



**YENEPOYA**

(DEEMED TO BE UNIVERSITY)

Recognized under Sec 3(A) of the UGC Act 1956

Accredited by NAAC with 'A' Grade

**1.1.3 Courses with focus on competency/ employability/ entrepreneurship/ skill-development offered either by the University or in collaboration with partner Institutions/ Industries during the last five years (2016-2021).**

### **Any other documents**

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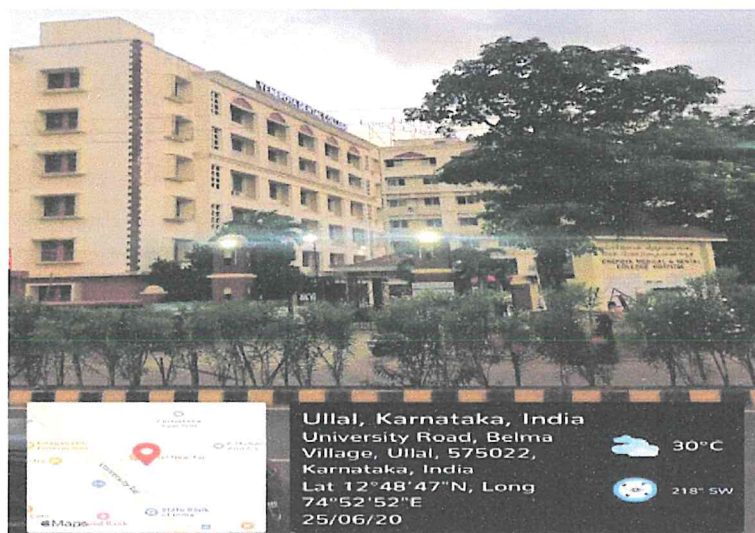
Facilities available in the Teaching hospitals at Yenepoya (Deemed to be University) offer contemporary and advanced learning resources for the undergraduate and post graduate students to be trained in various skills in psychomotor and affective domain. The hospitals support the skill training by not just providing the patients as a learning resource but also by adequate infrastructure, equipment, and the personnel available.

The teaching hospitals have been a place to nurture the holistic development of students and develop the soft, non-technical skills of communication, leadership, teamwork, language skills, empathy, counseling, and advocacy.

The hospitals also provide the appropriate avenue and support for conducting various activities of National Service Scheme and national schemes such as *Swachh Bharath*, *Swachh Mukh Abhiyaan* etc.

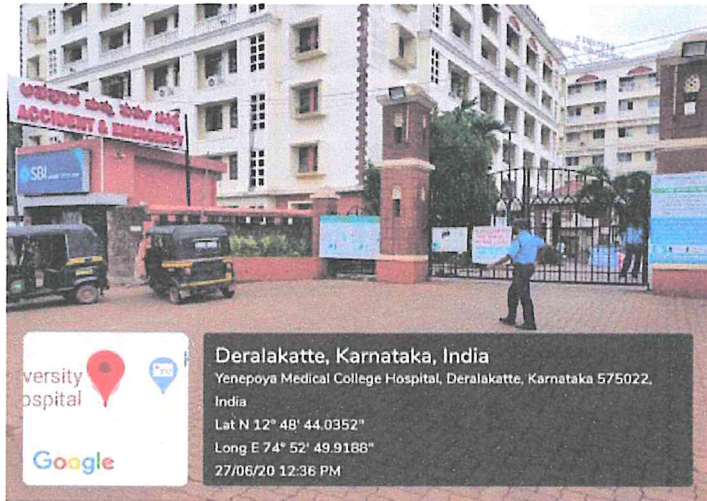
## 1. YENEPOYA MEDICAL COLLEGE HOSPITAL (YMCH)

- YMCH is a multi-disciplinary teaching hospital, offering diagnostic and treatment facilities in general and super specialty services. It offers ample scope for hands on clinical training to students of all health professional streams including medical, dental, nursing, physiotherapy, and pharmacy disciplines.

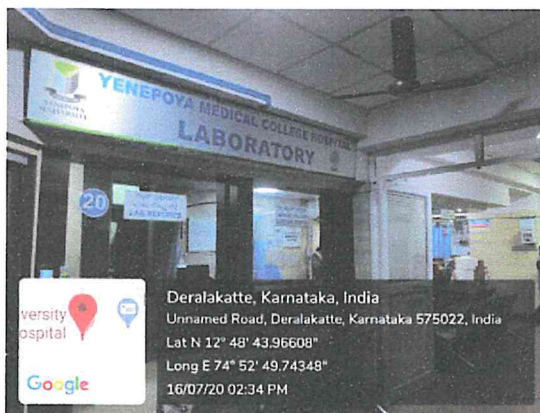


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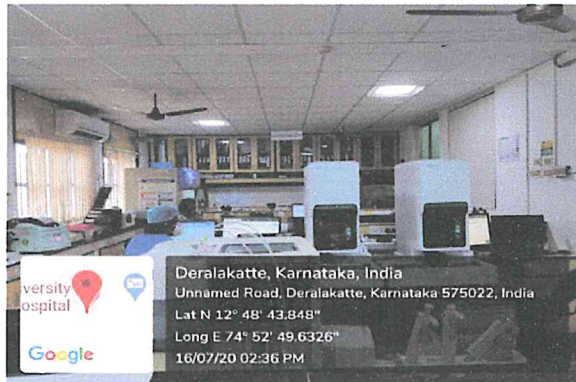
- The skill training is available in the all the broad and several super specialties, which are available in the hospital.
- Availability of emergency care facilities like ell equipped casualty and ambulance service offers the scope of learning skill of emergency and trauma management and disaster management.



- **NABL accredited Laboratory** offers the provision for training in Clinical Biochemistry, Clinical Microbiology and Serology, Clinical Pathology, Haematology and Histopathology & Cytopathology. Presence of Blood Transfusion services.



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- **Diagnostic services** available in the hospital provide opportunity to students to learn regarding various state of the art imaging techniques such as CT Scanning, Cath Lab, Mammography, MRI – 3 Tesla, Ultrasound, X-Ray, Echocardiography, EEG, EMG, EP, MCV, Spirometry, Tread Mill Testing,



- Well-equipped ICUs (MICU, NICU, PICU & SICU) are the places which enable the students to develop the competency of Critical care management and the skills required for handling and managing medical and surgical emergency.

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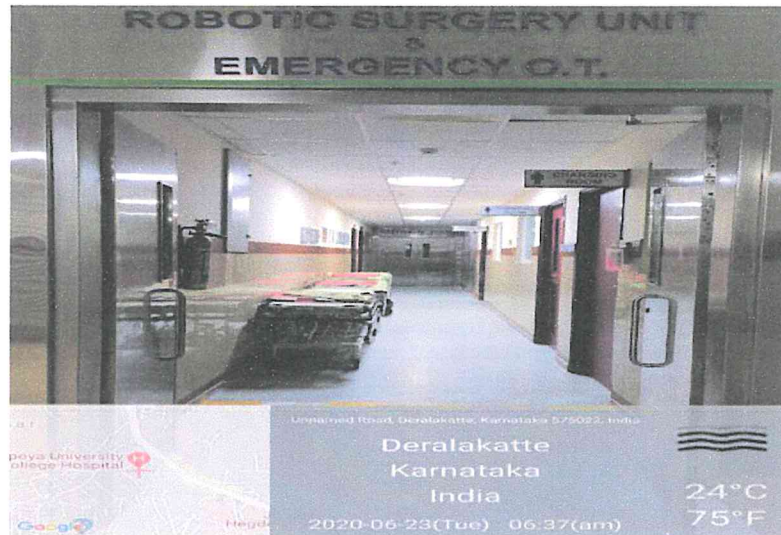


- **Operation Theatres (14)** cater to various broad and super specialties including General Surgery: 2, Orthopaedic: 02, ENT: 01, Ophthalmology: 01, OBG: 02, Urology: 01, Surgical Oncology: 01, Robotic Surgery: 01,



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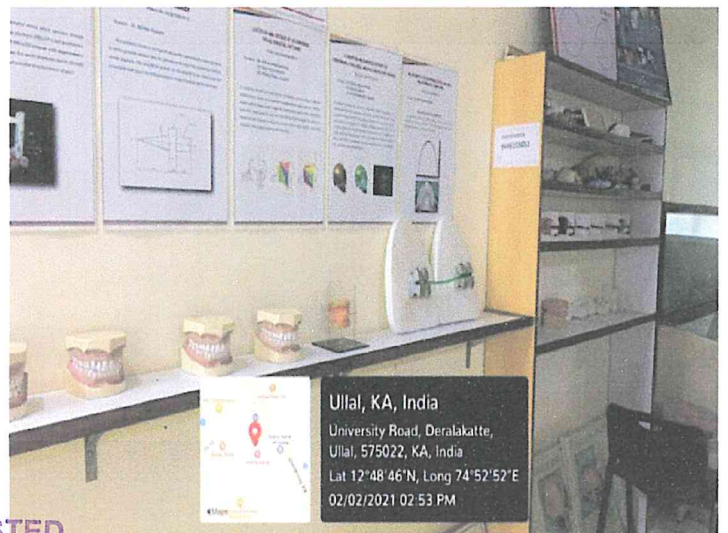
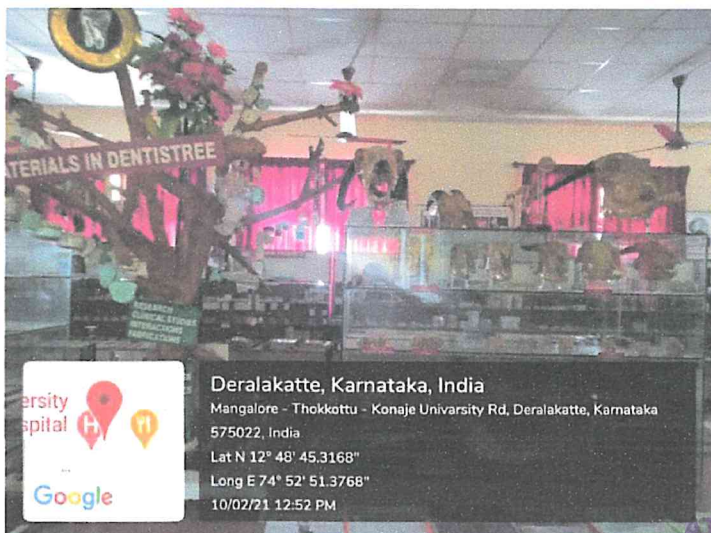
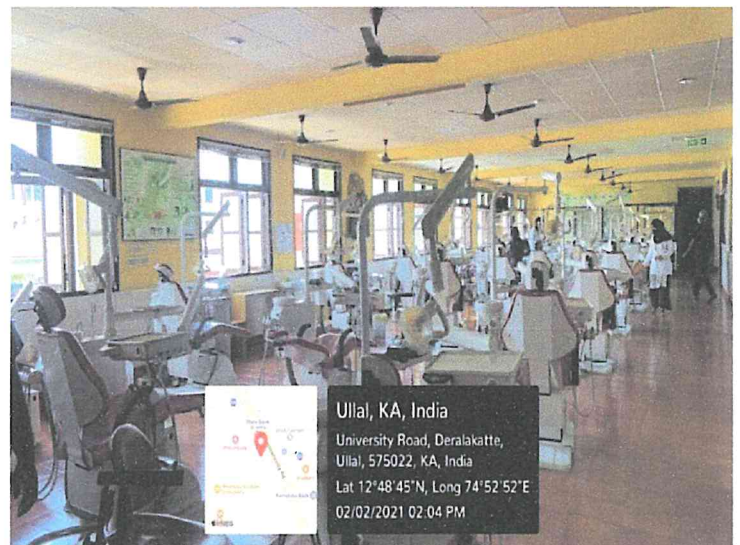
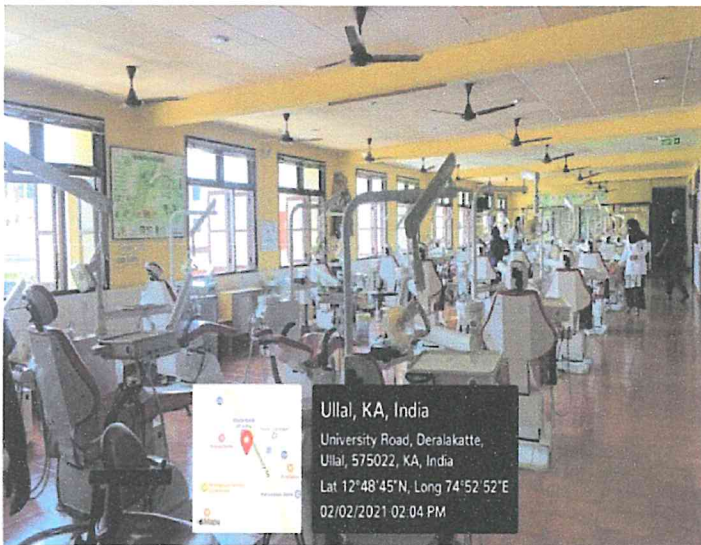
- Emergency OT: 01, Neurosurgery: 01, Cardiothoracic: 01.



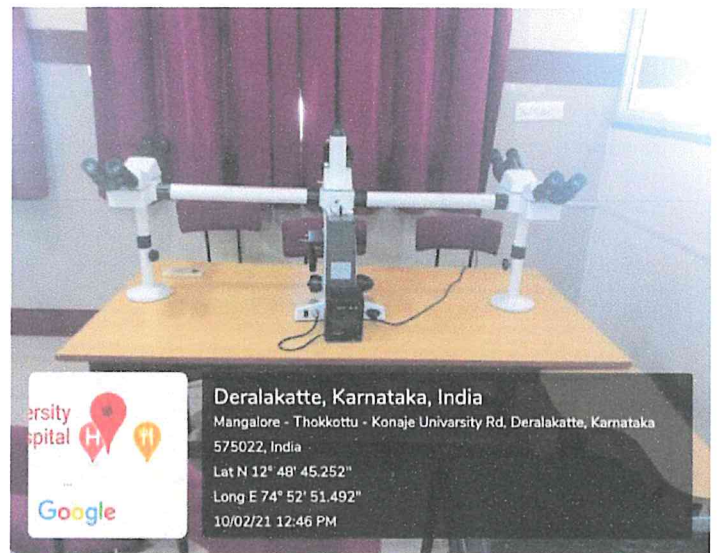
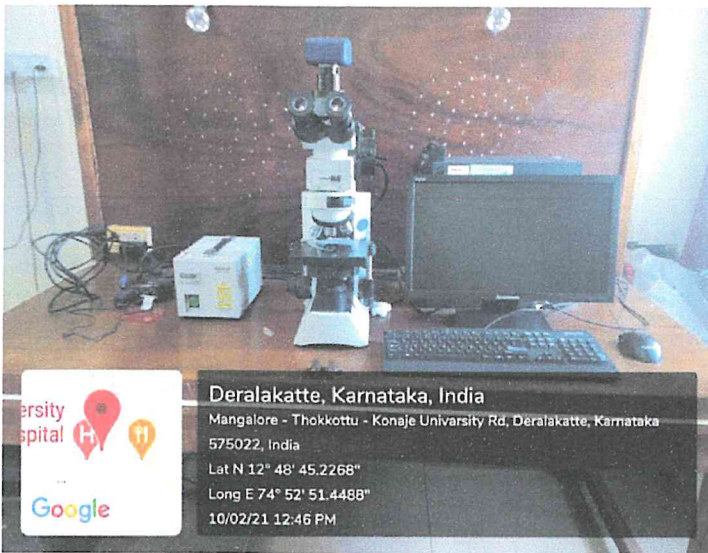
- **Rehabilitation services** offered by the Physiotherapy and Speech Therapy departments help the students learn the skill of offering holistic care to the patients.
- The Hospital offers **Telemedicine Services** and trains the students in how to use such facilities appropriately and optimally for offering clinical, counseling, and medical consultations to patients.

## 2. YENEPOYA DENTAL COLLEGE HOSPITAL (YDCH)

- YDCH is well equipped hospital offers diagnostic and treatment facilities in broad and super specialty services. The facilities offered at YDCH for skill training includes;
- Well-equipped and IT enabled classrooms, seminar halls and demonstration room, Minor OT, Electrical dental chairs provide good infra structure for skill training and assessment at the Yenepoya Dental college hospital. **Dental Museum** offers the students to learn from models and discuss and not just the clinical material.



- The various equipment which assists in developing diagnostic and clinical skills of students include - Penta-head fluorescent microscopes, Dark field microscopes, Endodontic microscopes and surgical loupes, Digital imaging, CBCT technology, LASER units.



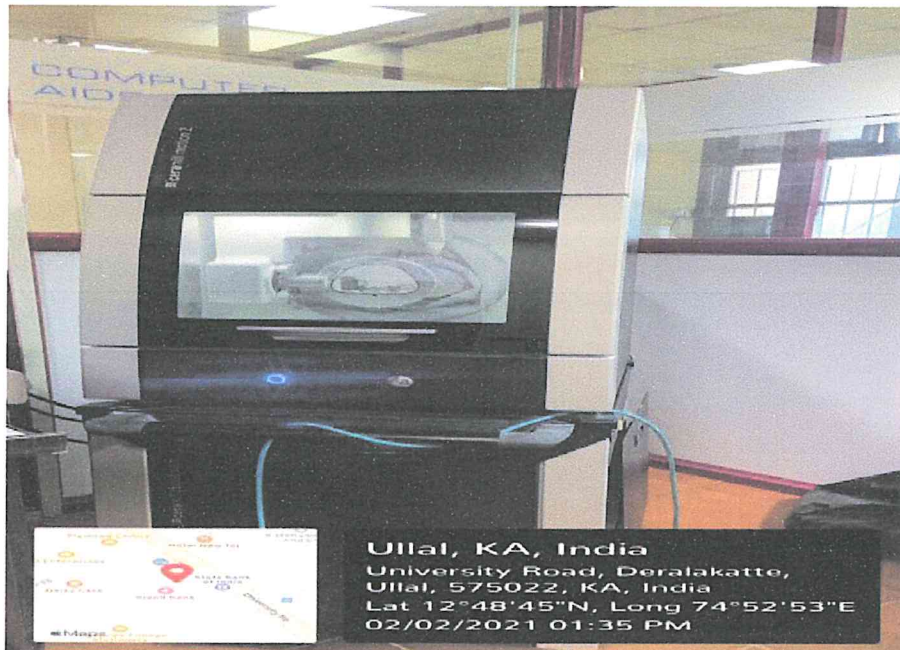
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*[Signature]*

Dr. Gangadhara Somayaji K.S.

Registrar



- **Research Facilities** - UTM machine and CAD CAM center are used for material research



### 3. YENEPOYA AYURVEDA MEDICAL COLLEGE & HOSPITAL (YAMCH)

- Yenepoya Ayurveda Medical College hospital offers both general and specialty care. This enables the students to be exposed to wide variety of clinical material.
- Good infrastructures in the form of OPD, inpatient wards, Operation Theatre, Labour theatre, *Panchakarma* Theatre, emergency management and 24hrs Ambulance facility allow the students to practice their skills. This provides students good training in Ayurveda system of Medicine.
- The clinical departments like *Kayachikitsa*, *Shalya tantra*, *Shalakyta tantra*, *Prasuti tantra* are housed in the hospital complex. The students are trained in skills of providing special therapies like Leech Therapy, Bloodletting, *Agni karma*, *Kshara Karma*, *Marma therapy* at the hospital by well-trained doctors.

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## Skill training with special therapies



### 4. Yenepoya Homoeopathic Medical College Hospital (YHMCH)

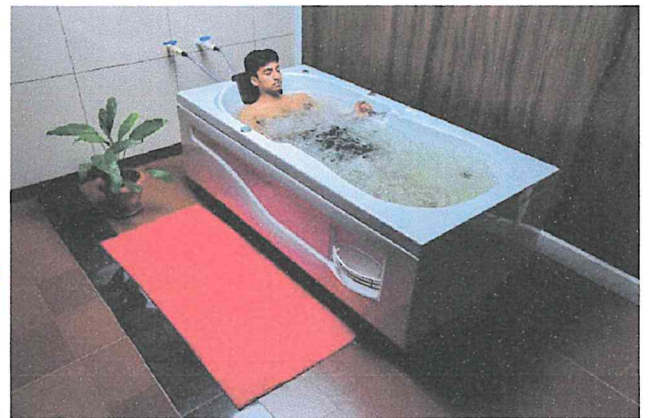
“Yenepoya Homoeopathy Treatment Centre” is a unit of YHMCH for Homoeopathic mode of treatment. The 4 Units at OP and IP section under Medicine, Paediatric, Gynaecology & Obstetrics, and Surgery provide adequate clinical material for the students to hone their clinical, diagnostic and management skills.



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## 5. Yenepoya Naturopathy and Yogic Science College and Hospital (YNYSCH)

Yenepoya Naturopathy Yogic Science College and Hospital provides a myriad of health services like hydrotherapeutic treatments, Dietetic Management, Acupuncture, Physical Therapy, Yoga Therapy and Meditation. Students are given hands on training and made to experience the efficacy of the Naturopathy and Yoga based treatment modalities. They are made to understand the need of using various treatments in different combinations to get the desired results. Patients coming to this teaching hospital are subjected to a 10 -15 day treatment and diet regime needed for their bodies to detoxify & recuperate from all the imbalances and inflammatory processes that have been caused to the body.



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## **Skill Acquisition And Competency Assessment For Interns**

### **Yenepoya Medical College, Mangalore**

**Introduction:** All the students' pursuing MBBS from YMC, have to undergo medical internship known as Compulsory Rotatory Residential Internship (CRRRI). This is a 12 months hand on training and is mandatory for being awarded the MBBS degree.


#### **The objectives of internship training programme**

At the end of training, the Intern shall be able to;

- Diagnose clinically common diseases, make timely decision for referral to higher level.
- Use discreetly the essential drugs, infusions, blood or its substitutes and laboratory services.
- Manage all type of emergencies medical, surgical, obstetric, neonatal and paediatric.
- Demonstrate skills in monitoring of the National Health Programmes and schemes.
- Develop leadership qualities.
- Render services to chronically sick and disabled.
- Render specific services to the cases from the tribal and backward regions of the State.

This is ensured by giving them adequate and supervised guidance and hands on work related to clinical care and communication with patients and ensuring they work independently as well as in collaborative teams. The satisfactory completion of internship usually requires that student attend all the postings as per schedule and perform the duties assigned to him by the department. This usually involves only unstructured and informal assessment. At Yenepoya Medical College, the eligibility for satisfactory completion includes formative assessment as well as formal and structured assessment at end of clinical rotations.

  
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## Assessment

The student is assessed at end of the rotation in the **department**. Satisfactory completion from department shall be determined on the basis of the following:

- a. Proficiency of knowledge required for each case Score 0-10
- b. The competency and skills in managing the specialty cases.

The assessment is done by respective head of unit /intern's coordinator and entered in log book itself at the end of posting.

The students once they complete the posting undergo a **centralised clinical skill assessment examination**. The examination assesses knowledge and skills which they should have acquired. The overall objective of this is to assess if the interns have acquired the skill and competencies as per the objectives state above.

To ensure multiple domains can be assessed in an replicable, efficient and practical, time bound manner, **Objective Structured Clinical Examination (OSCE)** was selected as an assessment tool. An OSCE is a type of examination designed to test clinical skill performance and competence in a range of skills.

## Process of planning the assessment

The process involved in the clinical skills assessment include

### 1. Creating a team of assessors

- A core team for planning includes the MEU convener and co convener and clinical skill assessment coordinator under the leadership of dean.
- The team is involved in planning regarding the stations to be selected and also the logistics of exams such as date, timing, distribution of students in batches, selection of assessors.
- The assessors from the various departments are deputed by the dean and preferably should be having designation of associate professor or above.

- The assessment examination is conducted in the simulation centre (ACTS YEN). This ensures that the cubicles are available and also the various simulators available can be employed for assessment.

### Selecting the skills and competencies to be assessed

- The core team along with the assessors plans regarding the stations, scoring pattern and logistics of time, personnel, equipments etc required.
- A standard template is used to prepare checklists and enter the marks of each station. A single score sheet compiles the marks of all the subjects.
- The assessors are requested to select the stations from the must know areas and the skills which they have taught in the department.
- The checklists for the stations are prepared as per standard national guidelines or departmental SOPs. This is to ensure uniformity and objectivity and that what is taught is assessed.

A sample of distribution of department and skills tested is as follows.

S. No.	Department	Procedure/ Skill tested
1.	Medicine	<ul style="list-style-type: none"> <li>• ECG – performing, interpretation</li> <li>• Lumbar Puncture</li> <li>• Diagnosing general medical emergencies</li> </ul>
2.	Pulmonary medicine	<ul style="list-style-type: none"> <li>• X-Ray interpretation and ordering the investigation</li> <li>• Asthma/COPD - counselling</li> </ul>
3.	Surgery	<ul style="list-style-type: none"> <li>• Ryle's tube insertion</li> <li>• Foley's catheterisation</li> <li>• Breast lump examination</li> <li>• Rectal examination</li> <li>• Suturing</li> <li>• Knotting</li> </ul>
4.	Orthopedics	<ul style="list-style-type: none"> <li>• Splinting</li> <li>• Triage handling</li> <li>• Cervical injury identification</li> </ul>
5.	Pediatrics	<ul style="list-style-type: none"> <li>• Immunisation</li> <li>• IV Cannulation</li> </ul>

		<ul style="list-style-type: none"> <li>• Chest compression</li> <li>• Bag AND Mask Ventilation</li> <li>• Neonatal Resuscitation</li> <li>• Identification of critically ill child</li> </ul>
6.	ENT	<ul style="list-style-type: none"> <li>• Otoscopy</li> <li>• Diagnosing routine and emergency condition</li> </ul>
7.	Ophthalmology	<ul style="list-style-type: none"> <li>• Fundus examination techniques and identification of clinically important fundus findings</li> <li>• Identification and primary management of Ophthalmic emergencies</li> <li>• History taking skills</li> <li>• Prescription writing</li> <li>• Counselling</li> </ul>
8.	OBG	<ul style="list-style-type: none"> <li>• Normal delivery</li> <li>• PV examination</li> <li>• Monitoring eclampsia</li> <li>• PPH</li> <li>• Antenatal advice</li> <li>• Counselling a patient on nutrition, contraception</li> <li>• Cu T insertion</li> </ul>
9.	Anaesthesia	<ul style="list-style-type: none"> <li>• Intubation</li> <li>• Basic life support</li> </ul>
10.	Dermatology	<ul style="list-style-type: none"> <li>• Identification of skin lesions</li> <li>• Counselling</li> </ul>
11.	Community medicine	<ul style="list-style-type: none"> <li>• Communication skills</li> <li>• Counselling</li> <li>• Bio medical Waste disposal</li> </ul>
12.	Psychiatry	<ul style="list-style-type: none"> <li>• Counselling</li> <li>• History taking skills</li> </ul>

### Conduct of Clinical skills assessment

#### For the students

- Students must arrive at the examination site half an hour before the commencement of the examination
- A briefing session will be conducted by the OSCE Coordinator to inform the students about the examination process.

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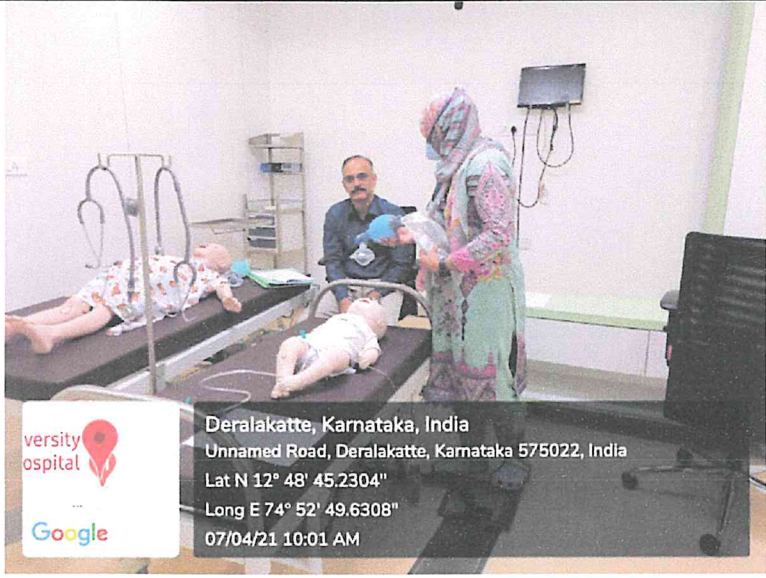
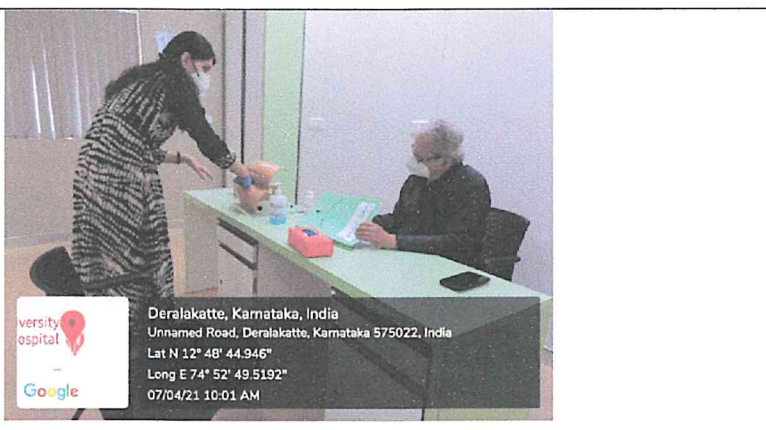
- In case of large batches, the students are requested to wait in the lecture hall, adjacent to ACTSYEN, and called as per their batch rotation.
- All OSCE stations will be of 5 minutes duration & carry 10 marks.
- All stations are of equal duration & weightage.
- Each student will proceed through the sequence of stations sequentially. A bell indicates the time for students to move on to the next station and complete all the assessments.


### Criteria for Pass/ Fail


- The marks of exams conducted at departmental level would be given a weightage of 50%, for declaring the result.
- A minimum of 40 % should be scored in each station/ subject to be considered as pass.
- Scores in specialties which are elective postings will not be considered to declare pass/fail. Failing in the OSCE would entail additional postings in concerned departments as follows:
- Following the evaluation, the concerned Clinical skill examination coordinator will submit the statement of marks obtained by the candidate, to the dean, YMC within 2 days. Before declaring the result, moderation may be done by Principal, YMC in consultation with concerned department HODs.
- If a candidate is declared as unsuccessful in any of the disciplines she/he shall be required to repeat the posting in the respective department, for a period of 30% of the total number of days/months, prescribed for that discipline in Internship posting. The duration is generally usually as follows.
  - Medicine, Surgery, OBG, Community Medicine – 10 days
  - Paediatrics, Orthopaedics – 07 days
  - Ophthalmology, ENT, Psychiatry, Anaesthesia – 5 days
  - Pulmonary Medicine, Dermatology – 3 days



- A candidate shall have the right to register his grievance in any aspects of conduct of evaluation/award of marks, to the dean, within three days from the declaration of result.
- Interns would need to attend the extension postings and duly get certificate of completion from concerned department heads prior to being given certificate of internship completion by Principal, YMC.

 <p>     Deralakatte, Karnataka, India      Unnamed Road, Deralakatte, Karnataka 575022, India      Lat N 12° 48' 45.2304"      Long E 74° 52' 49.6308"      07/04/21 10:01 AM   </p>	<p>Paediatrics</p>
 <p>     Deralakatte, Karnataka, India      Unnamed Road, Deralakatte, Karnataka 575022, India      Lat N 12° 48' 44.946"      Long E 74° 52' 49.5192"      07/04/21 10:01 AM   </p>	<p>General surgery</p>

  
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Deralakatte, Karnataka, India  
Unnamed Road, Deralakatte, Karnataka 575022, India  
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Orthopaedics



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General Medicine

  
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# Anaesthesiology

Name of Dept: Anaesthesiology

Date: 12.04.2019

Sl. No.	Roll Number	Marks	13M047	13M056	13M060	13M067	13M069	13M071	13M073	13M081	13M086	13M090
1.	Scene Safety	0.5	X	✓	X	X	✓	X	X	X	X	X
2.	Assess the Response (Tap the shoulder)	0.5	X	✓	X	✓	✓	✓	✓	X	X	✓
3.	Shout for help / Activate code Blue / Call 108	0.5	X	✓	✓	✓	✓	✓	✓	✓	✓	✓
4.	Check pulse (>5 Sec, < 10 Sec.)	0.5	X	✓	✓	✓	✓	✓	✓	✓	✓	X
5.	Check Breathing	0.5	X	X	✓	✓	X	✓	X	X	X	X
6.	Start CPR	0.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7.	Hand position (Lower half of sternum)	0.5	X	✓	✓	✓	✓	✓	X	X	✓	✓
8.	Correct depth (at least 5 cm.)	0.5	X	✓	✓	✓	✓	✓	X	✓	✓	✓
9.	Continues 30 compressions (@100-120/min.)	0.5	X	✓	✓	✓	✓	✓	✓	✓	✓	✓
10.	Allow chest recoil	0.5	X	✓	X	X	✓	✓	X	✓	✓	✓
11.	Correct technique (Elbow straight)	0.5	✓	✓	✓	✓	✓	✓	✓	X	X	✓
12.	Shift to breathing (02 breaths)	0.5	✓	✓	X	✓	✓	✓	✓	✓	✓	✓
13.	Bag mask ventilation (C & E Technique)	1	✓	X	X	✓	X	X	X	X	✓	X
14.	Resume compressions (< 10 Sec.)	0.5	✓	✓	X	✓	✓	✓	✓	✓	✓	✓
15.	2 <sup>nd</sup> cycle (30:2)	1	X	✓	✓	✓	✓	✓	X	X	X	X
16.	3 <sup>rd</sup> cycle (30:2)	1	X	X	X	X	✓	✓	X	X	X	X
17.	Overall quality maintenance for 3 cycles	0.5	X	X	X	X	✓	✓	X	X	X	✓
18.	Total	10	3.5	7	5	7.5	8.5	8.5	4	4	5.5	5.5

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## Master score sheet

YENEPOYA MEDICAL COLLEGE, MANGALORE  
Assessment of Clinical Skills for the Interns of 2013 Additional Batch/Repeaters of 2012, 2011, 2010 & 2009  
Batch:  
MASTER SCORE SHEET

Sl. No.	Roll No.	1	2	3	4	5	6	7	8	9	10	11	Total (Average)
		General Medicine	General Surgery	OBG	Paediatrics	Community Medicine	Ophthalmology	ENT	Orthopaedics	Anaesthesiology	Dermatology	Respiratory Medicine	
1.	13M004	6	6	7.5	5	5	5	9	7	5	6	6	70.5
2.	13M007	7	7	7.5	7	6	5	9.5	6	5	8	6	77
3.	13M010	4	5	7.5	5	6	4.5	7	5	6	9	5	64
4.	13M013	6	6	6.5	5.5	5	4.5	6	5	5	5	8	62.5
5.	13M018	8	6	7.5	8.5	5	3	6	5	5	5	8	70
6.	13M036	ABSENT											
7.	13M037	7	6.5	7.5	6	5	4	8	5	8	5	8	70
8.	13M044	7	5	5.5	5	6	4	5	5	5	8	5	60.5
9.	13M055	9	6.5	7.5	6.5	5	5	7.5	5	6	5	6	71
10.	13M057	7	9	7.0	8.5	7	5	8	8	8	6	8	81.5
11.	13M066	7	7.5	7.5	5	5	5	6.5	7	8	5	6	69.5
12.	13M076	6	5.5	8.0	5	5	5	8.5	6	6	5	9	69
13.	13M079	5	5.5	8.0	5.5	6	4	5	7	9	8	6	69
14.	13M080	5	6.5	7.5	7	6	3	5	5	8	5	6	64

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### Master score sheet

	Med 1	Surg 2	ORG 3	Paeds 4	Commnd 5	@p/Htal 6	PAIS 7	Other 8	Arndth 9	Drumnd 10	Rep mat 11	
35. 11M023	6	6.5	9.0	6	5	4.75	5	6	7	8	6	69.25
36. 11M027	7	6	3.0	5.5	5	4.75	7	6	8	5	6	62.25
37. 11M043	7	5.5	5.0	6	5	4	6	5	8	8	9	69.5
38. 11M045	ABSENT				ABSENT							
39. 11M047					ABSENT							
40. 11M061	6	5	5.5	6	5	4.75	6	6	8	8	6	67.25
41. 11M064	7	6	6.0	3	6	3	5	5	7	8	7	63
42. 11M071	7	7	3.5	5.5	5	3.75	6	5	8	8	6	69.75
43. 11M074	ABSENT				ABSENT							
44. 11M081	5	5	7.5	7	5	4.75	5	5	7	6	6	63.25
4. 11M130	ABSENT				ABSENT							
46. 09M011	5	5.5	7.5	5.5	6	4.75	6	5	9	10	7	71.25
47. 09M079	6	5	3.5	5	5	4.5	6	5	9	5	6	65
48. 11M034	6	5	6	4	6	4.5	6	5	8	6	6	62.5
49.												
50.												

*Dr. Anand...*

*Dr. Vijay...*

*Dr. Spandana...*

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