

## **Yenepoya University:**

In 1991, the Islamic Academy of Education, a not-for-profit trust committed to the upliftment of minorities, was established by entrepreneur Mr. Yenepoya Abdulla Kunhi as its Chairman. The trustees perceived a hiatus in the area of Health Professional Education and so decided to start a Dental college. Within a very short span of time (1992) the Yenepoya Dental College was granted permission by the Dental Council of India to educate aspiring students to become dentists. Soon, with one successful milestone after another, the Trust launched the Yenepoya Institute of Nursing Sciences (1994), the Yenepoya Medical College (1999), the Yenepoya Nursing College (2003) and the Yenepoya Physiotherapy College (2004). All these colleges were offering Graduate and Postgraduate programs.

The Islamic Academy of Education in its quest towards excellence in professional education, decided to sponsor the formation of a new trust with the sole purpose of creating a Deemed-to-be University (2007). Yenepoya University, with its vision "To provide access to quality higher education ensuring equity, create a vibrant knowledge capital and to create inspiring leaders of tomorrow who can take this country to the forefront of developed nations" was notified as a 'Deemed University' by University Grants Commission on 27<sup>th</sup> February 2008, through Notification No. F.9-11/2007-U.3(A). Yenepoya University is also the first unaided Deemed University in the district of Dakshina Kannada, Karnataka. Yenepoya University is an active member of Association of Indian Universities. Today, the Yenepoya University has on its rolls nearly 3000 students. The University is accredited with **NAAC "A"** grade with a **CGPA score of 3.14**.

**Academics:** University offers 98 different programmes in Health and Allied Sciences, Seventy new programmes during last 5 years and 48 programmes were revised by respective Board of Studies. The University has introduced

PhD programme in 39 Departments and Research Centres as per the UGC regulations. Research fellowship schemes and short research studies have been included in the curriculum to bring about research orientation and practice of evidence based medicine. 19 Application Oriented Courses and Value Added programmes enable students to acquire soft skills and provide greater employment opportunities. All the class rooms are ICT and Wi-Fi enabled. E-learning is practiced essentially across all the disciplines through the software namely **Yengage**. Forum activities and online tests are some of the unique features of this mode of transaction. Training on Hospital Information System (**HIS**) for UG and PG Students is one of the unique features successfully implemented during last 4 years. The academic calendar includes didactic lectures, group discussions, training through skill laboratories and simulators, micro teaching, PBLs workshop, debate, journal club, seminars etc. The skill lab is upgraded with human patient simulators and surgical skill simulators. Most of the students coming out of these colleges have been well placed. Regular feedbacks are collected from the alumni and other experts for improving student performance.

The **Yenepoya Medical College Hospital** has 1250 beds with a state-of-the-art infrastructure and facilities. It offers secondary and tertiary health care (super specialty) and treatment free of cost or at highly subsidized rates to all the needy. It has Intensive care Units, Modern Operation Theatres, 24 h Radiology with CT, MRI, Color Doppler, Echo Cardiograph, Endoscopy Units, Blood Bank, 24x7 Central Clinical Lab, Pharmacy, Dialysis Unit, Physiotherapy, Nutrition and Dietetics services, Casualty and Emergency services and thousands of poor patients from Karnataka and neighboring states avail the benefits of health care offered by us. Approximately 60 % of the patients visiting the hospital are from Minority and Backward Communities. The food (costing Rs. 65/person/day), bed charges and drugs (more than 150

prescriptions) are provided free of cost to all. Most of the Govt. health care plans and schemes available for the poor, backward and general public are implemented by the hospital. Mortuary services, cold storage and medico legal autopsies are also part of the service provided by the hospital. The Hospital works in association with at least twenty service organizations including orphanages, old age homes, palliative care centers, HIV/AIDS care and support centers, Endosulphan Rehabilitation Centers etc. to extend timely free health care service and support.

**Research:** University has brought out its own scientific Journal “Archives in Medicine and Health Sciences” (AMHS, Print ISSN 2321-4848) published biannually by Walter Kluwers (Medknow). It is indexed and will be listed shortly in NLM catalogue (PubMed). Research has been an integral part of the curriculum. Thus research projects in the University are not merely research for the sake of research but a scientific enquiry into contemporary issues that leads to formation of new knowledge and/or processes. **The Yenepoya Research Centre** was formed in 2007, which served as a central point and a catalyst. Since then, there has been a steady increase in number of research proposals undertaken and publication output. The publications by our faculty, in national, international reputed journals and books have reached close to 1500. University has a separate IPM and UII Cells which facilitates industrial interaction and patent filing and technology transfers. Twenty patents have been filed by the University through its IPM Cell and one of the technologies developed is ready for commercialization through technology transfer. The Central Research facility has state-of-the-art sophisticated next generation equipment's like Orbitrap Fusion Tribrid Mass Spectrophotometer and FT Mass Spectrophotometers to carry out proteomics, genomics, and metabolomics and transcriptomics research. Centre also has facility for infectious diseases research, regenerative medicine, tissue engineering, computational biology, Biostatistics, bio-

informatics, molecular biology, microbiology, cell culture and toxicology related experiments. The Animal House facility has a latest IVC system for small animals and is recognized by CPCSEA. Yenepoya University has a Medicinal Plant Garden with 80 medicinal plants from Western Ghats.

The University has nine centres in emerging and thrust areas, and has a separate dedicated directorate for PhD studies. 39 departments and 44 teachers have been recognized as research guides. Till date 53 students have been awarded PhD, 6 students have submitted the thesis and 6 students have submitted their final Synopsis. University has received 297.18 lakhs research grants from National and International funding agencies for research projects.

University has evolved a Junior Research Fellowship Scheme, Post Doctoral fellowship, and Research Associate programmes for encouraging full time research in emerging areas of medicine. Seed Grant programmes for young faculty and incentive scheme for publications are some of the important research promotion methods adopted to attract young faculty towards research. During last four years 56 UG students have received STS-ICMR research fellowship for the projects. University has spent 2016.82 lakhs during the last 4 years for upgrading central research laboratory. Twenty three dedicated faculty scientists are working in this centre. Fifty one MoU's have been signed with reputed institutions and industries for faculty exchange and joint research projects. There is a Research Advisory Board, Research Malpractice Prevention Committee, Research committee, Board of PG Teaching and Research. Till date, 68 research workshops, more than 500 CME/CDE/CNE/CPE, 13 national/International conferences and 25 seminars have been conducted by the University for promoting Research and Development.

**The Center for Health Professional Education** strives to bring about constant reforms in Curriculum, Teaching Learning and Evaluation process through vigorous training and workshops. There is no shortage of faculty in any of the colleges. Adequate number of (1300) support and technical staff assist in the day-day functioning of the university.

**Yenepoya Centre for Craniofacial Anomalies** is one of the unique centres in India, which focuses on treating Cleft and craniofacial deformities and development disorders in children.

**Centre for Ethics and Bioethics** at Yenepoya University fosters a renaissance movement in the field of bioethics. In 2010, a proposal was mooted by the Department of Forensic Medicine to host a Centre to establish an ethics courses and place Yenepoya University on the global map of bioethics education, as a pioneer in the country. Yenepoya University took the bold and innovative initiative to create a Centre for Ethics in February 2011, for mainstreaming bioethics education and research. The Centre also houses the Yenepoya University Ethics Committee received accreditation by **the Forum for Ethics Review Committees** for the Asia-Pacific region (FERCAP).

#### **Collaborations (Overseas)**

- Johannes Gutenberg University, Mainz, Germany
- Duquesne University, Pittsburgh, Pennsylvania, USA
- Universidad Panamericana, Mexico
- Hacettepe University, Ankara, Turkey.

**Centre for Biomaterials and Medical Devices** has a dedicated team of scientists involved in developing newer biomaterials for diagnostics and therapeutics of various disease conditions.

### **Robotic Surgery Unit**

Robotic surgery with the da Vinci Surgical System was approved by the Food and Drug Administration in 2000. The technique has been rapidly adopted by hospitals in the United States and Europe for use in the treatment of a wide range of conditions. In India, this system is available at only a few reputed hospitals. Yenepoya Medical College Hospital, offers such advanced surgical facility in coastal Karnataka region for first time, and by a private deemed to be University. Such a hi-tech facility is accessible to poor and needy patients from Karnataka and India for free or at a highly subsidized cost.

### **Advance Comprehensive Clinical Training and Simulation Centre (ACTS YEN)**

Advance Comprehensive Clinical Training and Simulation Centre – (ACTS YEN) was established in 2016. ACTS YEN is a major step towards the University's vision of promoting excellence in clinical care, competency – based health professional education, ethical student training, and in paving the road towards improved patient care, safety and satisfaction. The Simulation Centre – ACTS YEN, provides reproducible and on-demand access to patients and clinical experiences through simulators and task trainers.

The Anatomage Table – A technology masterpiece – Anatomage, the first in India, offers an opportunity to learn anatomy in a unique manner. It provides a three dimensional virtual dissection of the human body. It is also a powerful radiology workstation, and a tool for surgical and pathological cases reviews.

The High Fidelity Simulators incorporate computerized mannequins that closely mimic anatomy and hemodynamic physiology of a human body.

The Virtual Reality Simulators like Endoscopy trainer, Laparoscopy trainer, Cath lab, Ultra Sound, Ophthalmic and Otosopic viewers allows trainees or

surgeons to practice procedural skills to perform minimally invasive surgeries, including bronchoscope, upper and lower gastrointestinal endoscopies, cardiac valve replacements, transthoracic ultra sound and many more.

The Blue Phantoms mannequins allow training for regional anaesthesia.

### **Institutional Social Responsibility (ISR)**

One of the key activities of the university is community outreach programmes and health care delivery programmes. Apart from the activities of Community Health Dentistry, Community Health Nursing, Medico Social Work and Rural Health Care & Development Centre, University has a separate Rural Health Care & Development Centre, which has 26 sub centres under its ambit. Dental college has 9 peripheral sub centres in rural and outreach areas and Physiotherapy College also has one peripheral sub centre. 1153 different types of medical/dental camps and 04 awareness rallies have been conducted during last four years. Several innovative schemes namely “Yen” Arogya Card, Door to Door Health Care Delivery Programme, Yen Health Care on Wheels, Training on Family Doctor System have been initiated. All the national programmes are implemented in these outreach areas and all the government insurance schemes namely **Sampoorna Suraksha “SKDRP” Scheme, VajapeyeeArogyashree, RashtriyaSwasthyaBhimaYojana (RSBY), NavodayaChaithanya Scheme, Yashaswini Health Scheme, DBCS (Blind Control Programme)**, Government empanelled hospital for providing treatment to Government employees and their family members on reimbursement basis scheme have been implemented through these programmes in the hospital. Overall a lakh population is covered under different health schemes of the Yenepoya University. Days and weeks of national importance are observed and various programmes are conducted during these days. Free treatment, food, bed and medication are provided for the patients with Yen Health Cards referred to the hospital. The NSS unit of the university has

conducted 93 health awareness programmes during last four years. University has tie-up with more than 35 non-government organizations from Karnataka and Kerala states for effective health care delivery. University also is recognized by the Kerala and Karnataka states as one of the centres for treating Endosulphan affected population in the border areas of Kerala and Karnataka. The Hospital provides free food, bed and medicine to all the poor patients.

Ashraya is a unique student initiative for community service and development. This organisation collects funds through various fund raising programmes for charitable purposes. This organisation extends help to poor patients who are admitted to the hospital.

University provides 20 free seats of YMC, YDC, YNC& YPC for poor and economically backward and underprivileged students. Excellence awards (Cash awards) are given to the students hailing from Dakshina Kannada, Udupi and Kasaragod districts who have secured highest percentage of marks in S.S.L.C., P.U.C., Undergraduate and Postgraduate programmes from different institutions. University also organizes programmes for the benefit of public by inviting students and faculty of other organizations to train in museum techniques, research etc. University organizes “**Museum as Fountain of Learning**” for the school children regularly. During the last 4 years, 311 school students visited the museums of the Medical and Dental Colleges.

### **Infrastructure**

University is located in 36.76 acre campus at Deralakatte, Mangalore. All the 4 constituent colleges are located within the campus. The built up area is 92355.47 Sq.ft. The Medical College & Hospital has 25 seminar halls with all audio visual facilities, 20 reading rooms, 07 lecture halls, 15 museums, Demo rooms, Laboratories etc. There are lift ramps available for differently abled individuals. The University also has mortuary, sewage treatment plant, drinking water treatment plant, central kitchen, Central laundry, rain water harvesting

ponds and ETP (Effluent Treatment Plants) etc. The Dental College has 600 dental chairs with built up area of 11,798.08 sq. mtrs. The Dental College and Hospital has 8 laboratories, 9 seminar halls with all audio visual facilities, 4 class rooms, 1 museum etc. Simulator based training programmes have been established in the Dental College in the form of Phantom head lab using simulator mannequins. Nursing skill lab also uses simulator mannequins for teaching nursing students on various nursing procedures. The IT department of the University has hardware and software Divisions. IT infrastructure includes 300 computers, 7 servers, 2000 laptops, 150 printers, 20 scanners etc. University has spent 6369.32 crores for infrastructure development (Furniture, Equipment & Computers) during last four years. University has also subscribed for National Knowledge Networking through which the whole campus has been made Wi-Fi. Rs. 239.2 lakh has been spent for the up-gradation of IT infrastructure.

**Hostels:** There are 9 hostels (men and women) with air-condition facility, attached toilets, microwave, cable T.V, Wi-Fi connectivity and security camera etc. In the last five years, there has been a rapid growth and augmentation of infrastructure to meet the standards in the changing global educational scenario. A new state-of-the-art International UG and PG Hostel (**Gardyenia**), which can accommodate more than 1000 students was established in 2011. The **Meridyen** is a prefabricated residential complex and a first of its kind in the state, for PG and Faculty. The facilities in these hostels and residential complex include A/C, Refrigerator, DTH, Microwave oven, Gas connection, Internet, RO drinking water, laundry, Coffee shop and Jogging track. Free transport for faculty, students and staff is provided for daily commuters from the city and within the campus. In order to provide hygienic and nutritious food to all the resident students, day scholars, resident faculty and inpatients of the

hospital, the University has established a **Central Kitchen** with state-of-the-art mechanization capable of preparing food for 15000 persons at any given time. The Laundry needs of the resident students, faculty and patients, are taken care by the ultra-modern heavy duty, semi-automated **Central laundry facility**. Indoor **Sports Complex (The Yendurance Zone)** and outdoor sport complex and indoor auditoriums help in the holistic development of the students and provide opportunity for extracurricular activities including sports.

**The Central Library** of the university is the knowledge hub. It has a collection of over 13500 books, 200 print journals and access to around 13000 online resources. It has a separate Digital section with 70 work stations with connectivity to HELINET, DELNET, MEDLINE, CINHAI PLUS, and Cochrane Library. A total of 1700 students from the Minority community have graduated from the University in last five years.

### **Environment:**

#### **Yenepoya University Environment Centre**

Yenepoya University is an environment friendly campus. The eco-friendly stance is seen in the University's commitment as a no smoking, plastic free, clean and green campus. The University is committed on reducing the impact of healthcare activities on the environment and conservation of biodiversity in the campus. The University believes in scientific waste disposal to limit the impact on the environment and society. The waste generated is segregated in different colour coded bins. Vegetable waste from kitchen and garden waste is converted into vermicompost. The water is sourced from bore wells and rain water harvesting pond. The water harvesting pond can hold approximately, 3 crore litre of water during the rainy season. The bore wells are charged due to the pond and therefore, University has adequate water supply during the lean period. The University has adequate facility for wastewater treatment. Hospital

effluent is treated with disinfection treatment plant and hospital sewage is treated in the sewage treatment plant. The treated water is used for flushing and plant irrigation. The entire hot water requirement of the hostels is met with solar panels to generate hot water. The campus has a well maintained Arecanut plantation. The medicinal plant garden functions as an educational display of medicinal plants and also as a conservatory source of standard specimens. The brick pathways which crisscross the half acre garden provide easy access for visitors to see the labeled plants. The concept of the garden is unique where the plants are being grown in brick enclosures which are shaped to resemble the parts of the human body to which the particular plant is useful, such as eye, ear, heart, liver, lungs, kidney, uterus, intestine etc. There are about 95 species of medicinal plants in this garden. All the plants are labeled with their scientific name, local name, parts used and their medicinal properties. The university sincerely continues to implement the vision, mission, goals and objectives of the University and has been continuously improving facilities for teaching, research and health care.

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