Hospital Infection Control"]
    }
  ]
},
```

```
{  
  "department_name": "Pharmacology",  
  "hod": {  
    "name": "Dr. Deepak Narayan Kulkarni",  
    "qualification": "MD (Pharmacology), PhD (Clinical Trials)",  
    "experience_years": 21  
  },  
  "faculty": [  
    {  
      "name": "Dr. Ritu Bansal",  
      "designation": "Professor",  
      "subjects_taught": ["Systemic Pharmacology", "Adverse Drug Reactions"]  
    },  
    {  
      "name": "Dr. Imran Qureshi",  
      "designation": "Associate Professor",  
      "subjects_taught": ["Clinical Pharmacology", "Therapeutics"]  
    },  
    {  
      "name": "Dr. Sneha Patil",  
      "designation": "Assistant Professor",  
      "subjects_taught": ["Autonomic Pharmacology", "Pharmacovigilance"]  
    }  
  ]  
}
```

4. Clinical Departments, HODs & Teaching Responsibilities

The clinical departments at Telapathy College of Medical Science (TCMS) form the core of bedside teaching, internship training, postgraduate residency, and patient-centered learning. Each department is headed by a senior clinician-academic who oversees undergraduate teaching, postgraduate training, clinical services, research activities, and regulatory compliance. Faculty members are assigned to specific subjects, clinical

postings, and skill modules as per the competency-based curriculum and hospital service requirements.

The following structured mapping provides department leadership and subject-teaching responsibility in a JSON-friendly format for vector database ingestion and semantic retrieval.

Clinical Department Structure

```
{  
  "clinical_departments_continued": [  
    {  
      "department_name": "Orthopedics",  
      "hod": {  
        "name": "Dr. Prakash Narayan Kulkarni",  
        "qualification": "MS (Orthopedics), MCh (Spine Surgery)",  
        "experience_years": 25  
      },  
      "faculty": [  
        {  
          "name": "Dr. Rohan Mehta",  
          "designation": "Professor",  
          "subjects_taught": ["Spine Surgery", "Trauma Orthopedics"]  
        },  
        {  
          "name": "Dr. Anupama Iyer",  
          "designation": "Associate Professor",  
          "subjects_taught": ["Joint Replacement", "Sports Injuries"]  
        },  
      ]  
    }  
  ]  
}
```

```
{  
    "name": "Dr. Karthik Nair",  
    "designation": "Assistant Professor",  
    "subjects_taught": ["Pediatric Orthopedics", "Hand Surgery"]  
}  
]  
,  
{  
    "department_name": "Radiology",  
    "hod": {  
        "name": "Dr. Nitin Choudhary",  
        "qualification": "MD (Radiodiagnosis), FRCR",  
        "experience_years": 24  
    },  
    "faculty": [  
        {  
            "name": "Dr. Shreya Bansal",  
            "designation": "Professor",  
            "subjects_taught": ["CT & MRI Imaging", "Neuroradiology"]  
        },  
        {  
            "name": "Dr. Faizan Ahmed",  
            "designation": "Associate Professor",  
            "subjects_taught": ["Interventional Radiology", "Vascular Imaging"]  
        },  
        {  
    ]
```

```
        "name": "Dr. Pooja Kulkarni",
        "designation": "Assistant Professor",
        "subjects_taught": ["Ultrasound", "Doppler Studies"]
    },
],
},
{
    "department_name": "Anesthesiology",
    "hod": {
        "name": "Dr. Sanjay Krishnamurthy",
        "qualification": "MD (Anesthesia), Fellowship in Critical Care",
        "experience_years": 23
    },
    "faculty": [
        {
            "name": "Dr. Meenal Joshi",
            "designation": "Professor",
            "subjects_taught": ["Cardiac Anesthesia", "Critical Care"]
        },
        {
            "name": "Dr. Harpreet Singh",
            "designation": "Associate Professor",
            "subjects_taught": ["Neuroanesthesia", "Pain Management"]
        },
        {
            "name": "Dr. Ritu Sharma",

```

```
        "designation": "Assistant Professor",
        "subjects_taught": ["Regional Anesthesia", "ICU Protocols"]
    },
],
},
{
    "department_name": "Psychiatry",
    "hod": {
        "name": "Dr. Anand Kulshreshtha",
        "qualification": "MD (Psychiatry), PhD (Neuropsychology)",
        "experience_years": 22
    },
    "faculty": [
        {
            "name": "Dr. Neha Kapoor",
            "designation": "Professor",
            "subjects_taught": ["Clinical Psychiatry", "Psychopharmacology"]
        },
        {
            "name": "Dr. Sameer Qureshi",
            "designation": "Associate Professor",
            "subjects_taught": ["Child Psychiatry", "Behavior Therapy"]
        },
        {
            "name": "Dr. Aditi Verma",
            "designation": "Assistant Professor",
        }
    ]
}
```

```
        "subjects_taught": ["Addiction Medicine", "Community Mental Health"]  
    }  
]  
,  
{  
    "department_name": "ENT (Otorhinolaryngology)",  
    "hod": {  
        "name": "Dr. Rakesh Malviya",  
        "qualification": "MS (ENT), DNB",  
        "experience_years": 21  
    },  
    "faculty": [  
        {  
            "name": "Dr. Pallavi Deshmukh",  
            "designation": "Professor",  
            "subjects_taught": ["Otology", "Cochlear Implants"]  
        },  
        {  
            "name": "Dr. Arvind Sethi",  
            "designation": "Associate Professor",  
            "subjects_taught": ["Rhinology", "Endoscopic Sinus Surgery"]  
        },  
        {  
            "name": "Dr. Nupur Arora",  
            "designation": "Assistant Professor",  
            "subjects_taught": ["Laryngology", "Voice Disorders"]  
        }  
    ]  
}
```

```
        }
    ]
},
{
  "department_name": "Ophthalmology",
  "hod": {
    "name": "Dr. Pradeep Venkatesan",
    "qualification": "MS (Ophthalmology), FICO",
    "experience_years": 24
  },
  "faculty": [
    {
      "name": "Dr. Ritu Malhotra",
      "designation": "Professor",
      "subjects_taught": ["Cataract Surgery", "Intraocular Lenses"]
    },
    {
      "name": "Dr. Mohit Bhatia",
      "designation": "Associate Professor",
      "subjects_taught": ["Retina & Vitreous", "Diabetic Retinopathy"]
    },
    {
      "name": "Dr. Shalini Roy",
      "designation": "Assistant Professor",
      "subjects_taught": ["Glaucoma", "Pediatric Ophthalmology"]
    }
  ]
}
```

```
]  
}  
]  
}
```

5. Placement Ecosystem – Hospitals, Roles, Departments & Absorption Channels

At Telapathy College of Medical Science (TCMS), “placement” is defined as structured clinical absorption and career progression rather than corporate-style recruitment. The transition pathways include Junior Residency (JR), Senior Residency (SR), Medical Officer (MO) roles, Super-Specialty Fellowships, and Research Appointments. These are facilitated through the college’s own teaching hospital, affiliated government medical colleges, central institutes, and large corporate hospital networks. The Career & Residency Coordination Office maintains formal MoUs, tracks vacancy cycles, and supports students through licensing, interviews, and counseling for specialty choices.

The ecosystem operates across three primary channels:

1. Government & Public Sector

Central and State Medical Colleges, District Hospitals, ESIC Hospitals, Railways, Armed Forces Medical Services, and National Health Mission units. Roles typically include Junior Resident, Senior Resident, and Medical Officer, with rotations across Medicine, Surgery, Pediatrics, OBG, Orthopedics, Anesthesia, Radiology, and Emergency Medicine.

2. Corporate & Private Hospital Networks

Multi-specialty chains and tertiary care centers absorb graduates as Residents, Registrars, and Clinical Associates, often with structured fellowship tracks in critical care, interventional specialties, and subspecialties.

3. Research & Academic Pathways

Central research institutes, medical universities, and funded projects offer positions as Research Fellows, Clinical Trial Coordinators, and PhD Scholars, particularly in Pharmacology, Microbiology, Community Medicine, Oncology, and Translational Sciences.

Placement Distribution & Role Mapping

```
{  
  "placement_ecosystem": {  
    "channels": {  
      "government_public_sector": {  
        "roles": ["Junior Resident", "Senior Resident", "Medical Officer"],  
        "key_departments": ["Medicine", "Surgery", "Pediatrics", "OBG", "Orthopedics",  
        "Anesthesia", "Radiology", "Emergency Medicine"],  
        "institutions": ["State Medical Colleges", "Central Institutes", "District Hospitals",  
        "ESIC Hospitals", "Railway Hospitals"]  
      },  
      "corporate_private_sector": {  
        "roles": ["Resident Medical Officer", "Registrar", "Clinical Associate", "Fellow"],  
        "key_departments": ["Critical Care", "Cardiology", "Neurosciences", "Oncology",  
        "Orthopedics", "Gastroenterology"],  
        "institutions": ["Multi-Specialty Hospital Chains", "Tertiary Care Centers"]  
      },  
      "research_academic_track": {  
        "roles": ["Research Fellow", "Clinical Trial Coordinator", "PhD Scholar"],  
        "key_departments": ["Pharmacology", "Microbiology", "Community Medicine",  
        "Oncology", "Translational Medicine"],  
        "institutions": ["Central Research Institutes", "Medical Universities", "Funded Research  
        Labs"]  
      }  
    },  
    "role_distribution": {  
      "junior_resident": 1035,  
      "senior_resident": 356,  
      "medical_officer": 412,  
      "corporate_resident_registrar": 256,  
      "research_fellow": 187  
    }  
  }  
}
```

6. Faculty Strength, Designations & Teaching Load Distribution

Telapathy College of Medical Science (TCMS) maintains a large and hierarchically structured faculty body to support its undergraduate, postgraduate, and super-specialty programs in accordance with National Medical Commission (NMC) norms. Faculty strength is distributed across pre-clinical, para-clinical, and clinical departments, ensuring optimal student-teacher ratios, continuity of teaching, research supervision, and clinical mentoring.

The academic workforce is organized into four primary cadres:

1. **Professors** – Senior academic leaders responsible for curriculum planning, advanced teaching, research supervision, postgraduate training, and departmental administration.
2. **Associate Professors** – Mid-level faculty engaged in core teaching, clinical training, research guidance, and academic coordination.
3. **Assistant Professors** – Primary instructors for undergraduate and early postgraduate teaching, skill lab training, and tutorial sessions.
4. **Tutors / Demonstrators / Senior Residents (Teaching Track)** – Involved in practical demonstrations, small group teaching, bedside clinics, and assessment support.

Teaching load is allocated based on subject complexity, clinical service requirements, student strength, and regulatory norms. Pre-clinical and para-clinical departments emphasize lecture hours, practical sessions, and laboratory supervision, while clinical departments focus on bedside teaching, ward rounds, case discussions, procedural training, and emergency duty supervision.

Faculty Strength & Distribution

```
{  
  "faculty_overview": {  
    "total_faculty_strength": 486,  
    "designation_wise_distribution": {  
      "professors": 92,  
      "associate_professors": 128,  
      "assistant_professors": 176,  
      "tutors_demonstrators": 100  
    }  
  }  
}
```

```
"tutors_and_senior_residents_teaching_track": 90
},
"department_category_wise_distribution": {
  "pre_clinical": {
    "departments": ["Anatomy", "Physiology", "Biochemistry"],
    "total_faculty": 96
  },
  "para_clinical": {
    "departments": ["Pathology", "Microbiology", "Pharmacology", "Forensic Medicine",
"Community Medicine"],
    "total_faculty": 124
  },
  "clinical": {
    "departments": ["Medicine", "Surgery", "Pediatrics", "OBG", "Orthopedics",
"Radiology", "Anesthesia", "Psychiatry", "ENT", "Ophthalmology", "Dermatology",
"Emergency Medicine"],
    "total_faculty": 266
  }
},
"teaching_load_model": {
  "lecture_hours_per_week": {
    "professor": "6–10 hours",
    "associate_professor": "8–12 hours",
    "assistant_professor": "10–16 hours",
    "tutor_senior_resident": "12–18 hours"
  },
  "clinical_teaching_responsibilities": [
    "Bedside clinics",
    "Ward rounds",
    "Case-based discussions",
    "Skill lab supervision",
    "Procedure demonstrations",
    "Emergency duty teaching"
  ],
  "assessment_roles": [
    "Internal assessments",
    "OSCE/OSPE",
    "University practical examinations",
  ]
}
```

```
        "Viva voce",
        "Logbook and competency certification"
    ]
}
}
```

7. Department-wise Placement Outcomes & Career Pathways

Placement outcomes at Telapathy College of Medical Science (TCMS) are tracked specialty-wise to evaluate academic effectiveness, clinical competency, and alignment with national healthcare manpower requirements. The Career & Residency Coordination Office maintains structured records of how graduates from different departments transition into Junior Residency, Senior Residency, Medical Officer roles, Super-Specialty training, and Research Fellowships.

Placement trends show that clinical core departments such as General Medicine, Surgery, Pediatrics, Obstetrics & Gynecology, Orthopedics, Anesthesia, and Radiology account for the highest absorption into government and corporate hospitals, while para-clinical and pre-clinical departments contribute significantly to research, diagnostics, and academic career tracks.

Department-wise Placement Distribution

```
{
  "department_wise_placements": {
    "General Medicine": {
      "junior_residents": 182,
      "senior_residents": 64,
      "medical_officers": 48,
      "research_fellows": 22,
      "common_institutions": ["State Medical Colleges", "Central Institutes", "Corporate ICUs"]
    },
    "General Surgery": {
```

```
"junior_residents": 156,
"senior_residents": 58,
"medical_officers": 36,
"research_fellows": 18,
"common_institutions": ["Trauma Centers", "Tertiary Care Hospitals", "Teaching
Hospitals"]
},
"Pediatrics": {
"junior_residents": 128,
"senior_residents": 42,
"medical_officers": 34,
"research_fellows": 16,
"common_institutions": ["Children Hospitals", "Neonatal ICUs", "District Hospitals"]
},
"Obstetrics_Gynecology": {
"junior_residents": 134,
"senior_residents": 46,
"medical_officers": 40,
"research_fellows": 14,
"common_institutions": ["Maternity Hospitals", "Medical Colleges", "Fetal Medicine
Units"]
},
"Orthopedics": {
"junior_residents": 118,
"senior_residents": 38,
"medical_officers": 26,
"research_fellows": 12,
"common_institutions": ["Trauma Centers", "Sports Medicine Hospitals"]
},
"Radiology": {
"junior_residents": 96,
"senior_residents": 32,
"medical_officers": 22,
"research_fellows": 18,
"common_institutions": ["Imaging Centers", "Teaching Hospitals", "Corporate
Diagnostics"]
},
"Anesthesiology": {
```

```
"junior_residents": 104,  
"senior_residents": 36,  
"medical_officers": 28,  
"research_fellows": 10,  
"common_institutions": ["Critical Care Units", "Operation Theatres", "Pain Clinics"]  
},  
"Psychiatry": {  
"junior_residents": 64,  
"senior_residents": 22,  
"medical_officers": 18,  
"research_fellows": 14,  
"common_institutions": ["Mental Health Institutes", "Teaching Hospitals", "Community Psychiatry Units"]  
},  
"Para_Clinical_and_Pre_Clinical": {  
"junior_residents": 57,  
"senior_residents": 18,  
"medical_officers": 24,  
"research_fellows": 63,  
"common_institutions": ["Research Institutes", "Diagnostic Labs", "Medical Universities"]  
}  
}  
}
```

8. Key Recruiter Institutions & Hospital Networks

Telapathy College of Medical Science (TCMS) maintains long-standing academic and clinical affiliations with a wide network of government, autonomous, and corporate healthcare institutions. These partnerships facilitate internship postings, residency placements, fellowship opportunities, and research collaborations. The institutional placement ecosystem is thus not limited to a single campus hospital but extends across regional, national, and international healthcare systems.

Graduates from TCMS are absorbed into three major categories of recruiter institutions:

1. **Government & Autonomous Medical Institutions** – Central and State Medical Colleges, AIIMS-like institutes, ESIC and Railway hospitals, and large district teaching hospitals, primarily for Junior and Senior Residency and Medical Officer roles.
2. **Corporate & Private Tertiary Care Hospitals** – Multi-specialty chains and quaternary care centers offering residency, registrar, fellowship, and consultant-track positions, particularly in critical care, interventional specialties, and advanced diagnostics.
3. **Research & Academic Organizations** – National research institutes, public health bodies, clinical trial organizations, and medical universities, providing research fellowships, PhD programs, and academic appointments.

Recruiter Network & Absorption Mapping

```
{
  "recruiter_network": {
    "government_and_autonomous_institutions": {
      "types": ["Central Medical Institutes", "State Medical Colleges", "District Teaching Hospitals", "ESIC Hospitals", "Railway Hospitals"],
      "roles_offered": ["Junior Resident", "Senior Resident", "Medical Officer"],
      "specialties_with_high_absorption": ["Medicine", "Surgery", "Pediatrics", "OBG", "Orthopedics", "Anesthesia", "Radiology"]
    },
    "corporate_and_private_hospitals": {
      "types": ["Multi-Specialty Hospital Chains", "Quaternary Care Centers", "Specialty Institutes"],
      "roles_offered": ["Resident Medical Officer", "Registrar", "Clinical Associate", "Fellow"],
      "specialties_with_high_absorption": ["Critical Care", "Cardiology", "Neurosciences", "Oncology", "Gastroenterology", "Orthopedics"]
    },
    "research_and_academic_organizations": {
      "types": ["National Research Institutes", "Medical Universities", "Public Health Bodies", "Clinical Trial Organizations"],
      "roles_offered": ["Research Fellow", "PhD Scholar", "Project Scientist", "Clinical Trial Coordinator"],
      "specialties_with_high_absorption": ["Pharmacology", "Microbiology", "Community Medicine", "Oncology", "Translational Medicine"]
    }
  }
}
```

```
"international_affiliations": {  
    "types": ["Overseas Teaching Hospitals", "Global Research Centers"],  
    "roles_offered": ["Clinical Fellow", "Observer", "Research Scholar"],  
    "specialties_with_high_absorption": ["Critical Care", "Emergency Medicine",  
        "Radiology", "Oncology"]  
}  
}  
}
```

9. Academic–Clinical Integration & Career Progression Lifecycle

At Telapathy College of Medical Science (TCMS), medical education is structured as a continuous professional development pathway rather than a set of isolated academic stages. The institution follows an integrated model in which classroom learning, laboratory training, clinical exposure, research orientation, and service delivery are vertically and horizontally aligned from the first year of undergraduate study through postgraduate specialization and advanced clinical practice.

Undergraduate Phase (MBBS / Allied Health)

During the undergraduate phase, students undergo a competency-based curriculum that integrates pre-clinical sciences, para-clinical disciplines, and early clinical exposure. Teaching is delivered through lectures, small-group tutorials, skill laboratories, simulation training, and supervised patient interaction. Faculty mentors guide students in developing foundational knowledge, clinical reasoning, communication skills, and professional ethics.

By the final year, students participate in full-time clinical postings across major departments, including Medicine, Surgery, Pediatrics, Obstetrics & Gynecology, Orthopedics, Psychiatry, Anesthesia, Radiology, and Community Medicine. This phase emphasizes bedside learning, case-based discussions, and procedural skills, preparing students for independent clinical responsibility.

Compulsory Rotating Internship

After completion of the undergraduate program, all students undergo a compulsory rotating internship within the teaching hospital and affiliated healthcare institutions. During this period, interns function as first-level clinical care providers under supervision, managing ward duties, emergency services, outpatient care, and community health programs. Performance during internship plays a critical role in subsequent career placement, residency selection, and specialty choice.

Junior Residency / Medical Officer Phase

Successful interns transition into Junior Resident or Medical Officer roles through government service selection, institutional recruitment, or corporate hospital placement. In this phase, graduates assume greater clinical responsibility, participate in emergency and critical care services, and refine their diagnostic and procedural competencies. Faculty consultants and senior residents provide continuous supervision and assessment.

Postgraduate Specialization (MD / MS / MDS)

Graduates opting for specialization enter postgraduate training programs, where they undergo structured academic coursework, advanced clinical rotations, procedural training, and research leading to a dissertation. This stage emphasizes depth of specialty knowledge, evidence-based practice, teaching skills, and leadership in patient care teams.

Senior Residency, Fellowship & Research Track

After postgraduate qualification, many graduates proceed to Senior Residency in teaching hospitals, subspecialty fellowships in advanced clinical domains, or research appointments in national and international institutes. These roles involve independent clinical decision-making, supervision of junior trainees, academic teaching, and contribution to clinical research and innovation.

Academic and Leadership Pathway

A proportion of specialists transition into academic careers as faculty members, contributing to teaching, curriculum development, clinical governance, and institutional leadership. With experience, they progress to roles such as Associate Professor,

Professor, Head of Department, Dean, and members of governing bodies, thereby sustaining the academic and professional ecosystem of the institution.

Career Progression Framework

```
{  
  "career_progression_lifecycle": {  
    "undergraduate_phase": {  
      "programs": ["MBBS", "BDS", "Nursing", "Allied Health Sciences"],  
      "focus": ["Foundational sciences", "Early clinical exposure", "Skill lab training",  
      "Professional ethics"],  
      "outcomes": ["Clinical competency certification", "Eligibility for internship"]  
    },  
    "internship_phase": {  
      "role": "Compulsory Rotating Medical Intern",  
      "training_areas": ["Medicine", "Surgery", "Pediatrics", "OBG", "Orthopedics",  
      "Anesthesia", "Emergency Medicine", "Community Health"],  
      "outcomes": ["Licensure eligibility", "Readiness for residency or medical officer roles"]  
    },  
    "early_career_phase": {  
      "roles": ["Junior Resident", "Medical Officer"],  
      "focus": ["Independent patient care under supervision", "Emergency services",  
      "Specialty orientation"],  
      "outcomes": ["Eligibility for postgraduate entrance", "Clinical experience  
      accumulation"]  
    },  
    "postgraduate_phase": {  
      "programs": ["MD", "MS", "MDS"],  
      "focus": ["Specialty training", "Advanced procedures", "Dissertation research",  
      "Teaching assistance"],  
      "outcomes": ["Specialist qualification", "Senior residency eligibility"]  
    },  
    "advanced_training_and_research": {  
      "roles": ["Senior Resident", "Clinical Fellow", "Research Fellow", "PhD Scholar"],  
      "focus": ["Subspecialty expertise", "Independent practice", "Academic research",  
      "Faculty development"],  
      "outcomes": ["Consultant practice", "Academic appointments", "Leadership roles"]  
    },  
  }  
}
```

```
"academic_and_leadership_track":{  
    "designations": ["Assistant Professor", "Associate Professor", "Professor", "Head of  
Department", "Dean"],  
    "focus": ["Teaching", "Curriculum leadership", "Clinical governance", "Institutional  
policy"],  
    "outcomes": ["Sustained academic excellence", "Healthcare leadership"]  
}  
}  
}
```