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## Preface

The Narayana Educational group was founded by Dr. P. Narayana, gold medalist and doctorate in Statistics from Sri Venkateswara University, Tirupati, and Andhra Pradesh. The Narayana Educational group provides primary to higher education including professional education i.e. Medical, Engineering, Dental, Pharmacy, Physiotherapy and Teacher training. Today, the Narayana Educational group has its presence in various states of the country i.e. Andhra Pradesh, Delhi, Gujarat, Haryana, Uttarpradesh, Bihar, Orissa, Jharkhand, Utterakhand and Rajasthan. Narayana Educational group has 27000 Faculty, Staff catering to 2, 20,000 students across the country.

With three decades of managerial experience in the area of education, Dr. P. Narayana founded Narayana Medical College in August 1999. It endeavors to provide most modern medical education and quality healthcare to the rural and remote areas predominantly socio economically disadvantaged population.

Narayana Medical College is a self financing institution. It is affiliated to Dr. NTR University of Health Sciences, Vijayawada, AP. It is built in a large area spread over 136 acres of land. The college is ideally located on Chennai – Kolkata four line national highway. It can be accessed through 2-3 hrs of road journey from Tirupati and Chennai Airports. The institution has ideal ambience for pursuit of medical education, research and congenial eco-friendly atmosphere for patient care. Super specialty services like cardiology, Nephrology, C-T surgery, Oncology, Gastroenterology, Plastic and Cosmetology surgery, Endocrinology and Pediatric surgery , Neurology & Neurosurgery also being available with our hospital.

The institution in addition to providing advanced medical education and Hospital Services, offers comprehensive health care services to rural population. Epidemiological studies, animal experimentation, Drug trials, advanced molecular studies in laboratories are done. Institution is also focusing on preventive aspects of diseases. In a nut shell, the institution intends to be a global leader in health care education, service and research.



# **Executive Summary and SWOC Analysis**



## Executive Summary and SWOC Analyses

### Introduction

Name and Address of the Institution: Name: **Narayana Medical College**, Address: **Chinthareddypalem, Nellore**, City: Nellore, Pin: 524003 State: Andhra Pradesh Website: [www.narayanamedicalcollege.com](http://www.narayanamedicalcollege.com) Status of the Institution: Affiliated College, Type of University : Affiliating, Type of College : Medicine ,Source of funding : Self-financing, Date of establishment of the institution: 1999-2000 ,the institute is affiliated to: Dr. NTR University of Health Sciences, Vijayawada. The institution has no off-campus centers. Location of the campus and area: Main campus area Location Rural Campus area in 28.92 acres Built up area in sq. mts. 1,49,681.9 sq. mts. Other campuses in the country Nil Campuses abroad: Nil. The institution conform to the specification of Degrees as enlisted by the Medical Council Of India New Delhi, Academic programs offered and student enrolment: (Enclose the list of academic programs offered and approval / recognition details issued by the statutory body governing the program

Programs	Number of Programs	Number of students enrolled
UG	MBBS	250
PG	MD(Anatomy)	3
	MD(Physiology)	3
	MD(Biochemistry)	3
	MD(Pharmacology)	3
	MD(Pathology)	4
	MD(Microbiology)	2
	MD(Forensic Medicine)	2
	MD(Community Medicine)	3



	MD(General Medicine)	8
	MD(Tb & Rd)	3
	MD(Dvl)	5
	MD(Psychiatry)	3
	MD(Paediatics)	7
	Ms(General Surgery)	12
	MS(Orthopaedics)	8
	MSOphthalmology)	4
	MS(ENT)	4
	MD(Radiology)	6
	MD(Anaesthesiology)	8
	MD(Obstetric & Gynaecology)	7
	MD(Hospital Administration)	6
	MD(Emerency Medicine)	2
Ph.D		2
PG Diploma	Diploma in Child Health	2
	Diploma in Orthopaedics	1
	Diploma in Medical Radio Diagnosis	4
	Diploma in Obstetrics & Gynaecology	2
D.M./M.Ch.	DM(Cardiology)	2
	DM(Neurology)	2





	DM(Nephrology)	2
	DM(Medical Gastroenterology)	2
	DM(Endocrinology)	2
	M.Ch(Urology)	2
	M.Ch(Neuro Surgery)	2
	M.Ch(Surgical Gastroenteriology)	2
Total		383

Students on campus -UG-Male 359,Female 491,total 850, PG-Male 200,Female 145,Total 345,2nd PG-Male 41,Female 6, Total 47,Total-Male 600, Total Female 642, Total 1242.List of teaching faculty-Professor-M 73,F 18,T91,Associate Professor-M 54,F 12,T 66,Assistant Professor-M 93,F 41,T 134,Tutor-M 24,F 26,T 50, TOTAL,M 244,F 97,T 341. Non teaching- Technical staff-960, non teaching staff-1173.The institute has submitted the list of academic programs offered and approval / recognition details issued by the statutory body governing the programs. The list of departments are – Anatomy, Physiology, Biochemistry, Pharmacology, Pathology, Microbiology, Forensic Medicine, Community Medicine, General Medicine, Emergency Medicine, T.B. & R.D, D.V.L., Psychiatry, Pediatrics, General Surgery, Orthopedics, ENT, Ophthalmology, Anesthesiology, Obst. & Gynecology, Radiology, Hospital Administration, Endocrinology, Neurology, Cardiology, Medical, Gastroenterology, Nephrology, Urology, Neuro Surgery, Surgical gastroenterology The college provides- Auditorium/ with infrastructural facilities , Sports facilities-Outdoor: , Indoor, Residential facilities for faculty and non-teaching staff, Cafeteria , Outpatient facility , Inpatient facility Ambulance facility ,Emergency care facility Facilities like banking, post office and book shops, Transport facilities to both the students and staff , Facilities for persons with disabilities , Incinerator for laboratories , Power house ,Fire safety measures , Waste management facility, particularly bio-hazardous waste , Potable water and water treatment



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## **Executive Summary of Criterion-wise Evaluative Report and SWOC Analyses**

### **CRITERION I: CURRICULAR ASPECTS**

The goals of the institution are to serve the community with human health care education, service & research, and to contribute general, specialized and advanced learned healthcare professionals to the community. These goals are accomplished by establishing a tertiary health care medical college hospital which provides facilities for under graduate's education in MBBS, Post graduate & super specialty and advanced tertiary healthcare services of global standard. The college provides one-Undergraduate Program MBBS, 22 Postgraduate Programs Including MD/MS/, 4-PG Diploma, and 4 research programmes, leading to Ph.D. The college is affiliated to DR.NTR University of Health Sciences. This University complies with the Medical Council of India guidelines and has implemented the curriculum for academic programmes, The committee for annual calendar of events rigourously plans and implements the varied academic and administrative activities, All the departments have curriculum committee and review the curriculum of varied universities, feed backs from learner, apex body guidelines and identify the gaps of the curriculum; design problem based learning, Enrichment courses to meet the curriculum deficiencies, The institution follows annual system and permits inter institutional credit transfer as per the apex body guidelines. The institute provides global competencies to learner through varied learning experiences. Value added courses, problem based learning is implemented in all the courses, The total of 472 -PBL, 258- Enrichment courses are implemented by the institute, The curriculum design considers entrepreneurship, employability and overall personal development for the learner be fitting to the profession, The college has implemented a comprehensive feedback which considers the suggestions and recommendations by different stake holders including student's parents, patients & such others.



## Criterion –II TEACHING-LEARNING AND EVALUATION

The admission process is widely publicized through Newspapers, Media, Website, Prospectus and in Students handbook. The admission process is transparent and as per the guidelines, regulatory authorities, students enrollment category wise analyzed after admissions are finalized and reviewed once in a year regularly, the college conducts induction courses for the new entry students also identifies slow learners and special able students the college conducts appropriate classes in regional languages and English for the needy. Committee for mentorship is established need based counseling is provided for the slow learners advanced learners are provided with the challenging task. The college rigidly follows academic calendar of the Affiliating University and has prepared micro schedule. Annual calendar, the lesson plans, teacher topic time table are prepared the teaching learning process involves varied learning experiences teacher self appraisal, student feedback, self directed learning, assisted learning; experimental learning and such other methodologies including seminars symposium and tutorials are provided. Library resources are upgraded, all laboratories, museums provide wider learning experiences. Students and teachers are trained in working knowledge of computers. Students are informed of the evaluation process during induction programs and through student handbook. Continuous performance assessment cards for under graduates and Post graduate log book for PGs implemented to monitor the performance on continuous basis. As a part to enhance the teacher quality, Intensive faculty development activities are initiated namely Conferences / Workshops Conducted 318, Enrichment Courses 258, List of Problem Based Learning 472, List of Journals Subscribed 332 Distinguished Achievements 27,, Dissertation Topic 312, Tutorials 5734, Student Projects 86, List of PowerPoint's In the Dept 9762, List of Journal Clubs Conducted 4485, List Of Seminars Conducted 7237, List Of Major Tool Kits/Equipment 2864, Clinicles Conducted 9044, List Of Specialty Clinics 2082, List Of Guest /Invited Lectures/Resource Persons/Key Note Address 184, Membership Of Committees Of University 10, No. Of Pg Guided 533

Practical examinations, review of presentation of dissertation, evaluation are few of the methods used for evaluation. Question banks is prepared by the all the departments. Examination process is transparent and examination hall incorporated appropriate security systems including CCTV cameras. A unique method of result analysis is implemented by the college that identifies areas for improvement in the system. The curriculum promotes the research culture at post graduate level and super specialties. The library & subject dissertation



are mandatory requirement for successful completion of the program. Research committee is established, research seed money for students and faculty, cash awards for distinguished research achievers, sabbatical leave and such other facilities are provided. The Learning outcomes in terms of skills , knowledge, the graduates attributes are well documented by the apex body and implemented by the colleges through Universities

## **Criterion –III. RESEARCH, CONSULTANCY AND EXTENSION**

The college strongly implements the culture of research. The college has constituted an International Committee For Research for its advanced research centre and a committee for research at the college level. The eligible faculty are given seed money to continue the research, sabbatical leave facilities, subject specific journals and ambience conducive for research. Similarly students also carry out research projects. The institute provides state of the art research facilities through advanced research center. Advanced infrastructure and equipments are provided. Research methodology sessions, biostatistics lectures and hands on experience are initiated. This center has MoU with Universities of Texas for promotion of research of global excellence. The college has availed financial grants through ICMR projects, Clinical trials and advanced research of relevance. The institution has established Advanced Research Centre, the performance of the centre is comparable to the institution of national importance. SCRM a unit of ARC, recognized by National Apex Stem cell Committee, Government of India situated at Narayana Medical College Campus, Nellore.

The processes of recognition by National Apex Committee.Narayana Medical Journal (NMJ) is a biannual peer-reviewed journal published by the Narayana Medical College, NMJ publishes original articles that offer significant contributions to knowledge in all the broad and super specialties.Awards72, Faculty Research 276, International Publication 284, National Publication 214, International Presented 28, National Presented 214, Scientific Sessions Chaired, International 6, Scientific Sessions Chaired National 99, Books and Chapters Authored 17, Conferences Attended 501, List Of Approved Guides 161, List Of Ongoing Projects 209, List Of Projects Completed 120. As a part of institutional social responsibility the college maintains active linkages with the community across implementing several of the government schemes for patient welfare. Serving public through RHTC and UHTC –Participation in **GOVT recognized health care programmes** like: **Arogyashri programme**,Govt sponsored insurance scheme for employees of AP state govt ( working and



# NARAYANA MEDICAL COLLEGE

pensioners), **Arogya bhadra** scheme ( AP police ), **Arogya Sahayata** scheme ( proh and excise dept ) ESI corporation, APSRTC. Mobile Medical Unit, school health programme, DBCS Programme, Pulse polio programme, **Narayana Arogya Masthu**: Free surgeries, medicines and food provided for BPL families ( Those not covered under Arogyasri scheme ), An innovative research project ASTHRA ( Application of science and technology for health in rural areas ) **NAACH ( Narayana advanced approach to child health)** **Narayana Prasuthi seva , Supplementary food to pregnant mothers, Supplementary food to pregnant mothers.** Household surveys to assess environment and nutritional status , HIV/AIDS awareness campaign, Participation in school health programme, Hand washing awareness programme, Cancer screening programme, Visit to Anganwadi centers, situated in catchment areas of the hospital, UHCT and RHC during the clinical posting where growth monitoring, health education is given by the students, The institute has MoU with several Universities of India & abroad, the college has availed research funds through ICMR and other clinical trials, few of the faculties have availed National gold Medal for the distinguished contribution in research and service. One faculty has been awarded limca books of world records. The institution ensures active participation of students and faculty in the activities conducted regularly by the NSS unit of the college like rallies, awareness campaigns, polio immunization activities etc. such 17 activities are conducted by NSS. Faculties provide expertise to other hospitals and nursing homes in designing, establishing diagnostic facilities and operation theatres. The clinical departments carry out consultancies based on their expertise to the hospitals: Contributions of NMCH to institutional social responsibility include : Medical camps stakeholders are sensitized regarding social responsibilities-few such areas are, Help Kashmeer, fight against female foeticide, Swatch –Bharat, stop alcohol , patriotism, national integration, sexual harassment elimination, anti tobacco campaign, anti ragging, blood donation , antidowry, carbon neutrality, environment conscious activities, green audit, , HIV Prevention, alternate fuels , intellectual property rights (IPR) ,(RTI) and such similar activities.

## Criterion-IV. Infrastructure and Learning Resources –

The infrastructure committee evaluate the needs of Infrastructure required and adequate facilities for teaching and learning process. **Lecturer galleries**—There are 5 Air condition lecture theaters of gallery type with seating capacity of 300 students each. All lecturer theaters are provided with independent AV aids. Clinical lecture gallery with 300 seating capacity is available in the Hospital. The lecture theaters are shared by all the departments in

**Chinthareddypalem, Nellore - 524003, A.P. India**



programmed manner. All Lecture Halls are smart class rooms having e-learning and virtual class facility. The other facilities provided are Staff Rooms, Common Room for Students, Day Care Centre, Rest Rooms, Vehicle Parking, Guest House, Drinking Water Canteen, Internet Café, Transport, and Telephone and faculty quarters. The college meets the needs of the physically disabled students by providing wheel chair, lift and physical assistance to meet the specific needs. **Gymnasium:-** A fully equipped Gym has been established in the college campus and the coach is available in the Gym for guidance. The Gym is kept open from 5.30 A.M to 9.30 A.M In the Morning and from 4.30 P.M to 9.30 P.M in the Evening, -Tread\_Mill, Multi\_Functional, Elliptical Trainer, Crunch\_Bench, Stretch\_Machine, Bicep\_Cure, Roman Chair, **Outdoor stadia:-** Two Volley Ball Courts one for men and another for women have been constructed with international standards.

Two Basket Ball Courts, two table tennis courts one each for male and female and a common Lawn Tennis, with synthetic flooring and flood lights are provided. A track of 400 meters and also with eight lanes is provided. A cricket stadium, with turf pitch is available. Khabaddi and kho – kho games standard measurements. **Indoor Facilities:-** Carom Boards and chess Boards are Available for both men and women. **Details of laboratories. Anatomy:** Dissection of 500, Museum of 300 Sq.m. Embryology room, **Physiology:** Amphibian Laboratory of 300 Sq.m. Mammalian Laboratory of 120 Sq.m., Hematology Laboratory of 375 Sq.m. **Biochemistry:** A Laboratory 300 Sq.m. **Pharmacology:** Experimental Pharmacology, Clinical Pharmacology of 375 Sq.m. Museum of 300 Sq.m., **Pathology:** Histopathology Laboratory of 375 Sq.m. Cytopathology Laboratory 375 Sq.m. **community Medicine:** Laboratory 375 Sq.m. **Microbiology:** Laboratory 375 Sq.m. Independent Laboratory 275 Sq.m. having Forensic histopathology, Serology, Anthropology. Museum 225 Sq.m. **Clinical Learning Resources -Teaching Hospital** -The hospital was established in 1999 -2000 and located in same premises. This is owned by the management. it has 1560 beds and provides 14 specialty services and super specialty services provided are Cardiology, cardiothoracic and vascular surgery, Neurology, Neurosurgery, Nephrology, Urology, surgical Gastroenterology, Medical Gastroenterology, Medical endocrinology, Plastic surgery, Number of beds in ICU/ICCU /PICU /NICU ; ICU 24, ICCU 12, PICU 8, NICU 8 Beds, Number of operation theatres; 22

Cardiac ICU and Neurosurgery ICU, diagnostic service departments; Radiology; well equipped starting with X-Ray, ultra sound, colour Doppler, mammography, Two Ct scans and Two MRI scans. Cardiology; ECG, Echo, TMT and CATH LAB, Neuro diagnostics like



EEG and EMNG lab and Gastro with Endo scopy and video endoscopy ,Pulmonology with PFT and Bronchoscopy and sleep lab. Clinical laboratories; the central laboratories with clinical Biochemistry, clinical pathology and Microbiology with automated equipment and 24 hrs support to clinical departments. Service areas VIZ. Mechanized Laundry, kitchen catering to both General ward provided with free meals For insurance patients to the bed side and canteen to patient attendees, visitors Well equipped CSSD with quality monitoring of records and maintenance of equipment, Backup power supply with 1000 and two 500 kv generators, Air conditions Both central, split and window, AC plant, Manifold Rooms with Liquid oxygen plant ,Pharmacy services; covers both OPD and IP areas and 24 hr outlet near emergency. Blood bank services; Services provided-Whole blood, Packed red cells, Fresh frozen plasma, Platelet concentrate ,Cryoprecipitate , Platelet pheresis ,Donor grouping ,Patient & Donor grouping, cross matching, Screening for viral diseases on collected blood units.

**Instrument**-Blood Collection Monitor – 1 -4, Aphaeresis Machine, Tube Sealer – 1 Nos., Table Top Centrifuge, Bio-Rad Incubator, Bio-Rad Centrifuge, ELISA Washer, ELISA Reader, Incubator 37<sup>0</sup>C,-80<sup>0</sup>C freezer,- 40<sup>0</sup>C freezer, Blood bank refrigerator – 1 (Screened packed red cells),Blood bank refrigerator – 2 (Unscreened),Blood bank refrigerator – 3 (Screened whole blood),Platelet agitator (Unscreened),Platelet agitator (Screened),Plasma Thawing bath,Cryo-Bath,Refrigerated Centrifuge, Tube sealer – 1, Sterile Connecting Device, Blood Bag Weighing Scale, Laminar flow, Central Monitoring System,Autoclave,Hot-Air Oven.Thermo scientific Pipette 5-50µl,Thermoscientific Pipette 5-50µl,Thermoscientific Pipette 100 µl,Thermoscientific Pipette 20-200 µl,Thermoscientific Pipette 30-300 l Thermoscientific Pipette 100-1000 µl,Thermoscientific Pipette 1000 µl,Biosystem Pipette 100 µl, **Enhanced Chemiluminiscence – Ortho Clinical Diagnostics (J&J)**, whole blood and components available , a qualified person MD Transfusion Medicine is available. Pharmacovigilance, Mortuary, cold storage facility; available which is monitored by the security and Administrator and they facilitate the needy with respect to the deceased. Hospital display the services provide free of cost. Mechanism for redressal of complaints made by patient's attended through complaint box, feedback mechanism present . The hospital display charges levied for the paid services. The names of the faculty and their fields of specialization displayed prominently in the hospital. Pictorial representation of the various areas of the hospital displayed in a manner to be understood by illiterate patients. Display of





ante-natal, mother and child health care facilities at prominent locations, Patients rights education boards, leaflets are provided at appropriate locations.

Hospital has the proper mechanism to obtain informed consent .The hospital has well-defined policies for prevention of hospital-acquired infections. the hospital have effective systems for disposal of bio-hazardous waste approved by regulatory authorities ,state of the art safety systems are deployed. Campus management feedbacks, service management feedback are used to improve the facility on continual basis. The college is Unique in providing undergraduate, post graduate , super specialties and research, programs , and the learner is provided with excellent learning experiences across the campus throughout the programs .and and is the unique strength of the organization The Institution has a Rural Health Center at village Venkatachalam, 20 Km from the College. There are four sub-centers under the RHC. The population under our RHC is about 30000. In the Center, about 60 to 100 patients avail services every day. The Center provides Medicare including emergency care, laboratory investigations of urine, sputum, blood etc. Tests to detect HIV, HBsAg, Urea, Sugar, Pregnancy, malaria etc are done. Interns and postgraduates are rotated here, as per the guide lines of MCI. Specialist camps are provided on regular basis. Health and Awareness camps are also provided. Family Health Folders are prepared and maintained.The Institution has an Urban Health Centre at Saraswathi Nagar, Nellore. It also covers a population of about 30000. The above mentioned services and facilities apply to UHC also, except that, it is not a residential posting for the Interns..The college constituted a **Library Advisory Committee**. Total area of the library (in Sq. Mts.),Total Central Library area: 4200 Sqmt.,Total area for Medical wing: 2800 Sqmt.,Total seating capacity,Seating capacity in the central library : 778,stack area - 1 : 96 ,Stack area – 2 : 60stack area - 3 : 48 ,staff reading area : 24,first : 120 ,second floor : 250,p g reading area :50,journals reading area : 80,internet & digital library : 50.Working hours (on working days, on holidays, before examination, during Examination, during vacation)-All working days: 6.00 am to 12.00 midnight, One month before the examination period:24 hours, Sundays / Holidays: 9.00 am to 1.00 pm, Layout of the library (individual reading carrels, lounge area for browsing And relaxed reading, IT zone for accessing e-resources). The LRC includes a stack area, undergraduate and postgraduate areas, faculty & students lounge, internet browsing centre, audio-visual room, circulation counter, photocopy section, and ‘Group think’ for discussions., IT zone for accessing e-resources like,Proquest: **Proquest** is the database containing e-journals and evidence base learning for more than 350 publications,**Ebsco** Medical: It is also a database containing e-journals for





more than 150 publications, Elsevier: Elsevier is the database containing e-journals for more than 50 publications. Clear and prominent display of floor plan; adequate sign boards; fire alarm; Access to differently-abled users and mode of access to collection are available. Fire extinguishers at exits are available for all areas in the library for emergency. Adequate signage directs the users to the collection. **The library holdings:** Books – 24792, Journals - (227(Foreign & Indian)printed & 1100 e-journals), Magazines – 4, News Papers – 3(Eenadu, Andhrajyothi, The Hindu), Back volumes – 1020 Volumes (Issues – 12155), Thesis - 180 , Average number of books added during the last three years 1173, 886, 8674. Electronic (e-books, e-journals)-PROQUEST: 1194, EBSCO Medical: 2120, Special collections-Yes. Thesis and Dissertations, Monographs, journal back volumes in pdf format etc. Book bank, Question bank facilities present LRC (Library Resource Committee) services are automated through a software program called **Library Information Systems (LIS)**, Designed & developed by our college software team. The LIS has the Online Publication Access Catalogue (OPAC) module for easy access to the LRC material. Total number of computers for general access 50, Total numbers of printers for general access 02, Internet band width speed  $\geq 10$  mbps . **Institutional Repository** -the college library commenced institutional Digital Repository, assembling together e-copies of PDFs of journal articles/theses, class lecture notes (Medrc smarteach), PowerPoint presentations, etc., for access by all members of the college. The Digital Repository is accessible on the college intranet using the college IP address and allows computer-based access and search to extensive amounts of college teaching-learning and scholarly material such as published papers, dissertations and e-books. **Content management system for e-learning**-Several materials developed by the college for modules, are accessible to students using an username and password on the college's website: [www.narayanamedicalcollege.com](http://www.narayanamedicalcollege.com). **Participation in resource sharing networks/Consortia (like INFLIBNET)** Yes. The college participates in resource sharing networks/consortia such as NTRMEDNET Consortium(through it affiliating university, the NTRUHS) Available resources(Proquest,Ebsco,Elsevier),The library does not per se provide specialized services in relation to manuscript preparation and submission; however, research-experienced faculty members usually assist other faculty members and students in this process.About 30 % of total books are reference books; dictionaries, encyclopedia etc. are available. The LRC includes a reprography/printing/scanning facility.**Clinicals Conducted Information Deployment and Notification**-Available, Information on current Affairs, Employment Opportunities and Competitive exams deployed and notified for the benefit of



the students. **Clinicals Conducted OPACS-**As aforementioned, the LIS (Library Information System) an updated version of which has been installed in the preceding five years. The OPAC module has an option to view the new arrivals in the LRC. **Clinicals Conducted Internet Access-**The College and the LRC provide internet access of 10 Mbps 1:1(leased line) band width. Available, Computers & Printer are used to draw information through Internet. Internet browsing facility is available for users from 9:00am to 10:00pm in the IT Lab. Facility to download and print online resource is available. **User Orientation-**Available, the fresh batch of students & New faculty admitted are given an orientation program Computer browsing for internet access and downloading of interesting material like e-resource, Library resources, infrastructure facilities, time schedule, circulation of Books, assistance rendered by the library staff. Assistance in searching Databases-Available, Reference services and referral services are provide to all users by Library staff. INFLIBNET/HELINET-NTRMEDNET is made available. Year wise Budget utilized for last five years for 2010-2011-Rs.8169043, 2011-2012-Rs.6898143, 2012-2013-Rs.9015977, 2013-2014-Rs.8763184, 2014-2015-Rs.17184982. The feedback from the users is obtained by suggestion/complaint box and feedback form, consolidated and appropriate action is initiated by the Library committee. 30 New computer systems along with new furniture for the internet labs have been purchased, CCTVs with cameras and T.V. screen Biometric system adopted .The institution has a *comprehensive IT* policy with regard to--

**Hospital Management System-**A hospital information system is an element of health informatics that focuses mainly on the administrative need of hospitals. **-Student Information System-** Student management system is a management information system for education establishments to manage student data. Student Information Systems (often abbreviated as SIS systems-**Library Information system**---Library management system provides all the necessary information about all the books.**Biometric management system.** It uses fingerprint instead of card system for access.it allows us to capture the real time attendance.**LAN Protection Software-**Software used high secured password policy. User Privileges applied. **Network Security** is an organization's strategy and provisions for ensuring the **security** of its assets and of all **network** traffic. **Network security** is manifested in an implementation of **security** policy, hardware, and software. **Risk Management** -Daily Backup to Remote servers, Daily backup to Tapes, Weekly Backup to Tapes, Using NAS drives for backup, Using Fireproof boxes for storage.**Software Asset Management,** Software Asset management is for immediate stock verification and vulnerability details.



**Open Source Resources-OS ticket** -Open source software used to raise and solve the tickets from the clients.It seamlessly routes inquiries created via email, web-forms and phone calls into a simple, easy-to-use, multi-user, web-based customer support platform. **Green Computing**-NAS boxes using for low power usage,. Paperless Hospitality services., **Institution's computing facilities** i.e., hardware and software. Number of systems with individual configurations -450 PC with following configuration,300 Dual Core 1GB Ram with 500GB HDD,110 Dual Core 2 GB Ram with 500GB HDD,40 i3 2GB Ram with 1 TB HDD, Computer-student ratio,1:2,Dedicated computing facilities, e-Journal access to students. An electronic journal is a periodical publication which is published in electronic format, usually on the Internet. Electronic journals have several advantages over traditional printed journals: You can search the contents pages and/or the full text of journals to find articles on a certain subject. We procured journal from NTRMEDNET consortium i.e Proquest and ebscohost, using userid and password they are facilitating students to access ejournals. Wi-Fi facility, LAN facility-Manageable switches used for bandwidth consuming clients,Cat-6 LAN cables are used for high reliability in operation, TM filtered data for more secured and robust network, Wi-Fi facility -Bandwidth 60 mbps leased line 1:1 dedicated, open to all students and staff 24x7,Uninterrupted service provided, High end equipment's used for least downtime. Proprietary software, Licensed operating system, application software, anti-viruses. Number of nodes/ computers with internet facility-450 Nodes .Smart Class Room to nearly all departments ,Fiber net connectivity to reach all students and teachers, Smart Class Room ,LCD Projectors ,Computers / 1 Laptop to each Department for teachers, Internet facility up to smart class room. Internet facility to tables of teachers, Free access to many International & National Journals through Infilbnet, Annual budget provided for enhancing the resources is 50 lakhs (Approx.)

## **Criterion- V: Student Support and Progression**

A System of mentor-mentee practiced to cater to the needs of different learners. Book bank facility for students' projects Seed money is provided. - Single window admissions for Anti-ragging cell, Career counseling, are provided. Institution provides strong encouragement for cultural activities, academics, research, sports and overall personality development as applicable to profession. Alumni association is active and registered. Active elected student council with cross section of students representation present .Deviated Behaviors of learner are dealt by Behavior cell . Student progression on continuous basis monitored. Parent teacher meets are organized, Student Insurance, Counseling, Health Care facilities,



Gymnasium on campus, cafeteria are present on the campus-. Student feedback, placement cell, , Student charter, , Grievance Redressal Cell, book bank, sexual harassment elimination Cell, Student handbook, under performers identification and remedial drill, Value added courses, Continuous Performance Assessments Cards, Facilities for differently –abled and physically challenged are present. Every possible effort is made to meet the learner needs. *Student welfare measures* - , scholarships, are initiated, Specific student support is provided for, Physically Disabled and SC, ST, OBC, economically weaker sections. The college monitors the Enrolment of student's year wise progress and has maintained details of last five years, program wise. The College has a review mechanism to monitor progression of students in various programs, increase its pass percentage, reduce its dropout rate , and timely submission of post graduate theses. The college has procured a total of 59 ranks at the affiliated university in last four years. the college also maintained track of students appearing and qualifying in competitive examinations, data is tracked.. Students are represented on administrative and academic bodies through the committees that are monitored by respective Associate Deans. Alumni Association is established. Conducted technical update program for Alumni'. The college practices stake holder- college partnership for excellence in education, service and research. -Proficient sports students are provided with appropriate sport materials, remuneration, leave, recognition on appropriate plat forms, awards and certificates. Student council in each unit is very active and perform numerous co-curricular and cultural activities. The college funds such activities. Feed backs from students-The institution obtain feed from students on their campus experience, infrastructure, teachers performance library users and academics. Parents meet are conducted regularly. Students participate in quality governance through internal quality assurance system and feedback mechanisms. College encourages students to publish materials like catalogues, college magazines, institution magazines. Student participation in state, national and international level sports events range of games, extra-curricular activities are provided. Strong encouragement for sports, cultural and co curricular activities is evident

## **Criterion-VI. Governance and Leadership**

The Institution has developed the Vision & Mission Statement by involving the various stakeholders at different levels meetings and discussions. Those finalized statements are well deployed across the institution in prominent places and also in prospectus, handbook, website and such other similar places. The Principal is the head of the Institution and is well supported by four Associate Deans viz., Associate Dean-Academic, Administration,



Examination and Human Resources. The effectiveness of the leadership and governance is reflected in this decentralized administration. The Institutional performance in different constituents of the system are reviewed by the mission monitoring cell for which the Principal is the Principal Secretary. Appropriate sanctions are given for the recommendations made by the IQAC through Principal. Mission Monitoring Cell reviews the activities of the Institution at regular intervals. All the Departments are headed by a senior competent faculty. The Heads of the Departments and Unit Heads and the non-teaching are provided with appropriate autonomy, empowerment, and proportional to their accountability of department performance in education, service and research. All the Departments have prepared perspective plan document from the source data generated from SWOC Analysis and have drawn strategic plans to implement such analysis. The perspective plan document incorporates important strategies and actions to be implemented through well decentralized organizational structure. Committee for policies procedure and practice monitors and evaluate for the institution committees and departments, plans and actions to implement, Bench Marks are arrived at for each important area which affects the quality of the product. Factual data are considered for decision making. The organizational structure has processes defined for various activities. The feedback system has mechanism in place of quality analysis on curriculum, program, enrichment courses, library, teacher performance, infrastructure by students and service feed back by patients. These feedbacks are analyzed and outcome is utilized by respective committees to arrive at a decision and action plans. The quality policies are deployed with a systems perspective and have identified input and outcome processes. The Calendar and Schedules for the events of the institution are well planned and deployed appropriately. The departmental performances in varied activities are done through academic audit by monthly feedback proforma by all departments. Stakeholders satisfaction survey and students and patient satisfaction survey are important inputs for policy framing and decision making. The institution exceeds the recruitment and promotional needs of the manpower. Necessary guidelines on Government Policies in recruitment including access equity specially abled and gender sensitivity are adopted. The Faculty and Non-Teaching Staff Welfare Committee has initiated all such welfare activities for both teaching and non-teaching staff. Committee for faculty development activities, self-performance appraisal are collected from the faculty from which the need for professional training and such other decisions are met by Associate Dean-Human Resources. Faculties competency is continuously improved on regular basis through availing academic and



curricular activities. Budget is provided for all core activities and utilized, there is a mechanism on the campus for gender auditing. Ample of professional department activities are initiated in all the departments. The Institution provides budget for all such core activities and has made efforts for resource mobilization as a mechanism for internal and external audit. The Institution has maintained reserve corpus fund. The Institution has developed quality manual and has arrived quality performance indicators for each Committee under IQAC. Associate Dean-Academics reviews the teaching learning process, learning outcomes, teaching methods, teacher quality and such other details periodically. The IQAC has institutionalized notifying the key aspects, performance guidelines and assessment of the performance of the process in the system. All the departments are provided with appropriate autonomy.

## CRITERION VII: INNOVATIONS AND BEST PRACTICES

*Environment Consciousness*-The institution displays sensitivity to issues like climate change and environmental issues. Has conducted extensive activities and is separately reported as extension activities manual. The activities fall under Use of renewable energy: *Water harvesting*. Bio-hazardous waste management, waste management. eco-friendly campus, E-waste management. Few of the *innovations* are -Innovations Continuous performance assessment cards, The college collects feedback from varied stakeholders, College has well planned schedules from University to teacher topic time table to implement the curriculum,. Admission process and enrollment are as per the regulatory guidelines is transparent and computerized, Library and library resources are computerized and is monitored regularly for quality parameters, An unique result analyses method identifies course index, program index and improves on continuous basis, The college has conducted commendable extension activities including activities for social responsibilities, Established internal quality assurance cell (IQAC). College has developed SWOC Analyses .Faculty Developmental Activities, Feedback Analysis from Students Conducted Free health camps in surrounding towns /villages, teachers training programme, Parents- teachers meet. Free of cost treatment for all patients. Rural and urban health centre to provide treatment for the needy people. Student research activities, attending national & International Conferences, Conducting CME programs & National level conferences, ,Conducting various extracurricular & sports activities for the students ,Collaboration with the other universities in the country and abroad., The college has implemented and claimed two best practices





## SWOC Analyses

### Strengths

The institution is affiliated to Dr.NTR University of health sciences and recognized by Medical Council of India, New Delhi, offers programs in undergraduate ,post graduation ,postgraduate diplomas ,super specialties and research. The college conducts enrichment courses; problem based learning which are identified and designed by the college to meet the curriculum deficiencies .The college collects feedbacks from students & stakeholders for the improvement in major constituent processes of the system.CPA cards, ICT, Wifi facilities form Innovative teaching and learning process. The college caters to diverse the needs of learner by identifying and counseling the slow learners and mentorship. Varied learning experiences are provided to accomplish learning outcomes in a learner. Research is initiated by eligible faculties, & students are involved in projects. The College publishes its own academic journal, has published a good number of publications, and has significant contributions in extension activities and institutional social responsibility. Excellent physical facilities, library resources and ICT facilities add to the quality resources for independent learning by the students. Decentralized administration & customers participation are involved in decision making. Biometric Attendance for the faculty members as available Good teacher quality meets the regulatory requirements, numerous faculty development activities, College provides student insurance, CCTV, book bank facilities, strong encouragement for sports and cultural activities.

### Weaknesses

Areas for improvement are identified by IQAC, & action initiated for continuous improvement. Weakness gets rectified on continuous bases.

### Opportunity

Quality system getting certified by national and international agencies. Getting the institution autonomous and deemed to be university status

### Challenges

- To maintain the competitiveness of the system in quality at lesser cost.
- To get funding resource to foster the research of global relevance and need is a challenge

## Recognitions

Indo Healthcare Summit 2015 – Indus Foundation USA and Hon'ble Governor of Andhra Pradesh Sri. Narasimham has presented



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Best Education Training Institution Award to Narayana Medical College and Hospitals.

2. Dr. Katochi, Spl. Secretary to Government of India and ICMR Director General has awarded Gold medal award to Dr. Pradeep, Surgical Endocrinologist, Narayana Medical College and Hospital.

3. Memorandum of understanding with University of North Texas and research work on Vanadium and thrombosis is being done.

4. PMT assessment in 2013, Narayana Medical College stands No: 12 of the Top 100 Medical Colleges.

5-6 Citation Performance of the Neurology training institution in India Narayana Medical College & Hospital is in 15th position and in Neurosurgery is 13th position, where as JIPMER, Pondicherry is in 15th position. -

7-11 Department of Gynaecology & Obstetrics Narayana Medical College & Hospital and Professor Hymavathi name is extended in Limca Book of records 2015 and also Miracles of world records.

12. Invitation has been extended to the Director to speak on Indian Science Congress 2014 on “Nutrition and Cardio Vascular diseases and Fortification of food”.

13. DSIR accorded recognition to Narayana Medical College in 2012 and 2015.

14. Director General of ICMR has sent a letter to send expert committee to evaluate and consider Micro Nutrient Research Centre in Narayana Medical College.

15-21. Awards at the University competition Best presentation award 2013. Vikrama Simhapuri University & SV University 2013.





**PROFILE OF THE  
INSTITUTION**

# NARAYANA MEDICAL COLLEGE



## 1. Profile of the Institution

(To provide information whichever is relevant to the HSI)

<b>1.</b>	<b>Name and Address of the Institution:</b>		
<b>I.</b>	<b>Name:</b>	Narayana Medical College	
<b>II.</b>	<b>Address:</b>	Chinthareddypalem, Nellore	
<b>III.</b>	<b>City: Nellore</b>	<b>Pin: 524003</b>	<b>State: Andhra Pradesh</b>
<b>IV.</b>	<b>Website: www.narayanamedicalcollege.com</b>		

<b>2.</b>	<b>For communication:</b>					
<b>I.</b>	<b>Designation</b>	<b>Name</b>	<b>Telephone with STD code</b>	<b>Mobile</b>	<b>Fax</b>	<b>Email</b>
<b>II.</b>	<b>Vice Chancellor</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>
<b>III.</b>	<b>Registrar</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>
<b>IV.</b>	<b>Principal /</b>	Dr.G. Veera Nagi Reddy	O: 0861-2317965 R:0861-2309992	9885417989	0861-2317962	dr.gvnreddy@yahoo.com
<b>V.</b>	<b>Vice Principal</b>	Dr.Venu Gopla Sharma	O: R:	09440365655	0861-2317962	venu_yadati@yahoo.com
	<b>Steering Committee / IQAC Co-ordinator</b>	Dr.P.Sreenivasulu Reddy	O: R:	09848756474	0861-2317962	sr.palukuru@gmail.com

<b>3</b>	<b>Status of the Institution</b>	
<b>I.</b>	<b>Autonomous College</b>	
<b>II.</b>	<b>Constituent College</b>	
<b>III.</b>	<b>Affiliated College</b>	✓

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IV.	State University	
V.	State Private University	
VI.	Central University	
University under Section 3 of UGC (A Deemed to be University)- NA		
Institution of National Importance- NA		
Any other (specify)		

4.	<b>Type of University:</b> Affiliating	
i.	Unitary	
ii.	Affiliating	Dr. NTR University of Health Sciences

5	<b>Type of College:</b>	
I.	Ayurveda	
II.	Dentistry	
III.	Homoeopathy	
IV.	Medicine	✓
V.	Nursing	
VI.	Pharmacy	
VII.	Physiotherapy	
VIII.	Siddha	
IX.	Unani	

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<b>X.</b>	<b>Yoga and Naturopathy</b>	
<b>XI.</b>	<b>Others (specify and provide details)</b>	

<b>6</b>	<b>Source of funding</b>	
I.	Central Government	
II.	State Government	
III.	Grant-in-aid	
IV.	Self-financing	✓
V.	Trust	
VI.	Corporate	
VII.	Any other (specify)	Society

<b>7.a</b>	<b>a. Date of establishment of the institution: ...09-09-1999 (dd/mm/yyyy)</b>				
<b>b</b>	<b>. In the case of university, prior to the establishment of the university, was it a/an</b>				
		YES		NO	
I.	Autonomous College				
II.	Constituent College				
III.	Affiliated College				
IV.	PG Centre				
V.	De novo institution				
VI.	Any other (specify) .....				
<b>c. In the case of college, university to which it is affiliated</b>					
<b>Dr. NTR University of Health Sciences</b>					

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<b>8</b>	<p><b>State the vision and the mission of the institution.</b></p>
	<p><b>Our Vision</b></p> <p>To excel in value based medical education health care, research and technology of global standards enrich with quality, contributing to national development</p> <p><b>Our Mission</b></p> <ul style="list-style-type: none"> <li>○ To provide value based, student centric, community oriented, flexible medical education with continuous evaluation.</li> <li>○ To achieve sustain and further enhance quality medical education. providing access with thrust on quality, involving stake holders.</li> <li>○ To offer ultra affordable health care, integrating AYUSH system with access to rural people in congruence with all national health programs to achieve the goal of “Health for All”.</li> <li>○ To encourage innovative collaborative basic research to benefit the community and enabling the industry to produce cost effective equipments and drugs.</li> <li>○ To stimulate innovation of indigenous technology and to promote technology transfer and optimal utilization of available contemporary technology for teaching, training, health care and research.</li> </ul>

<b>9</b>	<b>a. Details of UGC recognition / subsequent recognition (if applicable):</b>		
	Under Section	Date, Month and Year (dd/mm/yyyy)	Remarks (If any)
	i. 2(f)*	No. Not availed	
	ii. 12B*	No. Not availed	

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iii. 3*	No. Not availed	
Enclose the certificate of recognition, if applicable		

<b>b. Details of recognition/approval by statutory/regulatory bodies other than UGC(MCI, DCI, PCI, INC, RCI, AYUSH, AICTE, etc.)</b>
<b>Details of recognition/approval by statutory/regulatory bodies MCI</b>

Under Section / Clause	Day, Month and Year (dd/mm/yyyy)	Validity	Program/ institution	Remarks
<b>Under Graduate</b>				
10(a)	100 Admissions 1 <sup>st</sup> batch No.U12012/93/99-ME (P) dated: 17.04.2000	1 Year	MBBS  Narayana Medical College, Nellore	
	100 Admissions 2 <sup>nd</sup> batch No.U12012/93/99-ME (P) dated: 02.02.2001	1 Year		
	100 Admissions 3 <sup>rd</sup> batch No.U12012/93/99-ME (P) dated: 17.08.2001	1 Year		
	100 Admissions 4 <sup>th</sup> batch No.U12012/93/99-ME (P) dated:	1 Year		

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	<b>22.05.2002</b>			
	<b>100 Admissions 5<sup>rd</sup> batch</b> <b>No.U12012/93/99-ME (P- II) dated:</b> <b>17.04.2003</b>	<b>1 Year</b>		
	<b>100 Admissions 6<sup>rd</sup> batch</b> <b>No.U12012/93/99-ME (P- II) dated:</b> <b>31.03.2004</b>	<b>1 Year</b>		
	<b>100 Admissions 7<sup>rd</sup> batch</b> <b>No.U12012/93/99-ME (P- II) dated:</b> <b>01.07.2005</b>	<b>1 Year</b>		
<b>100 Admissions Recognition</b>	<b>100 Admissions Recognition</b> <b>No.U12012/93/1994-ME (P- II) dated:</b> <b>17.07.2006</b>	<b>5 Year</b>		
<b>Letter of Permission</b>  <b>100 to 150 increase</b>	<b>100 to 150 Increase of seats 1<sup>st</sup> batch</b> <b>F.No.U12012/189/2005-ME (P- II)</b> <b>dated: 29.06.2007</b>	<b>1 Year</b>		
	<b>100 to 150 Increase of seats 2nd batch</b> <b>F.No.U12012/189/2005-ME (P- II)</b> <b>dated: 9.06.2008</b>	<b>1st year</b>		
	<b>100 to 150 Increase of seats 3<sup>rd</sup> Batch</b> <b>.No.U12012/189/2005-ME (P- II)</b> <b>dated: 09.03.2009</b>	<b>1 Year</b>		
	<b>100 to 150 Increase of seats 4<sup>rd</sup> Batch</b> <b>F.No.U12012/189/2005-ME (P- II)</b> <b>dated: 17.02.2010</b>	<b>1 Year</b>		
	<b>100 to 150 Increase of seats</b>	<b>1 Year</b>		

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	<b>5<sup>rd</sup> Batch</b>  <b>MCI-37(1)/2011-Med8602</b>  <b>dated: 07.05.2011</b>			
	<b>100 to 150 Increase of Recognition</b> <b>.No.U12012/189/2005-ME (P- II)</b> <b>dated: 26.06.2012</b>	<b>5 Year</b>		
<b>Letter of Permission</b>  <b>150 to 250 increase</b>	<b>150 to 250 Increase of Seats Letter of Permission .No.U12012/567/2014-ME (P- II) dated: 21.06.2014</b>	<b>1 Year</b>		
	<b>150 to 250 Increase of Seats Letter of renewal Permission 2<sup>nd</sup> Batch</b> <b>.No.U12012/79/2015-ME (P- II)</b> <b>dated: 21.03.2015</b>	<b>1 Year</b>		
<b>Post Graduate</b>				
<b>Starting Post Graduate Course</b>  <b>11(2)</b>	<b>Letter of Permission Starting PG Course</b>  <b>No.U12012/277/2005-ME (P- II)</b>  <b>Dated: 13.03.2006</b>  <b>1. M.D. DVL - 01</b> <b>2. D.D.V.L - 01</b>	<b>3 Years</b>		
	<b>Letter of Permission Starting PG Course</b>  <b>No.U12012/176/2005-ME (P- II)</b>	<b>3 Years</b>		

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	<b>Dated: 13.03.2006</b>  <b>1. M.D. Microbiology - 01</b>			
	<b>Letter of Permission Starting PG Course</b>  <b>No.U12012/178/2005-ME (P- II)</b>  <b>Dated: 13.03.2006</b>  <b>1. M.D. Paediatrics - 01</b>	<b>3 Years</b>		
	<b>Letter of Permission Starting PG Course</b>  <b>No.U12012/279/2005-ME (P- II)</b>  <b>Dated: 15.03.2006</b>  <b>1. M.S. Orthopaedics - 01</b>	<b>3 Years</b>		
	<b>Letter of Permission Starting PG Course</b>  <b>No.U12012/280/2005-ME (P- II)</b>  <b>Dated: 24.03.2006</b>  <b>1. M.S. Ophthalmology - 01</b> <b>2. D.O - 01</b>	<b>3 Years</b>		
	<b>Letter of Permission Starting PG Course</b>  <b>No.U12012/281/2005-ME (P- II)</b>  <b>Dated: 24.03.2006</b>  <b>1. M.D. OB &amp; GY - 02</b> <b>2. D.G.O - 02</b>	<b>3 Years</b>		

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	<p><b>Letter of Permission Starting PG Course</b></p> <p><b>No.U12012/175/2005-ME (P- II)</b></p> <p><b>Dated: 27.03.2006</b></p> <ol style="list-style-type: none"> <li><b>1. M.D. Radiology - 02</b></li> <li><b>2. DMRD - 02</b></li> <li><b>3. M.D. Anaesthesiology - 02</b></li> <li><b>4. D.A. - 01</b></li> <li><b>5. M.S ENT - 01</b></li> <li><b>6. D.L.O - 01</b></li> <li><b>7. M.D. Pathology - 02</b></li> <li><b>8. D.C.P - 01</b></li> </ol>	<b>3 Years</b>		
	<p><b>Letter of Permission Starting PG Course</b></p> <p><b>No.U12012/176/2005-ME (P- II)</b></p> <p><b>Dated: 27.03.2006</b></p> <ol style="list-style-type: none"> <li><b>1. M.D. Physiology - 03</b></li> <li><b>2. M.D.General Medicine- 06</b></li> <li><b>3. M.S.Anatomy - 03</b></li> <li><b>4. M.D. Biochemistry - 03</b></li> <li><b>5. M.D. Comm. Med - 03</b></li> </ol>	<b>3 Years</b>		
	<p><b>Letter of Permission Starting PG Course</b></p> <p><b>No.U12012/175/2005-ME (P- II)</b></p> <p><b>Dated: 29.03.2006</b></p>	<b>3 Years</b>		

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	<b>1. M.D. Psychiatry - 01</b> <b>2. DPM - 01</b> <b>3. M.D. TB &amp; CD - 01</b> <b>4. D.T.C.D - 01</b>			
	<b>Letter of Permission Starting PG Course</b>  <b>No.U12012/176/2005-ME (P- II)</b>  <b>Dated: 29.03.2006</b>  <b>3. M.S. Gen. Surgery - 06</b>	<b>3Years</b>		
<b>Increase of PG Seats</b>	<b>Letter of Permission increase of PG Course</b>  <b>No.U12012/71/2006-ME (P- II)</b>  <b>Dated: 23.03.2007</b>  <b>1. M.S.Orthopaedics 01 to 03</b>	<b>3 Years</b>		
	<b>Letter of Permission increase of PG Course</b>  <b>No.U12012/280/2006-ME (P- II)</b>  <b>Dated: 23.03.2007</b>  <b>1. M.D.OB &amp; GY 02 to 03</b>	<b>3 Years</b>		
	<b>Letter of Permission increase of PG Course</b>  <b>No.U12012/279/2006-ME (P- II)</b>	<b>3 Years</b>		

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	<b>Dated: 23.03.2007</b>  <b>1. M.D.Paediatrics 02 to 03</b>			
	<b>Letter of Permission increase of PG Course</b>  <b>No.U12012/200/2007-ME (P- II)</b>  <b>Dated: 03.04.2008</b>  <b>1. M.D.Anaesthesiology 02 to 04</b>	<b>3 Years</b>		
	<b>Letter of Permission increase of PG Course</b>  <b>No.U12012/200/2007-ME (P- II)</b>  <b>Dated: 03.04.2008</b>  <b>1. D.A 01 to 02</b>	<b>3 Years</b>		
	<b>Letter of Permission increase of PG Course</b>  <b>No.U12012/199/2007-ME (P- II)</b>  <b>Dated: 03.04.2008</b>  <b>1. M.S.Ophathalmology 01 to 02</b>	<b>3 Years</b>		
	<b>Letter of Permission increase of PG Course</b>  <b>No.U12012/197/2007-ME (P- II)</b>	<b>3 Years</b>		

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	<b>Dated: 03.04.2008</b>  <b>1. M.D. Radiology    02 to 03</b>			
	<b>Letter of Permission increase of PG Course</b>  <b>No.U12012/198/2007-ME (P- II)</b>  <b>Dated: 03.04.2008</b>  <b>1. M.S. ENT    01 to 02</b>	<b>3 Years</b>		
	<b>Letter of Permission increase of PG Course</b>  <b>No.U12012/308/2008-ME (P- II)</b>  <b>Dated: 30.03.2009</b>  <b>1. M.D. TB &amp; RD    01 to 02</b>	<b>3 Years</b>		
	<b>Letter of Permission increase of PG Course</b>  <b>No.U12012/309/2008-ME (P- II)</b>  <b>Dated: 30.03.2009</b>  <b>1. M.D. Radiology    03 to 04</b> <b>2. D.M.R.D    02 to 04</b>	<b>3 Years</b>		
	<b>Letter of Permission increase of PG Course</b>	<b>3 Years</b>		

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	<b>No.U12012/307/2008-ME (P- II)</b>  <b>Dated: 30.03.2009</b>  <b>1. M.D. Psychiatry 01 to 02</b>			
<b>Starting</b>  <b>Post</b>  <b>Graduate</b>  <b>Course</b>  <b>11(2)</b>	<b>Letter of Permission Starting PG</b> <b>Course</b>  <b>No.U12012/305/2008-ME (P- II)</b>  <b>Dated: 31.03.2009</b>  <b>1. M.D.Pharmacology -</b> <b>03</b>  <b>2. M.D.hospital Administration -</b> <b>02</b>	<b>3 Years</b>		

<b>(Enclosed the Certificate of recognition/approval sent while uploading LOI)</b>				
<b>10</b>	<b>Has the institution been recognized for its outstanding performance by any national / international agency such as DSIR, DBT, ICMR, UGC-SAP, AYUSH, WHO, UNESCO, etc.?</b>			
	Yes	✓	No	
	If yes, name of the agency DSIR , DBT			
	date of recognition: ..... (dd/mm/yyyy)			
	nature of recognition .....			
<b>11.</b>	<b>Does the institution have off-campus centres? ----NO</b>			

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	Yes		No	✓
	If yes, date of establishment: ..... (dd/mm/yyyy)			
	date of recognition by relevant statutory body/ies: ..... (dd/mm/yyyy)			

<b>12</b>	<b>Does the institution have off-shore campuses? NO</b>			
	Yes		No	✓
	If yes, date of establishment : ..... (dd/mm/yyyy)			
	date of recognition by relevant statutory body/ies: ..... (dd/mm/yyyy)			

<b>13.</b>	<b>Location of the campus and area:</b>			
		Location *	Campus area in acres	Built up area in sq. mts.
i.	Main campus area	Chinthareddypalem, Nellore	28.92 acres	1,49,681.9 sq. mts.
ii.	Other campuses in the country	-	-	-
iii.	Campuses abroad	-	-	-
(* Urban, Semi-Urban, Rural, Tribal, Hilly Area, any other (specify)-				
If the institution has more than one campus, it may submit a consolidated self-study report reflecting the activities of all the campuses.-				

<b>14</b>	<b>Number of affiliated / constituent institutions in the university</b>			
	Types of institutions	Total	Permanent	Temporary

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14	Number of affiliated / constituent institutions in the university			
	Types of institutions	Total	Permanent	Temporary
I.	Ayurveda			
II.	Dentistry			
III.	Homoeopathy			
IV.	Medicine	01	01	
V.	Nursing			
VI.	Pharmacy			
VII.	Physiotherapy			
VIII.	Siddha			
IX.	Unani			
X.	Yoga and Naturopathy			
XI.	Others (specify and provide details)			

15	Does the University Act provide for conferment of autonomy to its affiliated institutions? If yes, give the number of autonomous colleges under the jurisdiction of the University.					
	Yes		No	✓	Number	

16.	Furnish the following information:	
	Particulars	Number
a.	Accredited colleges by any professional body/ies	

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<b>16.</b>	<b>Furnish the following information:</b>	
	<b>Particulars</b>	<b>Number</b>
b.	Accredited course / department by any professional body/ies	
c.	Affiliated colleges	01
d.	Autonomous colleges	
e.	Colleges with Postgraduate Departments	
f.	Colleges with Research Departments	
g.	Constituent colleges	
h.	University Departments  Undergraduate Post graduate Research centers on the campus and on other campuses	
i.	University recognized Research Institutes/Centres	

17.	<b>Does the institution conform to the specification of Degrees as enlisted by the UGC? -- YES</b>			
	<b>Yes</b>	<b>✓</b>	<b>No</b>	
<b>If the institution uses any other nomenclatures, specify.</b>				

<b>18</b>	<b>Academic programs offered and student enrolment: (Enclose the list of academic programs offered and approval / recognition details issued by the statutory body governing the program)</b>	
<b>Programs</b>	<b>Number of Programs</b>	<b>Number of students enrolled</b>

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UG	MBBS	250
PG	MD(Anatomy)	3
	MD(Physiology)	3
	MD(Biochemistry)	3
	MD(Pharmacology)	3
	MD(Pathology)	4
	MD(Microbiology)	2
	MD(Forensic Medicine)	2
	MD(Community Medicine)	3
	MD(General Medicine)	8
	MD(Tb & Rd)	3
	MD(Dvl)	5
	MD(Psychiatry)	3
	MD(Paediatrics)	7
	MD(General Surgery)	12
	MS(Orthopaedics)	8
	MSOphthalmology)	4
	MS(ENT)	4
	MD(Radiology)	6
	MD>Anesthesiology)	8
	MD(Obstetric & Gynaecology)	7

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	MD(Hospital Administration)	6
	MD(Emergency Medicine)	2
Ph.D		2
PG Diploma	Diploma in Child Health	2
	Diploma in Orthopedics	1
	Diploma in Medical Radio Diagnosis	4
	Diploma in Obstetrics & Gynaecology	2
D.M./M.Ch.	DM(Cardiology)	2
	DM(Neurology)	2
	DM(Nephrology)	2
	DM(Medical Gastroenterology)	2
	DM(Endocrinology)	2
	M.Ch(Urology)	2
	M.Ch(Neuro Surgery)	2
	M.Ch(Surgical Gastroenterology)	2
Total		383

<b>19</b>	<b>Provide information on the following general facilities (campus-wise):</b>				
•	Auditorium/seminar complex with infrastructural facilities	Yes	✓	No	
•	Sports facilities				

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	Outdoor	Yes	✓	No	
	Indoor	Yes	✓	No	
•	Residential facilities for faculty and non-teaching staff	Yes	✓		
•	Cafeteria	Yes	✓	No	
•	<b>Health centre</b>				
•	First aid facility	Yes	✓	No	
•	Outpatient facility	Yes	✓	No	
•	Inpatient facility	Yes	✓	No	
•	Ambulance facility	Yes	✓	No	
•	Emergency care facility	Yes	✓	No	
•	Health centre staff	Yes	✓	No	
•	Qualified Doctor	Full Time	✓	Part Time	
•	Qualified Nurse	Full Time	✓	Part Time	
•	Facilities like banking, post office, book shops, etc.	Yes	✓	No	
•	Transport facilities to cater to the needs of the students and staff	Yes	✓	No	
•	Facilities for persons	Yes	✓	No	

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	with disabilities				
•	Animal house	Yes	✓	No	
•	Incinerator for laboratories	Yes	✓	No	
•	Power house	Yes	✓	No	
•	Fire safety measures	Yes	✓	No	
•	Waste management facility, particularly bio-hazardous waste	Yes	✓		
•	Potable water and water treatment	Yes	✓	No	
•	Any other facility (specify).	Meditation hall, 2 ATM Counters, police out post, general stores			

20	<b>Working days / teaching days during the past four academic years</b>							
	<b>Working days</b>				<b>Teaching days</b>			
<b>Number stipulated by the Regulatory Authority</b>	245	247	259	233	226	221	234	204
<b>Number by the Institution</b>	245	247	259	233	226	221	234	204
(‘Teaching days’ means days on which classes/clinics were held. Examination days are not to								

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be included.)

<b>20.</b>	<p><b>Has the institution been reviewed or audited by any regulatory authority? If so, furnish copy of the report and action taken there upon (last four years).</b></p> <p>The Institution has been reviewed by Medical council of India annually for renewal of sanctioned UG &amp; PG courses. The university conducts annual affiliation inspection before commencement of admission process for Undergraduate courses and inspects for Postgraduate courses in case of increase in seats.</p>
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<b>21.</b>	<b>Number of positions in the institution</b>							
<b>Positions</b>	<b>Teaching faculty</b>			<b>Non Teaching Staff</b>			<b>Technical Staff</b>	
Sanctioned by the Government			<b>341</b>			<b>1173</b>		<b>960</b>
Recruited								
Yet to recruit								
Sanctioned by the Management/Society or other authorized bodies			<b>341</b>			<b>1173</b>		<b>960</b>
Recruited								
Yet to recruit								
Stipulated by the			<b>341</b>			<b>1173</b>		<b>960</b>

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regulatory authority Cadre ratio								
Recruited								
Yet to recruit								
Number of persons working on contract basis			<b>341</b>			<b>1173</b>		<b>960</b>

<b>23</b>	<b>Qualifications of the teaching staff</b>											
<b>Highest Qualification</b>	Professor		Associate Professor/ Reader		Assistant Professor		Lecturer		Tutor /Clinical Instructor		Senior Resident	
	M	F	M	F	M	F	M	F	M	F	M	F
<b>Permanent teachers</b>												
D.M./ M.Ch.	<b>16</b>	<b>01</b>	<b>13</b>	<b>0</b>	<b>11</b>	<b>01</b>	-	-	-	-	<b>26</b>	<b>04</b>
Ph.D./D.Sc./D.Litt/M.D./ M.S.												
AB/FRCS/FRCP/ MRCP/MRCS/FDSRCS												
M.Phil.												
UG Teachers	<b>54</b>	<b>17</b>	<b>36</b>	<b>10</b>	<b>84</b>	<b>04</b>	-	-	<b>26</b>	<b>22</b>	<b>42</b>	<b>13</b>
<b>Temporary teachers</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>

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23	Qualifications of the teaching staff											
Highest Qualification	Professor		Associate Professor/Reader		Assistant Professor		Lecturer		Tutor /Clinical Instructor		Senior Resident	
	M	F	M	F	M	F	M	F	M	F	M	F
D.M./ M.Ch.												
Ph.D./D.Sc./D.Litt/M.D./ M.S.												
PG (M.Pharm./ PharmD, DNB, M.Sc., MDS., MPT, MPH, MHA)												
AB/FRCS/FRCP/ MRCP/MRCS/FDSRCS												
M.Phil.												
<b>DM / MCH</b>	16	1	13	0	11	1	MD	Or	MS	=	26	4
							Tut	ors				
UG Teachers	54	17	36	10	84	04	-	-	26	22	42	13
PG Teachers												

24	Emeritus, Adjunct and Visiting Professors.					
	Emeritus		Adjunct		Visiting	
	M	F	M	F	M	F
Number	<b>NIL</b>		<b>NIL</b>		<b>NIL</b>	

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25	<b>Distinguished Chairs instituted:</b>	
	Department	Chairs
	NIL	NIL

## 26. Hostel refer below for details

### \* Boys' hostel

- Number of hostels
- Number of inmates
- Facilities

### \* Girls' hostel

- Number of hostels
- Number of inmates
- Facilities

### \* Overseas students hostel

- Number of hostels
- Number of inmates
- Facilities

### \* Hostel for interns

- Number of hostels
- Number of inmates
- Facilities

### \* PG Hostel

- Number of hostels
- Number of inmates

Facilities



## Hostel Details

BOYS		GIRLS	
Under graduate	Post graduate	Under graduate	Post graduate
Susrutha : No. of Inmates: 322	Aswini & Charaka No. of Inmates: 150	Dhanvanthari & Rohini III & IV No. of Inmates: 694	Rohini I, II & V No. of Inmates: 180
Boys (Susrutha) : No. of Double Rooms : <b>161</b>	Gents (Aswini) No. of Double Rooms : <b>62</b>  Gents (Charaka) : NO. Of Double Rooms : 13	Girls (Dhanvanthri) : No. of double Rooms : <b>173</b> Girls (Rohini -III): No. of double Rooms : <b>77</b> Girls (Rohini -IV) : No. of double Rooms : <b>97</b>	Ladies (Rohini I) : No. of double Rooms: <b>44</b> Ladies (Rohini II) : No. of double Rooms: <b>10</b> Ladies (Rohini V) : <b>No. of double Romms 36</b>

27		Students enrolled in the institution during the current academic year, with the following details:						
Students	UG	PG			Integrate d Masters	M.Phil	Ph.D.	Integrate d Ph.D
		PG	DM	MCH				
	M* F*	M* F*	M* F*	M* F*	M* F*	M* F*	M* F*	M* F*
From the state								
where the	107	49	7	5	0	0	0	0
institutio	137	34	2	0	0	0	0	0
n is								
located								

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AP								
From other states	0 3	12 14	1 0	0 0	0 0	0 0	0 0	0 0
NRI students	2 1				0 0	0 0	0 0	0 0
Foreign students	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Total	109 141	61 38	8 2	5 0	0 0	0 0	0 0	0 0
*M-Male *F-Female								

<b>28</b>	<b>Health Professional Education Unit / Cell / Department</b>			
<b>i.</b>	Year of establishment 2000			
<b>ii.</b>	Number of continuing education programs conducted (with duration)			
<b>iii.</b>	Induction -4 IN LAST 4 YEARS			
<b>iv.</b>	Orientation - 4 IN LAST 4 YEARS			
<b>v.</b>	Refresher			
<b>vi.</b>	Post Graduate			
<b>29</b>	<b>Does the university offer Distance Education Programs (DEP)?</b>			
	Yes		No	✓
	If yes, indicate the number of programs offered.			

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	<b>Are they recognized by the Distance Education Council?</b>						
<b>30</b>	<b>Is the institution applying for Accreditation or Re-Assessment</b>						
		Accreditation	✓	Re-Assessment			
Cycle 1	✓	Cycle 2		Cycle 3		Cycle 4	
<b>31</b>	<b>Date of accreditation* (applicable for Cycle 2, Cycle 3, Cycle 4)</b>						
i.	Cycle 1: ..... (dd/mm/yyyy), Accreditation outcome/Result .....						
ii.	Cycle 2: ..... (dd/mm/yyyy), Accreditation outcome/Result .....						
iii.	Cycle 3: ..... (dd/mm/yyyy), Accreditation outcome/Result .....						
iv.	Cycle 4: ..... (dd/mm/yyyy), Accreditation outcome/Result .....						
	* Enclose copy of accreditation certificate(s) and peer team report(s)						

<b>32</b>	<b>Does the university provide the list of accredited institutions under its jurisdiction on its website? Provide details of the number of accredited affiliated / constituent / autonomous colleges under the university.- NA</b>
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<b>33</b>	<b>Date of establishment of Internal Quality Assurance Cell (IQAC) and</b>
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	<b>dates of submission of Annual Quality Assurance Reports (AQAR).</b>	
<b>i.</b>	<b>IQAC</b>	<b>(07/04/2015)</b>
<b>ii.</b>	<b>AQ AR</b>	<b>(i) ..... (dd/mm/yyyy)</b>
		<b>(ii) ..... (dd/mm/yyyy)</b>
		<b>(iii) ..... (dd/mm/yyyy)</b>
		<b>(iv) ..... (dd/mm/yyyy)</b>

<b>34</b>	<b>Any other relevant data, the institution would like to include (not exceeding one page).</b>
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**CRITERION WISE  
EVALUATIVE REPORT**



**CRITERION I:  
CURRICULAR ASPECTS**



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## CRITERION I: CURRICULAR ASPECTS

### 1.1 Curriculum Planning, Design and Development

#### 1.1.1 Does the institution have clearly stated goals and objectives for its educational program?

The goal is to create a system that exceeds in contributing the general, specialized and advanced health care professionals with excellent skills, knowledge and attitude to meet the healthcare needs of the region, nation and global community at large. To create an infrastructure that provides facilities to accord health care education, service and training leads to award of MBBS, MD / MS, DM / MCH.

##### **Our Vision**

To excel in value based medical education health care, research and technology of global standards enrich with quality contributing to national development.

##### **Our Mission**

- To provide a value based, student centric, community oriented, flexible medical education with continuous evaluation.
- To achieve sustain and further enhance quality medical education by providing access with thrust on quality, involving stake holders.
- To offer ultra affordable health care, integrating AYUSH system with access to rural people in congruence with all national health programs to achieve the goal of “Health for All”.
- To encourage innovative collaborative basic research to benefit the community and enable the industry to produce cost effective equipments and drugs.
- To stimulate innovation of indigenous technology and to promote technology transfer and optimal utilization of available contemporary technology for teaching, training, health care and research.

#### 1.1.2 How are the institutional goals and objectives reflected in the academic programs of the institution?

The goals of contributing general, specialized and advanced health care professionals are fulfilled through the programs offered. The goals and objectives are reflected in the MBBS, MD/MS, DM/MCh. and such other varied programs offered





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## **1.1.3 Does the institution follow a systematic process in the design, development and revision of the curriculum? If yes, give details of the process (need assessment, feedback, etc.).**

The college has designated Associated Dean academics and constituted curriculum committee in all the 32 Departments. These committees access and review the regulatory body guidelines, feedbacks from the stake holders and contemporary curricula, Identify the gaps in the curricula, and initiates the actions to fill the gaps by designing appropriate courses.

## **1.1.4 How does the curriculum design and development meet the following requirements?**

- \* **Community needs,**
- \* **Professional skills and competencies**
- \* **Research in thrust / emerging areas**
- \* **Innovation**
- \* **Employability**
- **Community needs**

The curriculum design and development meets the community needs by contributing learned healthcare professionals with excellent skills, knowledge and attitude to meet the health care needs of the region, nation and global.

### **Professional skills and competencies**

The academic programs offered have inherent quality of inducing general, specialized and advanced professional skills and competencies, required to meet the professional community needs.

### **Research in thrust / emerging areas**

The curricula are designed and regulated by the concerned authorities. Research and thrust area is a mandatory requirement in completing the post graduation and super specialties. However the college has constituted research committee to monitor the research thrust areas.

### **Innovation**

The committee for innovation initiates and implements varied innovative methods through curriculum design such as problem based learning, value added courses, Assisted self



learning, Integrated Learning, Museum Visits, Early clinical exposure ,Seminar s ,Problem based Learning and Quiz.

## **Employability**

The curriculum is designed by providing much need based knowledge skills required to meet the community healthcare needs and services makes the learner easily self employable and serves the community.

### **1.1.5 To what extent does the institution use the guidelines of the regulatory bodies for developing and/or restructuring the curricula? Has the institution been instrumental in leading any curricular reform which has created a national impact?**

Presently the academics guidelines of the national apex medical education regulatory body are implemented through the health science universities across the country. The health science universities are complying to the Medical council of India to redesign the curriculum, Such curriculum of the health science universities is followed by the affiliated health science colleges. Few of our faculties are instrumental in giving inputs for curriculum enrichment at the affiliating university.

### **1.1.6 Does the institution interact with industry, research bodies and the civil society in the curriculum revision process? If so, how has the institution benefitted through interactions with the stakeholders?**

The curriculum is designed and updated regularly in respective board of studies under faculty of medicine by the NTRUniversity of health sciences. In the board of studies constituted by the University, different stake holders are represented from across the stakeholders, which also included the community, research bodies, and national professional societies. The University meticulously follows medical council of India guidelines while finalizing the curriculum. However each department in the college has constituted curriculum committee to which teachers of the department, person form the research sector and the community of the institute is a member for the curriculum committee. The institution is benefited in designing and providing innovative services leaded by the community and also focuses on research of relevance.



## **1.1.7 How are the global trends in health science education reflected in the curriculum?**

The curriculum committee at the college level and department level review the trends in the global health science education through reviews of syllabi of varied contemporary health science universities also recent advances in specialty are reviewed to make the existing curriculum of the University more competent and to meet the gaps in the curriculum of the university, each department has designed at least two enrichment courses in their specialty and also do problem based learning are designed and implemented .

## **1.1.8 Give details of how the institution facilitates the introduction of new programs of studies in its affiliated colleges.**

The college by itself a affiliated to Dr. NTRUniversity of health sciences, hence this question is not applicable, however when the college intends to start any new program of studies in post graduation. The curriculum committee of the college assess the needs of such programs and recommends to associate in academic who inter recommends and avails permission from chairperson IQAC. Once IQAC permits to start new program of studies necessary actions are initiated with the University to start a new program of studies such as avail in the list of programs available to apply the University in necessary pro-forma and undergoes inspection by the concern University and apex body like MCI

## **1.1.9 Does the institution provide additional skill-oriented programs relevant to regional needs?**

The curriculum committee of the department identifies the gaps in the education, service, and research initiates action to fill these gaps by designing and implementing enrichment courses, problem based learning and value added courses in all the departments, in all total 258 number of enrichment courses, 452 number of problem based learning, design and implemented in all departments as a part of curriculum enrichment

## **1.1.10 Explain the initiatives of the institution in the following areas:**

**\* Behavioral and Social Science.** - The college has established behavioral and social science unit under the department of Psychiatry. This unit deals with establishing professional behaviors among the learners. The slow learners after appropriated PG courses, counseling by mentors and parents meet, if not improved are referred to behavioral science



units under confidence. The college has constituted medical ethics committee to deal with the medical issues

- \* **Medical Ethics / Bio Ethics / Nursing Ethics** – At the end of 1 year internship special classes are arranged on medical ethics and bio ethics
- \* **Practice Management towards curriculum and/or services** - The practice management subject is dealt during the internship where in the issues pertaining to practice management are covered
- \* **Orientation to research** - Research committee constituted at institution level deals with the issues pertaining to research. A short term course for research methodology and orientation to research is conducted for all the new post graduate students immediately after admission Student ICMR , Scholar ships Etc
- \* **Rehabilitation** – The issues pertaining to rehabilitation after withdrawal from addiction initiated by the concerned departments
- \* **Ancient scriptural practices** – The institution maintains and attitude of concern to preserve the ancient scriptural practices
- \* **Health Economics.-** Health economics- is dealt by community medicine department
- \* **Medico legal issues** - Medico legal issues- is dealt by forensic medicine department
- \* **Enhancement of quality of services and consumer satisfaction** - are dealt by feedback committee through internal quality assurance cell , students , patients , parents, alumnae give feedbacks on the services quality and user satisfaction

## **1.1.11 How does the institution ensure that evidence based medicine and clinical practice guidelines are adopted to guide the patient care wherever possible?**

The institution and departments are appropriately implemented on evidence based medicine, and is in the process of internalization.

## **1.1.12 What are the newly introduced value added programs and how are they related to the internship programs?**

The interns are provided with value added programs that enrich their knowledge to serve in different clinical set up including the rural service, practical aspects of basic life support and advanced life support courses, comprehensive knowledge on establishing and managing the



clinics and polyclinics. The interns are provided with working knowledge with computers, internets, preparing PPTs and writing the projects.

### **1.1.13 How does the institution contribute to the development of integrated learning methods and Integrated Health Care Management?**

The institute contributes to the development of integrated learning methods through multi disciplinary approach and by integrating appropriate departments by deliration. Few of the integrated learning methods are used in dealing with following topics:

HIV, Diabetes, multi organ failure, fluid electrical balance, acid based balance, polytruama, blood transmission, OT technique, free and post operative care and such related topics are dealt with multi disciplinary approach by concerned faculty.

### **1.1.14 How is compatibility of programs with goals and objectives achieved with particular reference to priority of interface between Public Health, Medical Practice and Medical Education?**

The course of the public health is achieved by contributing qualified learned doctors community, then attitude to serve in rural areas and the objectives of medical practice are achieved by the outgoing graduates and post graduates settling in medical practices to serve community, The served medical education is one of the major mission of the institution and the institution provides medical education in both under graduates and post graduates and pastors global confidences.

## **1.2 Academic Flexibility**

### **1.2.1 Furnish the inventory for the following:**

\* Programs offered on campus

Programs	Number of Programs	Number of students enrolled
UG	MBBS	250
PG	MD(Anatomy)	3
	MD(Physiology)	3
	MD(Biochemistry)	3
	MD(Pharmacology)	3
	MD(Pathology)	4

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	MD(Microbiology)	2
	MD(Forensic Medicine)	2
	MD(Community Medicine)	3
	MD(General Medicine)	8
	MD(Tb & Rd)	3
	MD(DVL)	5
	MD(Psychiatry)	3
	MD(Pediatrics)	7
	MD(General Surgery)	12
	MS(Orthopaedics)	8
	MS (Ophthalmology)	4
	MS(ENT)	4
	MD(Radiology)	6
	MD(Anesthesiology)	8
	MD(Obstetric & Gynaecology)	7
	MD(Hospital Administration)	6
	MD(Emergency Medicine)	2
DNB	.....	0
Integrated Masters	.....	0
Integrated Ph.D	.....	0
PharmD	.....	0
M.Phil.	.....	0
Ph.D	.....	2
Certificate	.....	0
Diploma	.....	0
PG Diploma	Diploma in Child Health	2
	Diploma in Orthopaedics	1
	Diploma in Medical Radio Diagnosis	4
	Diploma in Obstetrics & Gynaecology	2
D.M./M.Ch.	DM(Cardiology)	2
	DM(Neurology)	2

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	DM(Nephrology)	2
	DM(Medical Gastroenterology)	2
	DM(Endocrinology)	2
	M.Ch(Urology)	2
	M.Ch(Neuro Surgery)	2
	M.Ch(Surgical Gastroenteriology)	2
Sub/Super Specialty Felloow ship	.....	0
Any Other (Specify)	.....	0
Total		383

## 1.2.2 Give details on the following provisions with reference to academic flexibility

### a. Core options

### b. Elective options

### c. Bridge course

### d. Enrichment courses

### e. Credit accumulation and transfer facility

### f. Courses offered in modular form

### g. Lateral and vertical mobility within and across programs, courses and disciplines and between higher education institutions

### h. Twinning programs

### i. Dual degree programs

**a. Core options-** The apex body Medical Council of India has designed curriculum for under graduate, post graduate and such other specialties, which are implemented by the health science University across the country with appropriate edition by the University across the entire UG course Multiple courses are implemented which are not optional, so all these courses are compulsory to complete UG programs. However core options at UG level are initiated by providing enrichment courses in each course.

**b. Elective options-** Elective options are available in all varied post graduate diploma and degree programs and vertical elective options are provided at the all The super specialties provided

The core options are provided in the UG Program level and elective option are made available in pg courses



**c. Bridge course-** The institute has constituted committee for slow learners under associate dean academics and appropriate bridge courses including classes for English and regional language are initiated

**d. Enrichment courses-** At all the courses and programs in UG and PG have minimum two enrichment courses implemented.

**e. Credit accumulation and transfer facility-**the college is affiliated to regional health science University, such facility is being initiated which is under process

**f. Courses offered in modular form-** The college is affiliated to regional health science University, such facility is being initiated which is under process

**Lateral and vertical mobility within and across programs, courses and disciplines and between higher education institutions-** National mobility is provided within and across the program to UG courses and vertical mobility is assigned in PG diploma, degree and super specialty programs

**g. Twinning programs-** The college is affiliated to regional health science University, such facility is being initiated which is under process

**h. Dual degree programs** - The college is affiliated to regional health science University, such facility is being initiated which is under process

## **1.2.3 Does the institution have an explicit policy and strategy for attracting students from**

The programs available for the students seeking admission to the college from any state in India and abroad are as per the prevailing guidelines.

### **Socially and financially backward sections**

The students belonging to this category are governed by the laws of the lands.

### **International students**

The NRI quota is available for international students. The college is listed in FAIMER's International Medical Education Directory (IMED). The colleges with most recognized and operating medical schools are listed in IMED. The college ID number is F0002184

## **1.2.4 Does the institution offer self-financing programs? If yes, list them and indicate**

All the programs offered by the Institution are self financing





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**1.2.5 Has the institution adopted the Choice Based Credit System (CBCS) / credit based system? If yes, for how many programs? What efforts have been made by the institution to encourage the introduction of CBCS in its affiliated colleges?**

The institution is being affiliated to health Science University and recognized by medical council of India, no such provisions are made by the regulatory authorities. However the curriculum committees have initiated such CBCS system, which is under process.

**1.2.6 What percentage of programs offered by the institution follows?**

- \* Annual system -100% of the programs follow annual system
- \* Semester system-
- \* Trimester system

**1.2.7 How does the institution promote multi/inter-disciplinary programs? Name a few programs and comment on their outcome.**

The institution promote multi and inter disciplinary programs. This is being much practiced while conducting continuous medical education programs and other medical education programs. The college has a separate unit of medical education for such multi disciplinary programs to be conducted. Few of the multi disciplinary programs conducted are - HIV, Diabetes, and multi organ failure, fluid electrical balance, acid based balance, PolyGram, blood transmission, OT technique, free and post operative care and such related topics are dealt with multi disciplinary approach by the concerned faculty.

**1.2.8 What programs are offered for practicing health professionals for skills training and career advancement?**

Periodical workshops are held to enhance the skills in certain areas like endoscopic surgeries etc .The college and all the departments conduct subject specific skill development programs every year , that are made mandatory by the state and central medical counsel, for such courses the practitioner of the community are invited for up gradation of their skills, training and career advancement . The faculty members of the college are also the members of local Indian medical association branches and National professional society.



## 1.3 Curriculum Enrichment

### 1.3.1 How often is the curriculum of the institution reviewed and upgraded for making it socially relevant and/or skill oriented / knowledge intensive and meeting the emerging needs of students and other stakeholders?

The curriculum redesign and update and enrichment is implemented by the board of studies and faculty of medicine of the University while updating these authorities make the curriculum community relevant adds recent advances makes the curriculum knowledge incentive and focuses on emerging needs of the students, patients and community health services and such other stake holders.

### 1.3.2 During the last four years, how many new programs were introduced at the UG and PG levels? Give details.

Multi / inter-disciplinary – Topics are discussed, however no such new programs is being added in last 4 years. Programs in emerging areas – Workshops, seminars, CMEs are arranged, no such new programs is added in last 4 years.

UG Level – Nil, PG Level – Nil

### 1.3.3 What are the strategies adopted for the revision of the existing programs? What percentage of courses underwent a syllabus revision?

The strategies adapted for revision of the existing programs is to meet the health care education, service and research needs of the stake holders. Although frequently the curriculum is updated by the apex bodies and adapted by the affiliating University the college prove its curriculum committee across all departments meets the gaps in such curriculum by providing additional courses such as enrichment course, value added course and problem based learning

### 1.3.4 What are the value-added courses offered by the institution and how does the institution ensure that all students have access to them?

The value added courses are designed and implemented by the concerned departments. However, courses that are general in nature are dealt by the institution viz, example, working knowledge of computers, internet surfing, use of lcd's and preparation of PowerPoint presentation such courses are dealt at the institution level.



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### **1.3.5 Has the institution introduced skills development programs in consonance with the national health programs?**

Yes. Clinical skills and surgical skills are developed in special labs

The college implements the curriculum designed and developed by the affiliating University which strictly complies with national apex body. The respective departments participate in national health programs of their departments.

### **1.3.6 How does the institution incorporate the aspects of overall personality development addressing physical, mental, emotional and spiritual well being of the student?**

The college has constituted staff and students welfare committee and strongly encourages student activities and their participation through students counsel. The students counsel initiates varied cultural, sports and physical activities and co-cultural activities, by such activities physical, mental, social and spiritual well being is accomplished. The college also has yoga, naturopathy and spiritual centre which deal with such needs of the human resource. The college has celebrated world yoga day. The college also provides value adding education through Personality sessions.

### **1.3.7 Does the curriculum provide for adequate emphasis on patient safety, confidentiality, rights and education?**

Yes, The College has well drafted mechanism to maintain for patient safety confidentiality and patients rights education. The institute rigidly complies with such regulatory guidelines with respect to patient safety, confidentiality and patients rights education

### **1.3.8 Does the curriculum cover additional value systems?**

Beyond the syllabus and curriculum additional value adding courses are provided to the learner throughout the programs, such as professional ethics attitude to serve in rural place, citizenship role, working knowledge of computers, internet browsing, customer satisfaction, patients rights and the individuals social responsibility and such similar issues are dealt throughout the program.



## 1.4 Feedback System

### 1.4.1 Does the institution have a formal mechanism to obtain feedback from students regarding the curriculum and how is it made use of?

The institution has designed and implemented mechanism to update feedbacks from students, student feedback is collected on all the courses and programs in four point likert scale analyses the outcome arrived are used as input for improving the curriculum of the courses and programs.

### 1.4.2 Does the institution elicit feedback on the curriculum from national and international faculty? If yes, specify a few methods such as conducting webinars, workshops, online discussions, etc. and their impact.

The college uses feedbacks from the most learned professionals during their visit to college for workshops seminars and conferences, also has during regulatory visits and approval

### 1.4.3 Specify the mechanism through which affiliated institutions give feedback on curriculum and the extent to which it is made use of.

The affiliated colleges which availed feedback from varied stakeholders analyzed the data. The faculties during their deliberation in academic matters with the different authorities of the University gave the feedback on the same platform.

### 1.4.4 Based on feedback, what are the quality sustenance and quality enhancement measures undertaken by the institution in ensuring the effective development of the curricula?

The quality sustenance and quality enhancement initiatives of the institution are curriculum committee is constituted, enrichment courses, problem based learning, value added courses are added The lecture hall with high end facilities are added, library resources of intensify is added. The faculties intensively deploy ICT facilities and hi-fi facilities to supply entire the campus

### 1.4.5 What mechanisms are adopted by the management of the institution to obtain adequate information and feedback from faculty, students, patients, parents, industry, hospitals, general public, employers, alumni and interns, etc. and review the activities of the institution?



## **NARAYANA MEDICAL COLLEGE**

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The college has constituted a feedback committee incorporating members from varied stake holder section. The college has implemented a clear mechanism to elicit the feedback from students, parents, patients, alumni, and community leaders for continuous improvement in selected parameters of the quality. The outcome of the analysis of such feedback is discussed by associate dean – human resource and communicated to chairperson-IQAC. These are also reflected in the management review meetings and appropriate actions are initiated.



**CRITERION II: TEACHING-  
LEARNING AND EVALUATION**



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## CRITERION II: TEACHING-LEARNING AND EVALUATION

### 2.1 Student Enrolment and Profile

#### 2.1.1 How does the institution ensure publicity and transparency in the admission process?

The admission of the institution is purely governed by the Affiliated University and the admission process is entirely transparent. The Category –A seats are filled through counseling by the University and all the rules of reservations, etc are followed strictly. The notification for the CET is widely publicized in the national, local news papers, channels, college websites etc and any candidates in all categories are selected on merit basis. The university displays the available seat matrix in the university website, and availability status during counseling in the monitors in the counseling centers.

#### 2.1.2 Explain in detail the process of admission put in place by the institution. List the criteria for admission: (e.g.: (i) merit, (ii) merit with entrance test, (iii) merit, entrance test, aptitude and interview, (iv) common entrance test conducted by state agencies and national agencies (v) any other criteria (specify).

a) 50% of the seats [A-category] in the institution is filled by the counseling conducted by the affiliated university. The candidates are selected based upon the merit in the Medical common entrance test conducted by the government. The government issues the common entrance notification in all the leading news papers. The application for appearing in the CET will be available in the web address provided and to be filled in by the candidate through online. The candidate appears for the examination at the examination centre. The results are declared by the government in a span of 1-2 weeks. The merit list is displayed in the website of the university and counseling is conducted by the affiliated university as per the merit order. In this category the university follows all the rules and regulations etc reservations, physically challenged, sports quota etc.

b) 35 % of the next lefts over seats [B-Category] are filled by counseling conducted by the University. The students in this category are selected based on Common entrance test MCET-AP conducted by the consortium of Private medical colleges. The consortium issues notification for the entrance test in all leading news papers. The candidates apply for the entrance test through filling the online applications by paying stipulated fees. The examination is conducted online and results are declared in 2 weeks and merit list is



displayed in the website. The counseling is conducted in the Affiliated University as per the stipulated dates. The students opt for the desired college based upon the vacancy status.

c) Next 15% of seats [C-category] are filled by the management based upon the merit category. The institute issues notification for filling the seats in the website. The application form is filled by the candidate and the committee verifies all the application forms. The selected candidates are selected based upon the merit order and the seats are filled.

d) The post graduate convener quotas 50% of seats are filled by conducting a common entrance test by the Affiliated University by giving paper & media notifications. The candidates have to apply online by paying the stipulated fee. The examination is conducted and results are declared in 1-2 weeks. The counseling is conducted based upon the merit order. The seats are filled following the rules & regulations of the Govt. The management quotas 50% of seats are filled by giving paper notification, website notification and wide publicity. The application forms are invited and candidates have to apply online. The applications are scrutinized by the scrutinizing committee and merit list is prepared and the displayed in the notice boards & website. The merit list will be submitted for university for approval, upon approval from UHS, the candidates are joined based upon the merit basis only.

### **2.1.3 Provide details of admission process in the affiliated colleges and the university's role in monitoring the same.**

University constitutes and monitors the competent authority for admission process. The competent authority of the University shall issue an advertisement calling for a single application in the prescribed form from the eligibly qualified candidates who have been assigned ranking in the common entrance test desirous to seek admissions in government and private medical colleges in respect of seats to be filled by the competent authority. The competent authority shall prepare the merit list namely common merit list, category merit list (reserve categories arranged in the form of merit ranking), and in case of same rank being obtained by more than one candidate, the marks obtained in physics, chemistry, botany, and zoology shall be reckoned. The university will call for interview in the order of merit for selection and allotment of courses and institution.





## 2.1.4 Does the institution have a mechanism to review its admission process and student profile annually? If yes, what is the outcome of such an analysis and how has it contributed to the improvement of the process?

The institution has well defined students admission process through a committee established for the purpose. The committee analyses and monitors students admission in category wise such as, male, female, Specially abled, same state and other state. Based on the category necessary efforts are made to meet the individual category needs.

## 2.1.5 What are the strategies adopted to increase / improve access for students belonging to the following categories:

- \* SC/ST
- \* OBC
- \* Women
- \* Persons with varied disabilities
- \* Economically weaker sections
- \* Outstanding achievers in sports and other extracurricular activities

The SC/ST Students and OBC Students persons with varied disabilities and economically weaker section are provided with all such facilities and benefits provided by the government to the college, however for each such category appropriate financial help guidelines are prepared and implement by the institution.

## 2.1.6 Number of students admitted in the institution in the last four academic years:

Categories	2014		2013		2012		2011	
	Male	Female	Male	Female	Male	Female	Male	Female
OC	68	74	38	54	35	46	29	51
BC	27	46	13	24	21	26	18	30
SC	10	15	7	8	5	10	9	7
ST	5	5	3	3	3	4	2	4
Others								
Total	110	140	61	89	64	86	58	92



**2.1.7 Has the University conducted any analysis of demand ratio for the various programs of the University departments and affiliated colleges? If so, highlight the significant trends explaining the reasons for increase / decrease.**

The college is affiliated to health Science University, however; the demand ratio for the applicable seats is maintained in the office

**2.1.8 Were any programs discontinued/ staggered by the institution in the last four years? If yes, specify the reasons.**

No such existing UG and MD/MS and super speciality programs are discontinued in the last 4 years.

## **2.2 Catering to Student Diversity**

**2.2.1 Does the institution organize orientation / induction program for freshers? If yes, give details such as the duration, issues covered, experts involved and mechanism for using the feedback in subsequent years.**

The institution organizes fresher's day and induction program separately. The induction program is of two days conducted to all new entrants of the UG and PG. The overall induction program is to make the learner aware of the vision and mission, campus facilities, faculties' research facilities available, method of evaluation, course content, fee structure, students council, students participation in IQAC and such similar information needed for a new learner is conducted including visit to varied sections of the office, education and service components of the institution. They are also informed of the rules and regulations for well behavior on the campus hostel and library rules. Spiritual teaching by members from ISKCON society, Personality development and communication skills: Dr.Ramsubbareddy, Psychological counseling: by Dr.Krishnamurthy .M.D. Psychiatry

**2.2.2 Does the institution have a mechanism through which the "differential requirements of the student population" are analyzed after admission and before the commencement of classes? If so, how are the key issues identified and addressed?**

The college has established committee for mentorship and counseling to deal with differential requirements of the different category of students, slow learners, special abled, adverse learners, female students and such other category student's needs.



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## **2.2.3 How does the institution identify and respond to the learning needs of advanced and slow learners?**

The slow learners are counseled appropriately by the concern mentor, bridge courses in regional languages and English classes are conducted. Wherever needed extra classes and opportunities to attend practical's, home assignments, discussion of question papers is initiated. The advanced learners are allotted with challenging task appropriate the speciality, like library view, library dissertation, seminar symposium, presentation of research articles and publications.

## **2.2.4 Does the institution offer bridge / remedial / add-on courses? If yes, how are they /faculty-wise? Structured into the time table? Give details of the courses offered, department-wise**

A committee to cater to the differential needs identifies an initiate action to provide bridge course, remedial drill and add-on courses. Local language speaking classes, English speaking classes are initiated. Similarly counseling for slow learners enrichment courses and problem based learning for advanced learners and exclusive facilities to meet the differential needs of especially abled learner are provided. Enrichment courses 258 ,problem based learning -472 are implemented

## **2.2.5 Has the institution conducted any study on the academic growth of students from disadvantaged sections of society, economically disadvantaged, differently-abled, etc.? If yes, what are the main findings?**

The college has designated associate dean examination who analyses the academic growth of different categories of learners after once the results are announced. The college has maintained the data of academic growth of the student from disadvantaged section of the society, economically disadvantaged, differently abled learner.

## **2.2.6 Is there a provision to teach the local language to students from other states/countries?**

The college has initiated to teach regional and local language to the students coming from other states.



## **2.2.7 What are the institution's efforts to teach the students moral and ethical values and their citizenship roles?**

As a part of the personality development sessions and professional ethics the institution has made efforts to teach moral and ethical values, the college also has constituted committee for professional ethics which deals with such issues. The institution has policy of establishing a culture of social responsibility among the learners by inducing a culture of citizenship role environmental concern and rural health services.

## **2.2.8 Describe details of orientation/ foundation courses which sensitize students to national integration, Constitution of India, art and culture, empathy, women's empowerment, etc.**

The associate dean human resource through varied committee implements sensitization programs for women empowerment, national integration, constitution of India and such similar topics. Institution strongly encourages student's participation in art and culture and national festivals, national health machine, Swatch Barath, environmental issues, Nepal earthquake sufferers.

## **2.2.9 Has the institution incorporated the principles of Life Style Modifications for students based on Eastern approaches in their day to day activities?**

The concerned specialties deal with such awareness lectures on principles of life style modifications including good habits, exercise, yoga and spiritual lectures are committed by the department of yoga , naturopathy,

## **2.2.10 Has Yoga/Meditation/any other such techniques been practiced by students regularly as self-discipline?**

In the premises the college provides yoga and naturopathy in it the services of which are availed by the students and faculties

## **2.2.11 How does the institution attend to the diverse health issues (physical and mental) of students and staff?**

The college has established mentorship and counseling system in which under performance are identified and counseled. The further need be they are refereed to behavioral and self mentored by competent personal. The hospital provides such free health care services to both students faculties and non teaching staff.



## 2.2.12 Does the institution cater to the needs of groups / individuals requiring special attention by conducting group classes / special individual trainings / focused group discussion / additional training measures etc.?

Yes by teaching-learning process, The institution caters meticulously to the disadvantage groups such as, the economically backward females, specially abled scheduled caste and scheduled tribes and students with regional language problems, based on the specific group needs appropriate actions are initiated such as coaching in English classes, teaching regional language, providing ramp and lift facilities and such bridge courses

## 2.3 Teaching-Learning Process

### 2.3.1 How does the institution plan and organize the teaching-learning and evaluation schedules such as

- \* **The academic calendar** - The University provides an exhaustive academic calendar for all the affiliated colleges to follow.
- \* **Master Plan** – Complying to the academic calendar the institute prepares meticulous master plans including detailed calendar of events for institutions and departments, so as to accomplish the educational, research, and services needs.
- \* **Teaching Plan** – Every faculty complying to the academic calendar institutional master plan prepares their teaching plan, so as to complete the syllabus well ahead of the scheduled date of completion. The plan also incorporates content of the topic, method of the delivery, and such other related matters.
- \* **Rotation Plan** – During the process of completing the under graduate programs intensive rotational postings are provided. Similarly during the PG studies rotation postings specific to the programs are provided.

12 MONTHS COMPULSORY ROTATIONAL INTERNSHIP		
i. Compulsory Subjects : 11 Months		ii. Elective Postings : 1 Month (Elective posting will include two of the following for 15 days in each subject)
Community Medicine	2 months	- Dermatology and Sexuality Transmitted Diseases. - Psychiatry - Tuberculosis and Respiratory
Medicine including 15 days of Psychiatry	2 months	
Surgery including 15 days	2 months	



Anesthesia		<b>Diseases</b> - Anesthesia - Radio Diagnosis - Physical Medicine and <b>Rehabilitation</b> - Forensic Medicine and Toxicology - Blood Bank and Transfusion Department.
Obst. & Gyneac. Including Family Welfare Planning	2 months	
Pediatrics	1 month	
Orthopaedics including PMR	1 month	
ENT	15 days	
Ophthalmology	15 days	
Casualty	15 days	
Elective posting (1 x 15 days)	15 days	

**Course Plan** - Each department has maintained detailed course plan for the department and program.

**Unit Plan** – Appropriate unit plans are prepared by the faculties and maintained in the department.

**Evaluation blue print** – Evaluation blue prints are maintained by all the departments.

**Outpatient teaching** – Is a regular method of providing a needful learning experience for the learner.

**In-patient teaching** - The bed side clinical are conducted in all the clinical subjects.

**Clinical teaching in other sites** – Clinical teaching in other sites includes exposure to operation theatres and diagnostics methods.

**Teaching in the community** - An exclusive course community medicine integrating with other departments provides community teaching through health camps, rural health postings, and posting in urban health centers. The learner participating in health camps, school health checkups, and visit to organizers and geriatric homes gets the community learning experiences.

## 2.3.2 Does the institution provides course objectives, outlines and schedules at the commencement of the academic session? If yes, how is the effectiveness of the process ensured?

At the beginning of the term all the departments provides course objectives and outlines to the student through orientation programs. Also provide detail course schedules at the beginning of the session. All these are well documented in annual calendar of events and students handbook



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**2.3.3 Does the institution face any challenges in completing the curriculum within the stipulated time frame and calendar? If yes, elaborate on the challenges encountered and the institutional measures to overcome these.**

No, The University gives the academic calendar the time table committee prepares, subject wise, year wise calendar for all the courses and programs including teacher topic time table for ensuing one year prepared and implemented. As all the processes are well planned there are no such challenges in the curriculum completion .

**2.3.4 How is learning made student-centric? Give a list of participatory learning activities adopted by the faculty that contributes to holistic development and improved student learning, besides facilitating life-long learning and knowledge management.**

The teaching learning process is student centric incorporates numerous methods viz didactic lectures using high end ICT facilities, lectures with ppt presentation and lectures with online access and internet and LCD facilities. regular home assignments viva- voice , lab experiments learning by actual doing , visiting operation theatres , case presentations discussions, tutorials , seminars, Wi-Fi facility in the library , online access of journals, student projects community extension activities , satellite centers , health camps, CME's, and many more such activities makes teaching learning process, student centric.

**2.3.5 What is the institution's policy on inviting experts / people of eminence to augment teaching-learning activities?**

The faculty development committee has drawn a policy to invite people of eminence to augment teaching learning process. In every event of continuing medical education and faculty academic and enrichment eminent people of the profession are regularly invited

**2.3.6 Does the institution formally encourages learning by using e-learning resources?**

Yes, The institution strongly encourages using learning resources in its teaching learning process. The college avails NTR University online e-learning resources and subscribes such facility by paying annual subscription of Rs2,50,000 per year. Students and faculty liberally use the e-learning resources for their day to day references and research and such similar activities.



## **2.3.7 What are the technologies and facilities such as virtual laboratories, e-learning and open educational resources used by the faculty for effective teaching?**

### **NTRMEDNET Consortium & Digital library:-**

NTRMEDNET is made available. In that Annual institutional Membership fee for NTRMEDNET Consortium & Digital Library is 2, 50,000 per every year. While the EBSCO & PROQUEST database provides 'in-house' access to e-learning resources, the NTRMEDNET consortia provides remote access to e-resources.

For the year 2015, the Consortium has provided the Journal Data Base of "PROQUEST & EBSCOHOST" which enables the member colleges to access Proquest 1194 and EBSCOHOST 2120 Journals, 999 books, procedures, multimedia and also Clinical Learning- a digital resource of clinical and practical skills for undergraduate medical curriculum with more than 200 modules, PROQUEST, EBSCO Data base.

The Digital Library has joined Electronic Resources in Medicine (ERMED) consortium hosted by National Medical Library, New Delhi, India and is also the member of Information Network (INFONET) consortium of UGC.

Digital teaching with power point presentations, videos, animations, and a separate digital library for faculty with internet connectivity to download the lectures and videos.

## **2.3.8 Is there any designated group among the faculty to monitor the trends and issues regarding developments in Open Source Community and integrate its benefits in the institution's educational processes?**

College has initiated to use open source community including creative interactive courseware using open-source learning platform, building visual process models project management tools and collaborative software's. A committee for ICT and medical education technology monitors these activities.

## **2.3.9 What steps has the institution taken to transition from traditional classrooms into an e-learning environment?**

Providing well built digital lecture theatres with all digital facilities. The student and faculties use the high-end ICT facilities provided across the campus including LCD, Video conferencing internet surfing and use of electronic radio and gadgets





**2.3.10 Is there provision for the services of counselors / mentors/ advisors for each class or group of students for academic, personal and psycho-social guidance? If yes, give details of the process and the number of students who have benefitted.**

Yes, The College meticulously implements students mentorship and working Each teacher mentors around six to seven students. Mentor monitors on regular basis, the academic, physical, social behaviors of the mentee fore closely offers regularities classes and internal student examinations, results, participation in student activities including sports cultural and co curricular activities. For any of the deviated behaviors the student is counseled by the mentor if required by interaction with parents, if not improved the learner will be refer to behavioral health unit established on the campus to resolve such issues

**2.3.11 Were any innovative teaching approaches/methods/practices adopted and implemented by the faculty during the last four years? If yes, did they improve learning? What were the methods used to evaluate the impact of such practices? What are the efforts made by the institution in giving the faculty due recognition for innovation in teaching?**

The institution has implemented innovative teaching learning process. Continuous performance assessment cards are prepared topic wise in all courses; students are regularly monitored for their performance improvement. The teaching method appropriates the health care system recommended by apex bodies and affiliating University authorities is followed. The proceeds incorporates theory practical's, case studies, group discussions, the seminars, symposiums

**2.3.12 How does the institution create a culture of instilling and nurturing creativity and scientific temper among the learners?**

The departments strongly encourage use of e-learning resources and intensive ICT facilities for teaching and learning students need to complete student projects, library dissertations, main dissertation, clinical case dissertations, journal clubs, attending and conducting conferences, participating in workshops and such similar activities all through the year



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**2.3.13 Does the institution consider student projects mandatory in the learning program? If yes, for how many programs have they been (percentage of total) made mandatory?**

Students projects are not mandatory in all the subjects, as per the guidelines of the affiliating University and National Apex body, However in most of the appropriate subjects the students projects are initiated. Some departments have availed ICMR students projects for which faculties are the guides hence the total number of students projects are 86 and ICMR students projects are 22 availed.

**2.3.14 Does the institution have a well qualified pool of human resource to meet the requirements of the curriculum? If there is a shortfall, how is it supplemented?**

Yes, the college meets and exceeds the learned manpower requirement of the regulatory authorities, however as and when such need arises to appoint fresh faculties to supplement the Dean is empowered to initiate actions

**2.3.15 How are the faculty enabled to prepare computer-aided teaching / learning materials? What are the facilities available in the institution for such efforts?**

All the faculties are trained in digital skills like ppt presentations, animations and videos. All the faculties are provided with full internet enabled computer systems. All the faculties have undergone training in regular working knowledge of computers, that deals with the basics of computer, use of internet and LCD, preparation of PowerPoint and such other details, faculty development committee monitors all such activities , the college provides ample such facilities including printers , scanners , and such similar softwares and electronic gadget. All the teachers are prepared minimum 20 PowerPoint presentations.

**2.3.16 Does the institution have a mechanism for the evaluation of teachers by the students / alumni? If yes, how is the evaluation feedback used to improve the quality of the teaching-learning process?**

Yes by feedback from the students, The institution has established well integrated feedback system involving varied stakeholders, among such many feedbacks designed and developed by the college, students give feedback on teachers, and alumni give feedback on the competencies gained after identifying the area for improvement in each teacher , the same is communicated to the concerned teacher for continuous improvement



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## 2.3.17 Does the institution use telemedicine facilities for teaching-learning processes? If yes, cite a few instances.

### **Telemedicine facilities -A report on international achievement**

At Narayana medical college, even the under graduate students are encouraged to involve themselves in the research activity and many students got recognition locally and some at national level by receiving appreciation from institutions like ICMR etc .One such student got international recognition.

S.Skandha Harshita while studying MBBS at Narayana Medical college received a global award as the third honorable mention in Journal of young investigators- worldwide virtual poster session competition in 2010 on Endoscopic Management of choanal atresia and nasal papillomas after cleft palate repair.

This made Narayana medical college-Nellore, to sparkle in the world map of student medical research programs .She was appreciated by the management and in her academic progression

## 2.3.18 Does the institution utilize any of the following innovations in its teaching-learning processes?

- \* **ICT enabled flexible teaching system.** – The college has constituted committee for ICT under associate dean administration and provides ICT enabled state of the art and distinct flexible teaching and learning system across the campus
- \* **Reflective learning.**- Reflective learning is rigorously practiced through different learning experiences provided in the process such as seminar, symposiums, bed side teaching, OPD teaching and community teaching
- \* **Simulations.** – Appropriate commutated remediation are made available in different discipline at both UG and Postgraduate levels
- \* **Evidence based medicine.**-Evidence based Medicine is being initiated under associate dean academic and implemented
- \* **Emphasis on development of required skills, adequate knowledge and appropriate attitude to practice medicine.**- The institute has initiated personality developmental sessions to accord professional development skills such as to become a family physician, well learned post graduate or super specialty professional is required skills, excellent knowledge an attitude PPT for the role
- \* **Problem based learning (PBL)** – Two each in all the departments are designed and



implemented at all the levels at education. Self directed learning is practiced at all the levels through varied learning experience including case presentations, seminar symposiums, learning by observing, learning by assisting, learning by including HOD, learning through practices and virtual learning through High end IT and Wi-Fi facilities

- \* **Student assisted teaching (SAT)** - above self to facilities
- \* **Self directed learning and skills development (SDL)**- as above
- \* **Narrative based medicine** – is practiced in case reports, roundups home assignments, case presentations and short communication and through publications
- \* **Medical humanities** – is strongly practiced including counseling and behavioural self established on the campus and medical ethics is implement of hi sensor commitment
- \* **Drug and poison information assistance centre** - is established on the campus which provides such information to the needy stake holders. Students are posted in emergency medicine department who gains such experience
- \* **Ayurveda practices** - Healthy living, knowledge and skills appropriate for the human illness is accommodated wherever relevant
- \* **Yoga practices** - The institute has a centre of excellence in yoga practice and techniques established with hi end infrastructure and learn bed man power and have initiated attitudinal changes on this issue among the stake holders
- \* **Yoga therapy techniques**- as above
- \* **Naturopathy and its practices** – as said above
- \* **Any other.**

### **2.3.19 Does the institution have an Electronic Medical Records facility, staffed by trained and qualified personnel? Is it used for teaching-learning process?**

Yes, The College has an exclusive IT department with well trained software engineers who also are involved in need based software for healthcare education in hospital systems. The college has maintained EMR records of all interesting cases, rare cases of all specialties, also provides department of medical illustration with highly qualified professional photographs and equipments including high end camera. Patient care and hospital care management software's are employed appropriately.



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**2.3.20 Does the institution have well documented procedures for case sheet writing, obtaining informed consent and the discharge process of the patients?**

Yes, the hospital has well documented procedures for case sheet writing to obtain informed consent and discharge process of patients

**2.3.21 Does the institution produce videos of clinical cases and use them for teaching-learning processes?**

Yes, The College provides medical illustration departments with photographer, designer and video camera, wherein, rare and interesting cases are recorded and used for UG & PG teaching.

**2.3.22 Does the institution perform medico legal/post-mortem procedures with a view to train the undergraduate and post-graduate students in medico legal procedures?**

Autopsy is done by the department of Pathology. Post mortem is in association with Govt medical college, Nellore

**2.3.23 Does the institution have drug and poison information and poison detection centers? How are these used to train the students?**

Yes, The institution has the Drug and poison information and poison detection centre, students are posted in causality and emergency medicine , students learn by attending and dealing with all treating such patients of poisoned

**2.3.24 Does the institution have a Pharma co vigilance / Toxicology centre /clinical pharmacy facility / drug information centre/Centre for disease surveillance and control/Prevention through Yoga/Promotion of positive health/Well-equipped Psychology Laboratory/ Naturopathic diagnostic centre, etc.?**

Yes, the pharma co vigilance center was started four years ago. It has installed 15 adverse drug reaction collection boxes to collect ADR notifications given by either patient or nursing staff or physicians. ADR boxes were opened on every Wednesday. Pharma co vigilance committee is formed by a group of members consisting of Chair Person, Member Secretary, Coordinator, Medical Superintendent, HOD of Medicine, HOD of Surgery, HOD of Dermatology, HOD of Medical Gastroenterology, HOD of Pathology and medical Pharmacist. The pharma co vigilance committee has conducted an awareness programme to both faculty and students every year, The ADR boxes will be opened once in a week to



collect ADR notifications, Thank you letter will be sent to respective ADR notified. Then a detailed investigation will be done by one of our faculty to assess the causal relationship between offending drugs and adverse drug reactions. In the CDSCO designed ADR format adverse reactions will be filled and sent to one of the regional centers like JIPMER Pondicherry.

One Pharma co vigilance committee Proceedings held on Between Aug 2014 to Sept 2014 and one ADR case was reviewed. The case is as follows, Patient developed swelling of lips, tongue and eye lids and mucopurulent ulcers appeared on mouth eye and eye lids following with the treatment of drug cefixime 100mg oral as the child was treated for severe fever.. The case and ADR was discussed by members in this meeting. As per the action plan decided by the Pharma co vigilance committee members the ADR was reported to ADR centre, JIPMER. The Meeting was concluded with a vote of thanks.

## 2.3.25 Laboratories / Diagnostics

### DETAILS OF LABORATORIES

#### Anatomy:

1. Dissection of 500 Sq.m. area which Accommodation for 250 students at a time. Embryology room of 12 Sq.m , 3 storage tanks and Cold storage room is available.
2. Museum of 300 Sq.m. with Wet and Dry Specimens, Embryology Sections, Models, Radiological Plates. Two attached room of 15 Sq.m for available.

#### Physiology:

1. Amphibian Laboratory of 300 Sq.m. with preparation room.
2. Mammalian Laboratory of 120 Sq.m. which can Accommodation 75 students at a time.
3. Hematology Laboratory of 375 Sq.m. is shared with Pathology Department.

#### Biochemistry:

1. A Laboratory 300 Sq.m. with 125 students capacity is shared with clinical Pharmacology.

#### Pharmacology:

1. Experimental Pharmacology of 300 Sq.m. with 250 students accommodation.
2. Clinical Pharmacology of 375 Sq.m. is shared with Biochemistry department.
3. Museum of 300 Sq.m. with 75 students accommodation and 20 copies of Catalogues available.

#### Pathology:



1. Histopathology Laboratory of 375 Sq.m. and 2 preparation rooms is shared with Histology - Anatomy department,
2. Cytopathology Laboratory 375 Sq.m. is shared with Hematology Lab of Physiology department.

## **Community Medicine:**

1. Laboratory 375 Sq.m. is shared with Microbiology department.

## **Microbiology:**

1. Laboratory 375 Sq.m. is shared with Community Medicine department.

## **Forensic Medicine:**

1. Independent Laboratory 275 Sq.m. having Forensic histopathology, Serology, Anthropology.
2. Museum 225 Sq.m. with 75 students and 30 of Catalogues

### **2.3.26 How many procedures / clinical cases / surgeries are observed, assisted, performed with assistance and carried out independently by students in order to fulfill learning objectives?**

These are well guided by affiliating university and the Medical Council of India

### **2.3.27 Does the institution provide patients with information on complementary and alternative systems of Medicine?**

No such system is in practice and the services are governed by central apex authorities. Allopathic system of medicine is followed

### **2.3.28 What are the methods used to promote teaching-learning process in the clinical setting?**

The initiatives to promote teaching learning process in clinical settings are short term and long term case presentations, bed side clinics, rural postings in satellite centers, rural and urban clinics, self directed learning through observing and by self performing. During internship and post graduate training learner is posted to various departments on rotation to gain skills and knowledge required for the profession. The college has established medical education technology cell where in teaching for different clinical settings is dealt.



## **2.3.29 Do students maintain log books of their teaching-learning activities?**

Yes, In undergraduate teaching students maintain the practical journals, viva records and CPA records, similarly in all the departments maintain postgraduate logbook to monitor the varied academic activities of the faculty and students.

## **2.3.30 Is there a structured mechanism for post graduate teaching-learning process?**

Yes, Postgraduate Teaching and Training Programme As per the Medical Council of India Regulations

- a. Postgraduate Medical Education in broad specialties shall be of three years duration in the case of degree course and two years in the case of Diploma course after MBBS and in the case of super specialties the duration shall be of three years after MD/MS with the exceptions wherever indicated.
- b. Postgraduate curriculum shall be competency based.
- c. Learning in postgraduate programme shall be essentially autonomous and self directed.
- d. A combination of both formative and summative assessment is vital for the successful completion of the PG programme.
- e. A modular approach to the course curriculum is essential for achieving a systematic exposure to the various sub-specialties concerned with in a discipline.
- f. The training of PG students shall involve learning experience 'derived from' or 'targeted to' the needs of the community. It shall, therefore, be necessary to expose the students to community based activities.

## **2.Goals and general objectives of postgraduate medical education programme to be observed by postgraduate teaching institution.**

### **3.1 GOAL**

The goal of postgraduate medical education shall be to produce competent specialists and/or Medical teachers.

- 1.who shall recognize the health needs of the community, and carry out professional obligations ethically and in keeping with the objectives of the national health policy
- 2.who shall have mastered most of the competencies, pertaining to the specialty, that are required to be practiced at the secondary and the tertiary levels of the health care delivery system;





3. who shall be aware of the contemporary advance and developments in the discipline concerned;
4. who shall have acquired a spirit of scientific inquiry and is oriented to the principles of research methodology and epidemiology; and
5. who shall have acquired the basic skills in teaching of the medical and paramedical professionals;

## **3.2 GENERAL OBJECTIVES OF POST-GRADUATE TRAINING EXPECTED FROM STUDENTS AT THE END OF POST-GRADUATE TRAINING**

At the end of the postgraduate training in the discipline concerned the student shall be able to;

1. Recognize the importance to the concerned specialty in the context of the health needs of the community and the national priorities in the health section.
2. Practice the specialty concerned ethically and in step with the principles of primary health care.
3. Demonstrate sufficient understanding of the basic sciences relevant to the concerned specialty.
4. Identify social, economic, environmental, biological and emotional determinants of health in a given case, and take them into account while planning therapeutic, rehabilitative, preventive and primitive measure/strategies.
5. Diagnose and manage majority of the conditions in the speciality concerned on the basis of clinical assessment, and appropriately selected and conducted investigations.
6. Plan and advise measures for the prevention and rehabilitation of patients suffering from disease and disability related to the specialty.
7. Demonstrate skills in documentation of individual case details as well as morbidity and mortality rate relevant to the assigned situation.
8. Demonstrate empathy and humane approach towards patients and their families and exhibit interpersonal behavior in accordance with the societal norms and expectations.
9. Play the assigned role in the implementation of national health programme, effectively and responsibly.
10. Organize and supervise the chosen/assigned health care services demonstrating adequate managerial skills in the clinic/hospital or the field situation.
11. Develop skills as a self-directed learner, recognize continuing education needs; select and use appropriate learning resources.



12. Demonstrate competence in basic concepts of research methodology and epidemiology, and be able to critically analyze relevant published research literature.

13. Develop skills in using educational methods and techniques as applicable to the teaching of medical/nursing students, general physicians and paramedical health workers.

14. Function as an effective leader of a health team engaged in health care, research or training.

#### **4.STATEMENT OF THE COMPETENCIES :**

Keeping in view the general objectives of postgraduate training, each discipline shall aim at development of specific competencies which shall be defined and spelt out in clear terms. Each department shall produce a statement and bring it to the notice of the trainees in the beginning of the programme so that he or she can direct the efforts towards the attainment of these competencies.

#### **5.COMPONENTS OF THE POSTGRADUATE CURRICULUM :**

The major components of the Postgraduate curriculum shall be :

- Theoretical knowledge
- Practical and clinical skills
- Thesis skills.
- Attitudes including communication skills.
- Training in research methodology.

**To achieve the above Objectives the teaching and training programme is designed.**

Unlike UG teaching post graduates learning is more by working and being directly involved in all the activities of the department .The stress is more on hands on training to acquire adequate skills to become a consultant in that specialty. However they have to go through structured training programme during 3 years period .The weekly schedule would be like this

1<sup>st</sup> day grand rounds in the wards

2<sup>nd</sup> day journal club

3<sup>rd</sup> day topic review by one post graduate student

4<sup>th</sup> day inter departmental discussion

5<sup>th</sup> day mortality and morbidity review

6<sup>th</sup> day case discussion.

A part from above they will be attending outpatient department and evaluate all the patients and discuss with consultants for planning the investigations and further management.



In surgical disciplines they will be assisting consultants initially and later would be performing surgical procedures under supervision. At the end of three years they will be able to perform routine procedures independently.

They will be participating in the common academic program and regional and national conferences. They are trained to make paper presentations both oral and poster in various conferences.

By doing round the clock duty on certain duty days they will be exposed to emergencies and gain adequate experience to manage acute emergencies.

They also gain teaching experience by teaching undergraduate students both in didactic lectures as well as clinical bedside teaching.

They are posted in basic sciences departments for 2 to 3 months to understand the pathophysiology, applied anatomy, biochemical basis of various disorders and diseases. They will also attend other centers to observe various techniques, methods in the management. It will also fill the gap if there is any deficiency in training. They will maintain a log book where in they record every event they participated during 3 years of their training which will be submitted at the time of their examination. They will also submit a thesis/dissertation on a topic selected to learn the basics of research methodology like literature search, statistical analysis, collecting the data, etc. They are also trained in managerial skills like counseling the patients, preparing discharge summaries, etc.

In short the PG training is comprehensive and inclusive stressing more on self learning: and providing adequate opportunities :

### **2.3.31 Provide the following details about each of the teaching programs:**

- Number of didactic lectures: MBBS: 1860 hrs
- Number of students in each batch: 25- 30 students per batch in every department.
- Number of rotations: 12
- Details of student case study / drug study
- Nursing Care Conference (NCC): Not applicable
- Number of medical / procedures that the students get to see: 10-15
- Mannequins / Simulation / skills laboratory for student teaching: Available
- Number of students inside the operation rooms at a given time: 10-12



- Average number of procedures in the ORs per week, month and year: 50/ week 200 / month , 2400 / year
- Autopsy / Post-mortem facility: Autopsy is done by the department of Pathology.
- Post mortem is in association with Govt medical college, Nellore.

## 2.4 Teacher Quality

### 2.4.1 How does the institution plan and facilitate its faculty to meet the changing requirements of the curriculum?

By conducting medical education workshops regularly the institution has constituted faculty development committee that always monitors and facilitates to meet the changing requirements of the curriculum a clear policy document is made for deputing faculty to conference and for financial assistance of faculty. All the departments conduct continuing medical education programs, PG journal clubs, seminar and symposium which meet changing academic needs to the faculty

### 2.4.2 Does the institution encourage diversity in its faculty recruitment? Provide the following details (department / school-wise).

#### NARAYANA MEDICAL COLLEGE ENCOURAGES DIVERSITY IN FACULTY RECRUITMENT

<i>Sl. No</i>	<i>Department</i>	<i>% Faculty Same Institution</i>	<i>% Faculty Other Institution with in the State</i>	<i>% Faculty from Intitution out side the State</i>	<i>% Faculty from the other Country</i>
1	Anatomy	30	10	60	0
2	Physiology	38	25	38	0
3	Biochemistry	29	29	43	0
4	Pharmacology	10	30	60	0
5	Pathology	8	75	17	0
6	Microbiology	25	63	13	0
7	Forensic Medicine	0	60	40	0
8	Community Medicine	27	18	55	0
9	General Medicine	4	52	44	0

# NARAYANA MEDICAL COLLEGE



10	TB&RD	0	86	14	0
11	D.V.L	0	67	33	0
12	Psychiatry	20	20	60	0
13	Paediatrics	12	47	41	0
14	General Surgery	4	33	63	0
15	Orthopaedics	0	53	47	0
16	Ophthalmology	0	55	45	0
17	E.N.T	0	50	50	0
18	Anaesthesiology	6	65	29	0
19	Radiology	8	8	83	0
20	OB&GY	0	81	19	0
21	Hospital Administration	0	0	100	0
22	Emergency Medicine	0	86	14	0
23	Cardiology	0	13	88	0
24	Neurology	0	25	75	0
25	Nephrology	0	0	100	0
26	Medical Gastro	0	0	100	0
27	Medical Endocrinology	0	25	75	0
28	Neurosurgery	0	0	100	0
29	Urology	25	0	75	0
30	Surgical Gastro	0	33	67	0
31	Plastic Surgery	0	0	100	0
<b>CTVS</b>		815	15.41	815	
<b>TOTAL</b>		<b>7.82</b>	<b>43.54</b>	<b>48.64</b>	0

**Chinthareddypalem, Nellore - 524003, A.P. India**



## **2.4.3 How does the institution ensure that qualified faculty are appointed for new programs / emerging areas of study? How many faculty members were appointed to teach new programs during the last four years?**

Associate Dean-Human Resource regularly monitors the qualified manpower requirement. The Associate Dean-Academics monitors the need of emerging programs to be included in the list of academic programs. If any new programs or programs in emerging areas if started, the dean is empowered to appoint such number of qualified faculties during the period. However, no such programs are added during the said period and no exclusive faculties are appointed. No new programs are started in the last 4 years and accordingly no such faculties are appointed.

## **2.4.4 How many Emeritus / Adjunct Faculty / Visiting Professors are on the rolls of the institution?**

No emeritus professor or adjunct faculty is on the rolls of the institutions and is not a need by the regulatory authority. However Guest lectures are arranged by visiting faculty on average once in a month

## **2.4.5 What policies/systems are in place to academically recharge and rejuvenate teachers? (e.g. providing research grants, study leave, nomination to national/international conferences/seminars, in-service training, organizing national/international conferences etc.)**

The college has drafted and implemented faculty development policy which incorporates steadily and policy for attending national / international conferences, research seed money study leave, use of laboratories and library facilities and internet facilities

## **2.4.6 How many faculty received awards / recognitions for excellence in teaching at the state, national and international level during the last four years?**

Seventy two awards were received by faculty. In addition college has received following distinct recognitions

Indo Healthcare Summit 2015 – Indus Foundation USA and Hon'ble Governor of Andhra Pradesh Sri. Narasimham has presented

Best Education Training Institution Award to Narayana Medical College and Hospitals.



2. Dr. Katoch, Spl. Secretary to Government of India and ICMR Director General has awarded Gold medal for best research paper to Dr. Pradeep, Surgical Endocrinologist, Narayana Medical College and Hospital.
3. Memorandum of understanding with University of North Texas and research work on Vanadium and thrombosis is being done.
4. PMT assessment in 2013, Narayana Medical College is in No: 12 of the Top 100 Medical Colleges.
- 5-6 Citation Performance of the Neurology training institution in India Narayana Medical College & Hospital is 15<sup>th</sup> position and in Neurosurgery is 13<sup>th</sup> position, where as JIPMER, Pondicherry is 15<sup>th</sup> position. -
- 7-11 Department of Gynaecology & Obstetrics Narayana Medical College & Hospital and Professor Hymavathi name is published in Limca Book of records 2015 and also Miracles of world records.
12. Invitation has been extend to the Director to speak on Indian Science Congress 2014 on “Nutrition and Cardio Vascular diseases and Fortification of food”.
13. DSIR accorded recognition to Narayana Medical College in 2012 and 2015.
14. Director General of ICMR has sent a letter for sending expert committee for evaluate and to consider Micro Nutrient Research Centre in Narayana Medical College.
- 15- Awards Received at the University competition Best presentation award 2013. Vikrama Simhapuri University & SV University 2013.

## **2.4.7 How many faculty underwent professional development programs during the last four years? (add any other program if necessary)**

The institution has constituted committee for faculty development under associated dean's academics. This committee draws the policies procedures practice, and KRAs for the functioning. Few of the faculty development activities are through conducted in the conferences, attending the conferences, participating and presenting in seminars and symposium. All the departments conduct journal clubs and research methodology sessions. Following are the activities conducted : Conference and workshops conducted 318 Conferences attended by the faculty 501 ,Seminars conducted 7237 Journal clubs conducted 4485



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## **2.4.8 How often does the institution organize academic development programs (e.g.: curriculum development, teaching-learning methods, examination reforms, content / knowledge management, etc.) for its faculty aimed at enriching the teaching-learning process?**

The medical education technology cell is involved in providing necessary interactions for curriculum development and teaching learning evaluation and reforms once in a year

### **Academic Activities of Dept of Medical Education & Faculty Development**

#### **Narayana Medical College, Nellore**

1. World Breast Feeding week was celebrated on 3-8-2010. A rally was conducted in urban field practice area. Health Education session was organized by Dr.V.Chandraskhar, Head of Community Medicine for the benefit of lactating mothers. An academic programme was organized in the afternoon. Dr.Suraj Gupte, Head of Paediatrics, and Dr.V.Chandrasekhar, Head of Community Medicine discussed the importance of breast feeding. About 200 medical and nursing students attended the programme.
2. National Child Nutrition Week was celebrated on 4<sup>th</sup> September, 2010. A rally was conducted in the urban field practice area. A health education session was organized by Dr.V.Chandrasekhar, Head of Community Medicine for the benefit of mothers in the community. In the afternoon, an academic session was organized. Dr.Suraj Gupte, Head of Paediatrics and Dr.V.Chandrasekhar, Head of Community Medicine discussed the importance of child nutrition. About 100 medical and nursing students attended the programme.
3. World Alzheimer's Day was observed on 21 Sept, 2010. A rally was conducted in the urban field practice area. An academic programme was conducted in the afternoon. Dr. Bindu Menon, Head of Neurology, Dr.V.Chandrasekhar, Head of Community Medicine discussed the problem. About 100 medical and nursing students attended the programme.
4. National Education Day was celebrated on 11-11-2010. The problem of Diabetes was discussed by Dr.Venkata Krishnan, Head of Medicine and Dr.V.Chandrasekhar, Head of Community Medicine. Diabetes was selected since 14 Nov happens to be World Diabetes Day. About 150 medical and nursing students attended the programme.
5. World AIDS Day was observed on 1<sup>st</sup> December, 2010. A rally was conducted in the urban field practice area. A health education session for the community was organized by Dr.V.Chandrasekhar. An academic programme was conducted in the afternoon. About 100





medical and nursing students attended the programme. Dr.V.Chandrasekhar, Head of Community Medicine and Dr.Vijaya Mohan Rao, Head of DVL discussed the problem. About 100 medical and nursing students attended the programme.

6. A 3-Day Basic Level 1 Workshop on Medical Education Technologies was organized from 27 to 29 December, 2010. This is an MCI-accredited Workshop. Dr. Sham Sundar, former Vice Chancellor of Dr.NTRUniversity of Health Sciences and Dr.T.Venugopal Rao, Registrar, Dr.NTRUniversity of Health Sciences, have graced the function. About 40 faculty members were trained. Dr.PV.Chalam, Professor of Surgery, Gandhi Medical College, Secunderabad, Dr.GVSS.Subrahmanyam, Professor of Paediatrics, Niloufer Hospital, Hyderabad, Dr.Venkatachalam, Associate Professor of Cardiology, Andhra Medical College, Visakhapatnam and Dr (Mrs).C.Jyothi were the Resource Persons.

7. World TB Day was observed on 24<sup>th</sup> March, 2011. A rally was conducted in the urban field practice area and an academic programme was organized in the afternoon. About 100 medical and nursing students attended the programme. Dr.V.Chandrasekhar, Head of Community Medicine and Dr.Gowrinath Head of Pulmonary Medicine discussed the problem of tuberculosis and RNTCP.

8. World Health Day was celebrated on 7<sup>th</sup> April, 2011. A rally was conducted in the urban field practice area in the morning. An academic session was organized in the afternoon. The problem of drug resistance was discussed by Dr.V.Chandrasekhar, Head of Community Medicine, Dr.B.L.Kudagi, Head of Pharmacology and Dr.Venkata Krishnan, Head of Medicine.

9. On 23 June, 2011, an orientation session on how to select a topic for Dissertation and submit Protocol, was discussed for the benefit of the new batch of postgraduates. About 90 postgraduates attended the programme. Dr.V.Chandrasekhar, Dr.B.V.Subrahmanyam, and Dr.B.L.Kudagi were the Resource Persons.

10. One-day Orientation session on Pedagogy and Lesson Plan was organized for the benefit of the faculty members, on 27 July, 2011. Dr.V.Chandrasekhar, Dr.B.V.Subrahmanyam, Dr.B.L.Kudagi and Dr.P.Srinivasulu Reddy were the Resource Persons.

11. How to write a Dissertation was organized for the benefit of the final year postgraduates, on 24 Aug, 2011. About 80 postgraduates attended the programme. The Resource Persons were Dr.V.Chandrasekhar, Dr.B.V.Subrahmanyam and Dr.B.L.Kudagi.



12. On 27 Aug, 2011, Dr.Alladi Mohan, Professor of Medicine, Sri Venkateswara Institute of Medical Sciences, Tirupati, was invited to give a guest lecture on how to write a Scientific Paper for publication. About 200 faculty members attended the programme.

13. Dr.V.Chandrasekhar, Coordinator of Medical Education Unit, attended the National Conference in Medical Education (NCHPE - 2011), organized by the Christian Medical College, Vellore, from 14 to 16 Sept, 2011. He presented a scientific paper on our experience of Workshop in Medical Education, which was received well by the delegates and the organizers.

14. On 21 Sept, 2011, World Alzheimer's Day was observed. A rally was conducted in the urban field practice area, by Dr.V.Chandrasekhar, Professor & Head of Community Medicine. In the hospital, memory testing and health education for the benefit of the patients was organized by Dr.Bindu Menon, Head of Neurology. In the afternoon, an academic session was organized. Dr.Bindu Menon, Head of Neurology, Dr.Harihar, Head of Psychiatry and Dr.V.Chandrasekhar, Head of Community Medicine conducted the academic programme for the benefit of faculty, medical and nursing students. Nursing students presented a skit on the problems of Alzheimer's patients. A care-giver of Alzheimer's patient, spoke about her experience. About 100 medical and nursing students participated in the day.

15. 3-Day Basic Level 1 Workshop on Medical Education Technologies is organized from 30 Nov, 02 Dec, 2011. It is MCI accredited Workshop. Permission was taken from Dr.M.Rajalakshmi, Chief Consultant, Academic Cell, Medical Council of India, N. Delhi. Dr.P.V.Chalam, Convener, MCI Regional Center for Faculty Development, MET Unit, Gandhi Medical College, Secunderabad, was sent by the MCI to observe the proceedings. 21 faculty members were trained. Five Resource Persons attended from other Medical Colleges.

16. On 11 Feb, 2012, one-day seminar on Recent Advances in Cancer Management was organized for the benefit of the postgraduates and the faculty members. Dr.M.Babaiah, Director, Yashoda Cancer Institute, Hyderabad, gave a guest lecture on the various developments that occurred in the diagnosis and management of Cancers. He focused on the latest state-of-the art technological advances made, which can identify cancers very accurately in the initial stages of development as well as, our ability to treat cancers much more successfully, so that the survival rates have drastically improved; sometimes, even cure is assured. About 130 faculty and postgraduates attended the programme.



17. On 16<sup>th</sup> & 17<sup>th</sup> July, 2012, a State Level Workshop is organized on Biostatistics & Epidemiology. The following six Resource Persons conducted the discussions. Dr.Alladi Mohan, Professor of Medicine, Sri Venkateswara Institute of Medical Sciences, Tirupati, Dr.B.V.Subrahmanyam, Professor & Head of Forensic Medicine, Narayana Medical College, Nellore, Dr.K.T.Harichandra Kumar, Professor of Biostatistics, JIPMER, Puducherry, Dr.P.Marimuthu, Additional Professor of Biostatistics, NIMHANS, Bangalore, Dr.Girish N. Rao, Additional Professor of Epidemiology, NIMHANS, Bangalore, Dr.B.Antonisamy, Professor of Biostatistics, CMC, Vellore and Dr.Prasanna Samuel, Assistant Professor of Biostatistics, CMC, Vellore.

About 140 postgraduates and faculty members from all over Andhra Pradesh attended.

18. A one-day workshop on 11 Sept, 2012, on how to select a topic for Dissertation and submit the Protocol was organized for the new postgraduates who joined last month. Dr.V.Chandrasekhar, Head of Community Medicine and Dr.B.V.Subrahmanyam, Head of Forensic Medicine, discussed about how to select a topic, how to prepare a protocol and submit it.

a. A one day workshop was organized on 26 Sept, 2013, on how to write Dissertation for the benefit of the final year postgraduates. About 100 postgraduates attended the programme. Dr.V.Chandrasekhar, Head of Community Medicine, Dr.Amith Aggarwal, Head of Neurosurgery and Dr.B.V.Subrahmanyam, Head of Forensic Medicine discussed about the problems of writing dissertation, formatting of the write up etc, in detail.

19. Dr.V.Chandrasekhar, Coordinator of Medical Education Unit, participated in the State Level Workshop on Medical Education organized at S.V Medical College, Tirupati, on 29 and 30 Jan, 2013. He was a Resource Person in a Workshop of Principals on NAAC Accreditation. He chaired a Scientific Session of Award Papers of Postgraduates. And he was one of the judges for the same session, as well.

A 2-day National Conference was organized on 23 and 24 March, 2013 on the Role of Medical Colleges in National Medical Research. More than 200 faculty members and postgraduates registered as delegates. The following eminent doctors and scientists of international and national repute were invited to give lectures. On 23 the conference was inaugurated by Dr.Ramesh Chandra Deka, Director All India Institute of Medical Sciences, N.Delhi. In the key note address he discussed about the role of medical colleges in research activities. Dr.Thyagarajan, Professor of Eminence & Dean (Research), Sri Ramachandra Medical University, Chennai, discussed about the research activities in India, how to go for



funding, what are the different types of studies, etc. The next speaker on 23 was, Dr.Bhaskar, Professor of Zoology, S.V University. He told us about the world class research activities. He presented activities of the Universities like Harvard, Cambridge, Oxford etc, in great detail. On 24 the first speaker was Dr.Adithan, Professor & Head of Pharmacology, JIPMER, Puducherry. He gave excellent information on how to go for funding, what are the different agencies and departments that may provide funds etc in great detail. The last, but not the least, lecture was by Dr.K.Madhavan Nair, Scientist E, National Institute of Nutrition, Hyderabad. He discussed about research done by NIN especially in the field of micronutrients. The 2-day conference was a grand success.

20. A one-day workshop on how to write Dissertation was organized for the benefit of the Final year postgraduates on by the in-house faculty, on 18 Sept, 2013. The following Resource Persons discussed the nuances of writing Dissertation. Dr.V.Chandrasekhar, Professor & Head of Community Medicine, Dr.B.L. Kudagin Professor & Head of Pharmacology and Dr. B.V. Subrahmanyam, Professor & Head of Forensic Medicine. The programme went off well. About 120 postgraduates attended this programme.

21. CME on Prevention of Parent to Child Transmission of HIV/AIDS (PPTCT) was organized for the students on 23 Oct, 2013. The following faculty members conducted the CME. Dr.V.Chandrasekhar, Professor & Head of Community Medicine, Dr. M. Anitha, Professor & Head of Obstetrics & Gynaecology, Dr. Y. Venugopala Sharma, Professor & Head of Paediatric Medicine and Dr. P. Srinivasulu reddy, Professor & Head of Microbiology. They discussed about the revised guidelines of prevention of 2012. About 120 students attended the programme.

22. CME on Prevention of Parent to Child Transmission of HIV/AIDS (PPTCT) was organized for the Postgraduates and CRRIs on 26 Oct, 2013. The following faculty members conducted the CME. Dr.V.Chandrasekhar, Professor & Head of Community Medicine, Dr. M. Anitha, Professor & Head of Obstetrics & Gynaecology, Dr. Y. Venugopala Sharma, Professor & Head of Paediatric Medicine and Dr. P. Srinivasulu reddy, Professor & Head of Microbiology. They discussed about the revised guidelines of prevention of 2012. About 110 postgraduates and interns attended the programme.

23. CME on Prevention of Parent to Child Transmission of HIV/AIDS (PPTCT) was organized for the faculty members on 30 Oct, 2013. The following faculty members conducted the CME. Dr.V.Chandrasekhar, Professor & Head of Community Medicine, Dr. M. Anitha, Professor & Head of Obstetrics & Gynaecology, Dr. Y. Venugopala Sharma,



Professor & Head of Paediatric Medicine and Dr. P. Srinivasulu reddy, Professor & Head of Microbiology. They discussed about the revised guidelines of prevention of 2012. About 90 faculty members attended the programme.

24. A one-day workshop on how to select a topic for dissertation and submit the Protocol (Proposal) was organized for the benefit of the First year postgraduates, by the in-house faculty on 28 Nov, 2013. The following Resource Persons discussed the topics. Dr.V.Chandrasekhar, Professor & Head of Community Medicine, Dr.B.L. Kudagin Professor & Head of Pharmacology and Dr. B.V. Subrahmanyam, Professor & Head of Forensic Medicine. The programme went off well. About 120 postgraduates attended this programme.

25. A 2-day workshop on Research Methodology with a focus on Traumatic Brain Injury was organized on 14 and 15 June, 2014. This programme was partially supported by the ICMR. The following Resource Persons came from outside. Dr. Adithan, JIPMER, Dr. Ajit Sahai, JIPMER, Dr.Dhaval Kishore, NIMHANS. The following local faculty also participated as Resource Persons. Dr.V.Chandrasekhar, Professor & Head of Community Medicine & Medical Education, Dr.KSVK.Subba Rao, Hospital Administrator, Dr.B.V.Subrahmanyam, Professor & Head of Forensic Medicine, Dr.Amth Aggarwal, Professor & Head of Neuro-Surgery, Dr.Surya Prakash Rao, Professor & Head of Genito-Urinary Surgery, and Dr.Rajasekhar, Addl. Professor of Oral and Facio-Maxillary Surgery. 150 postgraduates and faculty members attended the programme.

26. A CME Programme on Prevention & Control of Sexually Transmitted & Reproductive Tract Infections (STI/RTI Training Programmes) were organized on 11, August, 2014. Dr.V.Chandrasekhar, Professor & Head of Community Medicine, Dr.M.Anitha, Professor & Head of Gynaecology, Dr.A.Vijaya Mohana Rao, Professor of Dermatovenereology, Dr. Naga Sahithi, Postgraduate of DVL, and Dr. P.Srinivasulu Reddy, Professor & Head of Microbiology were the Resource Persons. About 100 medical, students in three batches attended the programmes.

27. A CME Programme on Prevention & Control of Sexually Transmitted & Reproductive Tract Infections (STI/RTI Training Programmes) were organized on 12, August, 2014. Dr.V.Chandrasekhar, Professor & Head of Community Medicine, Dr.M.Anitha, Professor & Head of Gynaecology, Dr.A.Vijaya Mohana Rao, Professor of Dermatovenereology, Dr. Naga Sahithi, Postgraduate of DVL, and Dr. P.Srinivasulu Reddy, Professor & Head of



Microbiology were the Resource Persons. About 100 medical students in three batches attended the programmes.

28. A CME Programmes on Prevention & Control of Sexually Transmitted & Reproductive Tract Infections (STI/RTI Training Programmes) were organized on 13, August, 2014. Dr.V.Chandrasekhar, Professor & Head of Community Medicine, Dr.M.Anitha, Professor & Head of Gynaecology, Dr.A.Vijaya Mohana Rao, Professor of Dermatovenereology, Dr. Naga Sahithi, Postgraduate of DVL, and Dr. P.Srinivasulu Reddy, Professor & Head of Microbiology were the Resource Persons. About 100 medical, students in three batches attended the programmes.

29. A one-day orientation programme on how to write dissertation was organized for the benefit of the final year postgraduates on 26 Sept, 2014. About 120 postgraduates attended the programme. Dr.V.Chandrasekhar, Head of Medical Education started the programme by giving a brief introduction and a bird's eye view of the topic. This was followed by Dr.Amith Aggarwal, Professor & Head of Neuro-Surgery, who discussed in detail various aspects of writing dissertation.

In the last session, Dr.B.V.Subrahmanyam, Professor & Head of Forensic Medicine, discussed about various ethical aspects like, plagiarism, in addition to acknowledgements, references etc.

30. A one-day workshop on How to Select Topic for Dissertation & Submit the Protocol(Proposal) was organized for the benefit of the first year postgraduates of Narayana Medical Institutions on 07 Nov, 2014. About 90 postgraduates of medicine, dentistry and nursing attended the programme. The following three in-house Resource Persons discussed the topic. Dr.V.Chandrasekhar, Professor & Head of Community Medicine & Medical Education, Dr. B.V. Subrahmanyam, Professor & Head of Forensic Medicine and Dr. Amit Aggarwal, Professor & Head of Neuro-Surgery. Dr.Chandrasekhar gave a brief introduction and an over view of the problem. He discussed how to select the topic and the different steps involved in writing the protocol. Dr. Aggarwal discussed in detail about the aims and objectives, methodology, web-based search for literature etc. Finally Dr.Subrahmanyam discussed the ethical aspects like taking informed consent, getting the proposal cleared by the Institutional Ethics Committee (IEC), etc.

31. World diabetes Day was celebrated on 20 November, 2014. An Awareness Programme was organized jointly by the Departments of Nephrology, Genito Urinary Surgery and Endocrinology. About 300 persons consisting not only of medical, personnel but also





patients and their families and general public and private practitioners attended the programme. Dr. G.V. Nagi Reddy, Principal, and Dr. Vijaya Mohan Reddy, Chief Executive Officer, inaugurated the programme. Dr. Sampath Kumar, Neurologist, Dr. Amaresh Reddy, Endocrinologist, Dr. Praveen Kumar, Nephrologist, Dr. Surya Prakash, GenitoUrinary Surgeon, Dr. G. Chandrasekhar, Opthmologist discussed in detail the problems due to diabetes, with a focus on proper regular treatment and prevention.

32. A Faculty Development Programme, a Workshop was organized by the Department of Medical Education on 05 December, 2015. The theme of the workshop was, Evaluation Methodology.

About 40 senior faculty members attended the programme. The following dignitaries attended this programme as visitors. 1. Dr. Shantha Rao, Director of Medical Education of A.P., 2. Dr. Ravi Raj, Vice Chancellor of NTR University of Health Sciences, Vijayawada, and Sri. Panduranga Rao, Retired Judge, High Court, Chairman, High Power Committee. Dr. V. Chandrasekhar, Head of Medical Education, Dr. B.V. Subrahmanyam, Head of Forensic Medicine, Dr. Amith Aggarwal, Head of Neuro-Surgery, were the Resource Persons. The group discussed about the methods of Evaluation, their advantages and disadvantages, in detail.

33. A CME Programme on Update of Nephrology was organized on 09 Dec, 2014, by the Departments of Nephrology, Genito Urinary Surgery. Dr. Praveen Kumar, Head of Nephrologist, Dr. Surya Prakash, Head of Genito Urinary Surgery, Dr. Dr. Swarnalatha, Professor & Head of Pathology, Apollo Hospitals, Hyderabad, Dr. Basu Gopal, Professor of Nephrology, CMC, Vellore, Dr. Dolly, Professor of ImmunoPathology, CME, Vellore discussed the various aspects of renal diseases. About 100 doctors, faculty and others attended the programme.

34. An Update on Neuro-Radiology was organized by the department of Nephrology. Dr. Sampath Kumar, Neurologist organized this programme. About 102 doctors, faculty attended this programme.

35. A Brain Strom Session by the department of Neurology was organized on 11 Jan, 2015. Dr. Sampath Kumar, Neurologist was the organizer. About 102 doctors, students and others attended this programme.

36. An Update on Swine Influenza was organized on 28 Jan, 2015. Dr. V. Chandrasekhar, Propfessor & Head of Community Medicine discussed about the epidemiology. Dr. Venkata Krishnan, Professor & Head of General Medicine discussed the clinical aspectsd. Dr. Vignan



Kumar, Associate Professor of Pulmonology discussed the pulmonary aspects. Dr. K. Raghu, Assistant Professor of Emergency Medicine discussed about the emergency care. Nearly 200 students and faculty attended the programs.

37. World Kidney Day was celebrated on 12 March, 2015 by the department of Nephrology. Mrs. Janaki, District Collector & Magistrate, and Dr. Bharathi Reddy, DM&HO were the special invitees. Dr. Natgi Reddy, Dr. Vijaya Mohan Reddy, CEO, Dr. G. Subrahmanyam, Director, Dr. Sampath Kumar. Nephrologist, Dr. Surya Prakash Rao, Genito Urologist discussed the various problems of kidney diseases in great detail. About 100 people attended the programme.

38. A Workshop on RT PCR, Chromatography, Diagnostic Applications was organized on 26 March, 2015. RT PCR and Chromatography, their applications etc were discussed by the Scientists of Advanced Central Lab. About 50 doctors and scientist attended this programme.

39. A CME on Uro-Oncology was organized by Dr. Surya Prakash Rao, Head of Genito Urinary Surgery, 04 April, 2015. About 100 people attended this programme. It was a grand success.

## **2.4.9 Does the institution have a mechanism to retain faculty? What is the annual attrition rate among the faculty?**

The faculty development committee has initiated policy documents for a faculty retention and got it approved by the authority. The management makes every effort to retain such distinguished faculty on their list of faculty. Appropriate actions are initiated to retain the faculty by providing an academic ambience of excellence, ample ICT facilities, good research facilities and encouragement for professional development activities. Associate dean in human resource, considering the performance appraisal, initiates discussion with the distinguished faculty and the issues are sorted out on win-win basis with respect to individual such faculties and faculties are retained. the college has drafted policy guidelines for retention of the faculty

### **ANNUAL ATRITION RATE OF TEACHING & NON TEACHING STAFF – REPORT**

TEACHING STAFF						
	2015 UNTIL	2014	2013	2012	2011	2010





	JULY					
<b>PROFESSOR</b>	4.3 %	3.5 %	4 %	3.8 %	4.2 %	4.5 %
<b>ASSOCIATE PROFESSOR</b>	4 %	2.8 %	3.4 %	4 %	4.1 %	4.3 %
<b>ASSITANT PROFESSOR</b>	3.6 %	4.5 %	3.7 %	3.1 %	4 %	4.2 %
<b>TUTOR</b>	2 %	3.4 %	4.4 %	4.2 %	3.3 %	3.2 %

NON TEACHING STAFF						
	2015 UNTIL JULY	2014	2013	2012	2011	2010
	12.3 %	21 %	24 %	23 %	22 %	27 %

## 2.4.10 Does the institution have a mechanism to encourage

- \* mobility of faculty between institutions /universities for teaching/research?
- \* faculty exchange programs with national and international bodies?

## If yes, how have these schemes helped in enriching the quality of the faculty?

No, the college being affiliated to health science University and controlled by apex bodies follows only such guidelines applicable are mobility of faculty

## 2.4.11 Does the institution have well defined career advancement policy for Health Science professionals? If yes, outline the policy.

No, The carrier advancement policy for health and professional is drafted by apex bodies and being implemented by the concerned colleges

## 2.4.12 How does the institution create synergies with other PG institutes for generating required number of specialists and super specialists?

Yes, the college practices synergy with other PG institutes by contributing the highly skilled



super specialists in varied advanced specialties of healthcare system. After successfully completing the training these provide the energy in education service and research with other PG institutes

## **2.4.13 Does the institution conduct capacity building programs / courses in subspecialties for its faculty?**

Yes, the college provides capacity building in infrastructure services and research specialty wise and has clear mechanism to train the PG most of the specialty

## **2.5 Evaluation Process and Reforms**

### **2.5.1 How does the institution ensure that all the stakeholders are aware of the evaluation processes that are in place?**

The college conducts orientation programs for the fresh PG and UG students, during the process, the academic calendar course objectives, course schedules including methods of evaluation are communicated and necessary manuals are provided to the learners. The academic calendar examination schedules also oriented to parent during parents meet for better coordination.

### **2.5.2 What are the important examination reforms implemented by the institution? Cite a few examples which have positively impacted the examination system.**

Apart from the evaluation both internal and annual, periodic assessments is done by evaluating the students by weekly tests, monthly tests and part completion tests which have improved their pass percentage and even there is lot of improvement in their grades

### **2.5.3 What is the average time taken by the University for Declaration of examination results? In case of delay, what measures have been taken to address them? Indicate the mode adopted by the institution for the publication of examination results (e.g. website, SMS, email, etc.).**

The University, affiliated to the college declares the results of the examination in a span of 1-2 months. The institution declares the results of weekly test results by displaying in the notice boards, by displaying in website of the college and SMS the results to parents mobile numbers



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## 2.5.4 How does the institution ensure transparency in the evaluation process?

The Affiliated University has introduced double valuation in paper valuation and bar coding system in decoding the answer scripts. The examination hall is provided with jammers, CCTV surveillance. The students are not allowed in the examination hall 15 min before examination. The examination hall is provided with a movement register for the any students permitted for the toilets.

## 2.5.5 What are the rigorous features introduced by the University to ensure confidentiality in the conduct of the examinations?

The Affiliated University has introduced double valuation in paper valuation and bar coding system in decoding the answer scripts . The examination hall is provided with jammers, CCTV surveillance. The students are not allowed in the examination hall 15 min before examination. The examination hall is provided with a movement register for the any students permitted for the toilets.

The question paper is sent online 15 min before the examination with a password & decoded only by the chief superintendent of the examination. All the University examinations are scrutinized with special observer appointed by the University until packing and dispatching of the answer scripts. No students are allowed to enter the exam hall once the paper is downloaded. All the examination halls are fitted with CCTV and Jammers for surveillance. All the students are checked before entering the exam hall for any presence of electronic gadgets.

## 2.5.6 Does the institution have an integrated examination platform for the following processes?

- \* pre-examination processes – Time table generation, hall ticket, OMR, student list generation, invigilators, squads, attendance sheet, online payment gateway, online transmission of questions and marks, etc.
- \* Examination process – Examination material management, logistics, etc.
- \* Post-examination process – Attendance capture, OMR-based exam result, auto processing, result processing, certification, etc.

**Pre-examination:** The time table is declared by the University as per the academic calendar. The applications are filled by the students in the institution and submitted to the university. The hall tickets are generated by the University based upon the eligibility of the students



before the examination. The student galley, OMR sheets, answer scripts are sent by the university.

**Examination process:** The hall tickets are issued to the students by the academic section after getting signed by the principal. The students are permitted in to the examination hall only with hall ticket. No student is permitted in to the exam hall 15 min before time of examination. The examination is done in the presence of invigilators [one /20 students] strictly and along with chief superintendent and observer appointed by University. The attendance of the students is taken by the invigilators and report signed by the chief superintendent and submitted to the university.

**Post examination:** The answer scripts are collected and packed in serial number of the galley with duly signed by the chief superintendent and the observer. The answer bundles are sent to the University immediately after the examination by speed post.

**Results:** The answer scripts are decoded in the University and sent to the corresponding colleges for valuation. The valued answer scripts are decoded

## **2.5.7 Has the University / institution introduced any reforms in its evaluation process?**

The institution conducts the examination in the presence of HODS and valuation is done by the Head of the departments.

## **2.5.8 What is the mechanism for redressal of grievances with reference to examinations? Give details.**

A committee under associate dean academics deals with Redressal of grievances with reference to examinations

## **2.5.9 Does the institution have a Manual for Examinations and if yes, does it specifically take cognizance of examination malpractices by students, faculty and non-teaching staff?**

The college is affiliated to University of health sciences, the college is accountable and empowered to comply to the University regulations of examinations. The affiliating University has maintained all such mechanisms and processes



**2.5.10 What efforts have been made by the University to streamline the operations at the Office of the Controller of Examinations? Mention any significant efforts which have improved the process and functioning of the examination division/section.**

An associate dean examination is designated with his separate section with appropriate manpower, computers to coordinate with University controller of examinations and look into the grievances of students pertaining to examination

**2.5.11 What are the efforts of the institution in the assessment of educational outcomes of its students? Give examples against the practices indicated below:**

The college is affiliated to University of health sciences; the college is accountable and empowered to comply to the University regulations of examinations. The affiliating University has maintained all such mechanisms and processes

**Compatibility of education objectives and learning methods with assessment principles, methods and practices.** Assessment principles, methods and practices are well documented in affiliating University and MCI ordinances specific for each program. However any deficiencies are remedied through enrichment programs implemented by each department

**b. Balance between formative and summative -formative (internal assessment) and summative (university examinations)** evaluations are properly balanced for each subject evaluations

**c. Increasing objectivity in formative evaluations**

Objectivity in formative evaluations is induced by practices to consider performance parameters like, attendance, completed clinical and home assignments, participation in co-curricular activities, student projects, community integrated activities, CPA Card and PG log book

**d. Formative (theory / orals / clinical / practical) internal assessment; choice based credit system; grading / marking.**

Formative internal assessment is based on marking method.

**e. Summative (theory / orals / clinical / practical)**

Summative examinations are conducted by the affiliating University two times in a year.

Two examiners are appointed by the University to conduct practical's and vivavoce exams in each subject at MBBS. Of the two one is internal who is faculty of the college and other is external necessarily from colleges outside Nellore .

At Post Graduate examinations four examiners are appointed of which two are internal and



two externals are from the colleges outside the affiliating university.

The examiners who conduct examinations need to evaluate theory answer scripts.

**f. Theory – structure and setting of question papers – Essays, long answers, shorts answers and MCQs etc. Questions bank and Key answers.**

## **SCHEME OF IST PROFESSIONAL EXAMINATION: PRE-CLINICAL SUBJECTS**

[Biochemistry, Anatomy & Physiology-Two Papers Each]

Duration : 150 Minutes

1. One Structured Question :10mks,
2. One Applied Question :10 Mks
3. 5 Short Answer Type [5x4 =20 Mks]
4. 5 Brief Answer Type Questions[5x2 =10 Mks]

## **Scheme Of Ii Professional Examination: Para-Clinical Subjects**

[Pharma, Micro, Patho &Forensic Medicine]

Duration : 2 Hrs Each Of Two Papers Except Forensic Medicine.

1. One Structured Question : 10 Mks
2. 5 Short Answer Type [5x4 =20 Mks]
3. 5 Brief Answer Type[5x4 =10 Mks]

## **Scheme Of Ii MBBS Part-I Professional Examination: Clinical Subjects [Ent, Ophthalmology &Spm]**

Time :Ent &Ophthalmology: 2hrs One Paper Only.

Spm : Two Paers Three Hours Duration.

### **Ent &Ophthalmology:**

**QP**

1. One Strucured Question :10 Mks
2. 5 Short Answer Type [5x4 =20 Mks]
3. 5 Brief Answer Type[5x4 =10 Mks]

**Spm :** Each Paper Has Two Sections& Each Section Consists Of : One Strucured Question :10 Mks

5 Short Answer Type [5x4 =20 Mks]

## **Scheme Of II MBBS Part-II Professional Examination:**

**[General Medicine,Surgery,Obgy ,Paediatrics]**

Medicine & Surgery Have Two Paers Of 60 Mks Each With Two Sections Each Of 3 Hrs Duration.

Each Section Consists Of:



One Structured Question:10 Mks

5 Short Answer Type [5x4 =20 Mks]

**Gynecology &Obstetrics Have 2 Papers Of 40 Mks Each, Time :2 Hrs**

1. One Structured Question :10 Mks

2. 5 Short Answer Type [5x4 =20 Mks]

3. 5 Brief Answer Type[5x4 =10 Mks]

**Paediatrics Has One Paper Of 40 Mks, Time :2 Hrs.**

1. One Structured Question :10 Mks

2. 5 Short Answer Type [5x4 =20 Mks]

3. 5 Brief Answer Type[5x4 =10 Mks]

Pattern Of Examinations & Marks Distribution.In Ntruhs Examination							
Examination	Subject	Theory [External]		Internals	Practicals	Viva Voice	Total
		Paper-I	Paper-II				
Ist MBBS	Anatomy	50	50	40	40	20	200
	Biochemistry	50	50	40	40	20	200
	Physiology	50	50	40	40	20	200
II MBBS	Pharmacology	40	40	30	25	15	150
	Microbiology	40	40	30	25	15	150
	Pathology	40	40	30	25	15	150
	Forensic Medicine	40	-----	20	20	10	100
IIIMBBS Part-I	Ent	40	-----	20	30	10	100
	Ophthalmology	40		20	30	10	100
	Spm	60	60	40	30	10	200
IIIMBBS Part-II	General Medicine	60	60	60	100	20	300
	General Surgery	60	60	60	100	20	300
	Obstetrics	40	40	40	50	30	200
	Paediatrics	40	-----	20	30	10	100

**Criteria To Pass:**

1)Theory &Orals(Viva) Together: 50%

2) Practicals : 50%



**3)Internal :35% For Eligibility**

**Aggregate: 50%**

## **g. Objective Structured Clinical Examination (OSCE)**

This system is followed

**2.5.12 describes the methods of prevention of malpractice, and mention the number of cases reported and how are they dealt with?**

All our examination halls are monitored by CCTV cameras and so far no cases of malpractice are reported

## **2.6. Student Performance and Learning Outcomes**

The pass percentage at UG as well as PG is always between 80 to 90% along with top ranks at university.

Refer page no. 234 for details of result analyses **MBBS EXAMINATIONS RESULTS**

**2.6.1 Has the institution articulated its Graduate Attributes? If so, how does it facilitate and monitor its implementation and outcome?**

Students are trained in such a way that when they become doctors they should follow moral, ethical, legal principles in providing health care in the community they live in

Program wise course wise UG as well as Post graduate attributes are defined and available in office and these will be dealt in the respective courses orientation programs to the students

**2.6.2 Does the institution have clearly stated learning outcomes for its academic programs/departments? If yes, give details on how the students and staff are made aware of these?**

Yes. The students and teachers are provided with Academic calendar. Micro planning is done for the entire curriculum providing all the learning objectives at various levels

**2.6.3 How are the institution's teaching-learning and assessment strategies structured to facilitate the achievement of the intended learning outcomes?**

This is evaluated by assessing the performance of Alumni and their achievements both academically and in clinical practice.

Bases on the learning outcomes the contents and learning experiences are chosen designed and implemented including mode of content delivery and evaluation of learning outcome is





included such case, hence by implementing the course content to specified method of content delivery learning is assured.

## **2.6.4 How does the institution ensure that the stated learning outcomes have been achieved?**

Based on the performance of the students in regular internal assessment examinations, weekly tests, viva-voice, written examination, home assignments, and University examinations and through continuous performance assessment Performa in each designed and implemented by the college. Ascertains the attainment of stated learning outcome by the learner. In few of the distinct courses and programs, course specific learning outcomes assessments are initiated.

*Any other information regarding Teaching-Learning and Evaluation which the institution would like to include.*



**CRITERION III: RESEARCH,  
CONSULTANCY AND  
EXTENTION**



## CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION

### 3.1 Promotion of Research

**3.1.1 Is there an Institutional Research Committee which monitors and addresses issues related to research? If yes, what is its composition? Mention a few recommendations which have been implemented and their impact.**

Yes.

#### Research Committee

Name	Designation
Dr. B.V. Subrahmanyam	Chairman
Dr. Roop Kumar	Co-Chairman
Dr. Mehaboob Vali Shaik	Member
Dr. P. Sreenivasa Rao	Member
Dr. Ramalingam	Member
Dr. Surya Prakash	Member
Dr. S. Vijay Kumar	Member Coordinator

Research Faculty NMC.

Regular review meetings for every three months , encouraging publications , remuneration for publications – National – Rs/5,000 & International Rs / 10,000, promotion of research awards.

**3.1.2 Does the institution have an institutional ethics committee to monitor matters related to the ethics of inclusion of humans and animals in research?**

Yes,

Human Ethical Committee members

Prof . M. Bhaskar	Chairman
Dr. G. Subramanyam	Member
Dr. N. Veera Nagi reddy	member
Dr. P.Narasimha Reddy	Member
Dr. S.V.K . Subba Rao	Member
Dr. Amit Agarwal	Member
Dr. B. Madhavulu	Member
Dr. B. Sowjanya	Member



B. Narayana Reddy	Member / layperson
Mr. T. kalyana Chakravarthi	Member / social worker
Mr. P. Vijayakumara Reddy	Member /legal expert
Dr. P. Rama Mohan	Member
Dr. B.V.Subramanyam	Member Secretary

Animal Ethical committee members.

Dr.G. Veera Nagi Reddy	Chairman
Dr. B. L . Kudagi	Member secretary
Dr. D. Subbaiah	Member ( Veterinary Doctor )
Dr. B. Madhavulu	Member
Dr. K.Jithendra	Member

### **3.1.3 What is the policy of the University to promote research in its affiliated / constituent colleges?**

The College constituted research committee incorporating students, teachers, and alumina as the members The committees has drafted policy, procedures, and such other documents to promote research in the institution. Few of the policies are for the research promotion, resource mobilization, research facilities and publications. The policy is every faculty with post graduate qualification shall perceive research at least in one topic annually and students are encouraged to take up projects. However, the projects are made compulsory for post graduates mandatory as requirement in partial fulfillments to be eligible to appear final examinations. Seed money is provided for faculty research and students projects by the management.

### **3.1.4 What are the proactive mechanisms adopted by the institution to facilitate the smooth implementation of research schemes/projects?**

#### **a. Externally funded projects (both government and private agencies):**

- \* **Advancing funds for sanctioned projects.** – Under process
- \* **Providing seed money.** – Yes, Institute is providing seed money for the faculty in every department to encourage research and for ongoing research projects .
- \* **Simplification of procedures related to sanctions / purchases to be made by the**



**investigators.** -Yes. As and when the funds are released by the concerned funding agency , the cheque will be handed over to PI and internal auditing will be done to check the utility of the sanctioned money by PI.

\* **Autonomy to the principal investigator/coordinator for utilizing overhead charges.** --

- No, there is no autonomy of the principle investigator for utilizing overhead charges. Overhead charges will be paid to the institute for providing infrastructure and other research facilities.

\* **Timely release of grants.** --- YES, institute is releasing grants by annual review audit meetings.

\* **Timely auditing.** --- YES, Annual audit will be conducted .

\* **Submission of utilization certificate to the funding authorities.-** is provided

\* **Writing proposals for funding.** ---- YES, Medical education department conducting work shops on research methodology and proposal writing for funding .

\* **Any training given for writing proposals.** ---- YES,, research methodology training programme and programs on dissertation writing for PGs are conducted regularly.

**b. Institution sponsored projects:** YES, Institute provides seed money for doing research

\* **Proportion of funds dedicated for research in the annual budget.— 2 Cores.**

\* **Availability of funding for research /training/resources.**

Funding will be provided as seed money by the institution, and Students research projects are ICMR sponsored.

\* **Availability of access to online data bases** –is made available

### **3.1.5 How is multidisciplinary / interdisciplinary / transdisciplinary research promoted within the institution?**

\* **Between/among different departments** / The post graduates and super specialty dissertation work involves interaction with multiple departments These departments also utilizes the services of clinical laboratories.

\* **Collaboration with national/international institutes / industries.** --- The institute has linkages with national & international institutes for research collaboration.



### 3.1.6. Give details of workshops/ training programs/ sensitization programs conducted by the institution to promote a research culture in the institution.

Medical Gastroenterology:

1. Screening program for Hepatitis B and knowledge attitude lucidation .
2. National CME on the management of Hepatitis B and C. July 2014.

Surgical Gastro :

1. Minimal Access Surgery.
2. Stoma management training for PGs.

NEPHROLOGY

1. Sensitization programs on every WORLD KIDNEY DAY for the past 5 years  
10<sup>th</sup> March 2011- patient awareness program on ACUTE KIDNEY DISEASE.  
11<sup>th</sup> March 2012- patient awareness program on DIABETIC KIDNEY DISEASE.  
8<sup>th</sup> March 2013- CME for Doctors on ORGAN CROSS TALK IN SEPSIS.  
13<sup>th</sup> March 2014-- CME on HYPONATREMIA – REVISITED.  
12<sup>th</sup> March 2015--- awareness about KIDNEY TRANSPLANTATION and CADAVER TRANSPLANT.

UROLOGY :

1. UROONCOLOGY CME – 5<sup>th</sup> April 2015.
2. Female urology CME and Operative workshop 2012 October.
3. CME at Nellore Urology Club – Evaluation Of Male Infertility.
4. Role of total antioxidant capacity of semen in Male infertility and its response to antioxidants .
5. Evaluation and management of uncomplicated UTI.

ENDOCRINOLOGY

1. Pt awareness program on WORLD DIABETES DAY 2014 – NOV.

NEUROLOGY .

Sensitization programs -- 3.

Others

1. World breast feeding week --- 3/8/ 2010.
2. National child nutrition week – 4 /9/ 2010.
3. World Alzheimers day—21/9/2010.
4. National education day. ---,11/11/2010.
5. World AIDS day—1/ 12/ 2010.



6. 3 day basic level workshop on medical education technology --- 27- 29 th 2010.
7. World TB day --- 24 th March 2011.
8. World health day--- 7 th April 2011.
9. One day orientation session on pedagogy and lesson plan.
10. How to write scientific paper by DR. Alladi Mohan , prof of Medicine , SVIMS on 27<sup>th</sup> AUG 2011.
11. 3 day basic level workshop on Medical Education Technologies – 30<sup>th</sup> NOV to 2 nd DEC 2011.MCI Accredited Workshop .
12. Recent advances in cancer Management by Dr. M. Babaiah , Director , Yashoda Cancer Centre – 11<sup>th</sup> FEB 2012.
13. State level workshop in Biostatistics and Epidemiology -- 16<sup>th</sup> and 17<sup>th</sup> July 2012.  
Guest speakers : Dr. Alladi Mohan , SVIMS , Dr. Harichandra Kumar , Prof of Biostatistics , JIPMER . Dr. P. Marimuthu , Additional Prof Biostatistics , NIMHANS , Bangalore. DR. Antonysamy , prof Biostatistics , CMC , Vellore. Dr. Prasanna Samuel , assistant Prof of Biostatistics , CMC, Vellore.
14. 2 day national conference was organized on Role of Medical Colleges in National Medical Research.

Speakers:

1. Dr. Ramesh Chandra Deka , Director, AIIMS , Delhi.
2. Dr. Thyagarajan , prof of Eminence & Dean , SRU , Chennai.
3. Dr. Bhaskar , prof of Zoology , S.VUniversity .
4. Dr. adithan , Prof and Head Pharmacology , JIPMER .
5. Dr. Madhavan Nair , Scientist E , NIN , Hyderabad.
15. CME on prevention of Parent to Child Transmission of HIV/ AIDS --- 23<sup>rd</sup> OCT 2013.
16. 2 day workshop on Research Methodology with focus on Traumatic brain Injury – 14<sup>th</sup> and 15<sup>th</sup> June 2014.
17. CME on prevention and control of STD 11<sup>th</sup> AUG 2014.
18. World Diabetes day – 20 th NOV 2014.
19. Faculty Development Programe --- 5<sup>th</sup> DEC 2015.

Guest of Honor:

1. Dr. Shanta Rao , Director of Medical Education ,AP.
2. Dr.Ravi Raj , Vice Chancellor , DR NTR UHS , Vijayawada.
3. Sri Pandu Ranga Rao , Rtd Judge , high Court ,chairman , High Power Committee .



20. Update on Swine Influenza --- 28<sup>th</sup> JAN , 2015.

21. Workshop on RT PCR , Chromatography , Diagnostic applications --- 26<sup>th</sup> March, 2015.

### **3.1.7 How does the institution facilitate researchers of eminence to visit the campus?**

#### **What is the impact of such efforts on the research activities of the institution?**

Dr.Puduru Jagadeesh from University of Texas who is working on Zeebra fish visited the institution and suggested to work on effect of Vanadium on thrombosis . Work has been done, we have published papers on effect of Vanadium on atherosclerosis regression . The study may have future impact in the field of thrombosis.

As a policy the Institute invites eminent researches in the field to attend Workshops and Conferences conducted by the Institution. The impact of such success visit is multifold with promotion of research, research facility enhancement and improvement in research publications.

### **3.1.8 What percentage of the total budget is earmarked for research? Give details of heads of expenditure, financial allocation and actual utilization.**

Approximately 5 % . The College has earmarked total of Rs.2.Crore as a grant for research. The heads of expenditure follows research promotion activities including providing seed money for faculty research and student research. Also, funds allocated for the Research Facilities and Publications.

### **3.1.9 In its budget, does the University earmark funds for promoting research in its affiliated colleges? If yes, provide details.**

Research Budget for seed money is allotted to all the departments.

### **3.1.10 Does the institution encourage research by awarding Postdoctoral Fellowships/Research Associate ships? If yes, provide details like number of students registered, funding by the institution and other sources.**

YES ,, list of DM and Ph .D scholars Provided

The Institution being Healthcare System, governed by national apex bodies, MCI, hence, the Postgraduate degrees offered are MD and MS. In addition to this, the College has nine Super Specialty departments, where they provide DM, MCh. The details of annual in seed sanction for various Postgraduates are given below.





Results of super speciality courses P 241

Refer list of MD/MS/ DMMCh /passed out scholars

**3.1.11 What percentage of faculty have utilized facilities like sabbatical leave for pursuit of higher research in premier institutions within the country and abroad? How does the institution monitor the output of these scholars?**

Policy is present and not availed by any employee

**3.1.12 Provide details of national and international conferences organized by the institution highlighting the names of eminent scientists/scholars who participated in these events.**

**National and international conferences organized**

**National seminars / conferences conducted by the institution in the last five years**

**2011 :**

1. FORENSIC MEDICON-2011XXXII Annual National conference of Indian Academy of Forensic Medicine conducted by Dept. of Forensic Med. on 28<sup>th</sup>, 29<sup>th</sup> & 30<sup>th</sup> January, 2011 – 425 delegates attended. Professor I.V. Rao, Vice Chancellor of Dr. NTR UHS inaugurated the conference and released the text book on Medical Jurisprudence and Toxicology written by Professor Dr. B.V. Subrahmanyam.
2. AOI – APCON – 2011 30<sup>th</sup> AP State Conference conducted by the dept. of ENT on 9<sup>th</sup>, 10<sup>th</sup> & 11<sup>th</sup> September, 2011 – 360 delegates attended.
3. EYECON – 2011 35<sup>th</sup> AP Ophthalmological Conference- 2011 conducted by dept. of Ophthalmology on 23<sup>rd</sup>, 24<sup>th</sup> & 25<sup>th</sup> Sept., 2011 – 410 delegates attended.
4. XXIX IAPM AP Chapter Annual conference and CME conducted by Dept. of Pathology on 14<sup>th</sup>, 15<sup>th</sup> & 16<sup>th</sup> October, 2011 – 375 delegates attended.

**2012 :**

1. 1<sup>st</sup> National Conference on Micro Nutrients by Central Research Lab – 16<sup>th</sup> & 17<sup>th</sup> June, 2012 – Dr. Katoch, Director General, ICMR, inaugurated the conference and distributed the awards – 110 delegates attended.
2. On 16<sup>th</sup> & 17<sup>th</sup> July, 2012, a State Level workshop is organized on Biostatistics & Epidemiology.



3. National Conference on Role of Medical Colleges in Research was held in March, 2013 – 150 delegates attended. Dr. R.C. Deka, Director, AIMS, New Delhi inaugurated the conference.

**2014** : ICMR sponsored workshop on Research Methodology was held in August, 2014.

**2015** : National conference on “Neuroradiology’ Update 2015 held on 04.01.2015.

National conference ANATOMY.

Neuroradiology update 4<sup>th</sup> Jan 2015.

### **3.1.13 Mention the initiatives of the institution to facilitate a research culture in the below mentioned areas:**

\* **Training in research methodology, research ethics and biostatistics.** --- The college has established medical education technology cell. This cell implements research methodology, ethics & biostatistics through such experts available among the faculties

\* **Development of scientific temperament.** – YES. Regular seminars , CMEs and workshops conducted to encourage scientific temperament . Dr. NTR UHS Zonal CMEs will be conducted regularly by all the departments . As part of post graduate program regular seminars , journal club, practical and case – discussions will be conducted by the concerned departments .

\* **Presence of Medical / Bio Ethics Committee.** – YES. Human ethical committee conducts regular review meetings for every 3 months . Reviews all the submitted proposals and based on the ethical issues and issues certificates .

\* **Research linkages with other institutions, universities and centers of excellence. (national and international).** -- YES. We have MOU with University of North Texas , S.V University and Vikrama Simhapuri University for research purpose .

\* **Research programs in Basic Sciences, Clinical, Operational Research, Epidemiology, Health Economics, etc.--** YES

\* **Promotional avenues for multi-disciplinary, inter-disciplinary research.--** YES

\* **Promotional avenues for translational research.-** in under process

\* **Instilling a culture of research among undergraduate students.** – YES.. UG students are encouraged to do research by applying ICMR STS projects. Applied case oriented discussions and horizontal and vertical seminars are conducted to encourage them towards research.



\* **Publication-based promotion/incentives.** – The research committee has implemented a policy of seed money for student and faculty research projects also which incorporates publication based incentives

\* **Providing travel grant for attending national/international conference and workshops.**—YES. Every faculty attending and presenting an oral paper will be paid for the conference registration, TA and DA. Year wise conference funds allocated. The faculty development committee has drawn guide lines for attending such conferences.

### 3.1.14 Does the institution facilitate

\* **R&D for capacity building and analytical skills in product development like diagnostic kits, biomedical products, etc. for the national / international market**

YES. Advanced Research Centre is providing R & D facilities

\* **Development of entrepreneur skills in health care** --- Yes .. MD hospital administration department producing PGs every year, who are trained in health care management systems .

\* **Taking leadership role for stem cell research, organ transplantation and harvesting, Biotechnology, Medical Informatics, Genomics, Proteomics, Cellular and Molecular Biology, Nanoscience, etc.** – YES.

### 3.1.15 Are students encouraged to conduct any experimental research in Yoga and / or Naturopathy?

YES. 11 papers published in national and international journals International Yoga day was organized by the college of Yoga and Naturopathy. Students and staff participated and made the event successful.

Page no. 117; 3.1.15 ( yoga day is not the answer):

## 3.2 Resource Mobilization for Research

**3.2.1 How many departments of the institution have been recognized for their research activities by national / international agencies (ICMR, DST, DBT, WHO, UNESCO, AYUSH, CSIR, AICTE, etc.) and what is the quantum of assistance received? Mention any two significant outcomes or breakthroughs achieved by this recognition.**

The Institution with all departments is recognized to conduct research by any National and International agencies, such as ICMR, DST, WHO, CSIR, etc...



## 3.2.2 Provide the following details of ongoing research projects of faculty:

	Year-wise	Number	Name of the project	Name of the funding agency	Total grant received
A. University awarded projects					
2012		2	Dr .NTR UHS		
1. prevalence of coronary artery disease, its relation to arterial stiffness, lipids, levels of trace elements in rural and urban population in Nellore - Rs 1000000/-					
2. Association insulin resistance with 25 (OH) vitamin D in coronary artery disease. --- Rs / 3, 41, 000					
Minor projects					
Major projects					
B. Other agencies - national and international (specify)					
			STS list provided.		
Minor projects					
Major projects					

All the eligible faculties have identified research topic, is submitted research under progress being revived regularly by the research committee to facilitate research facilities including the infrastructure, equipments & journals. Seed money provision is made available for all such projects. The total No of 276 research projects are being carried out by the faculties

## 3.2.3 Does the institution have an Intellectual Property Rights (IPR) Cell?

The college has constituted intellectual property right cell which educates Intellectual Property Rights rights to faculties and other stake holders

## 3.2.4 Has the institution taken any special efforts to encourage its faculty to file for patents? If so, how many have been registered and accepted?

Yes, College has appointed a person to give awareness and knowledge on patents . 1. Dr . Maruthi . Professor Physiology.

The college has appointed the person to deal with end to end process of patents including orientation and awareness about the laws pertaining to patents



**3.2.5 Does the institution have any projects sponsored by the industry / corporate houses? If yes, give details such as the name of the project, funding agency and grants received.**

Under processes

**3.2.6 List details of**

**a. Research projects completed and grants received during the last four years (funded by National/International agencies).**

**b. Inter-institutional collaborative projects and grants received**

**i) National collaborations**

**ii) International collaborations**

National : ICMR STS projects.

LIST OF ICMR STS PROJECTS APPROVED FOR 2014				
S. NO	TOPIC	NAME OF STUDENT	NAME OF GUIDE	DEPT
1	Serum Procalcitonin as a prognostic and Diagnostic marker in early septicemia	Miss.Bhaavya anusha 8th sem	Dr.K.Jithendra	Microbiology
2	Pulmonary function,Functional capacity and rate pressure product in over weight individuals : correlation with Body composition	Miss.P.Apoorva 8th sem	Dr.Vijyitha	Physiology
3	Antioxidant trace elements status in Burns patients	Miss.K.Pravallika devi 4th sem	Dr.K.Amar raghunarayan	Plastic surgery
4	Evaluation of utility of Bethesda system in cytology in Thyroid lesions	Miss.Divya sai 4th sem	Dr.V.C.reddy	pathology
5	Study of Insulin Resistance and lipid Profile in Obese and Non obese PCOD	Miss.K.Sneha reddy 4th sem	D.Krishnamma	Biochemistry

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6	Morphometric study of Dry Cervical vertebrae about Foramen transversarium in south coastal zone of Andhra Pradesh	Miss.S.Pavithra 4th sem	Dr.L.Hema	Anatomy
7	A study of Osteoporosis in Women	Miss.U.soumya devi 8th sem	Dr.Krishna murthy	Orthopaedics
8	Effect Of Pranayama On Cardiovascular Autonomic Dysfunction In Hypothyroid Patients	Miss.S.Vedadhurthy 8th sem	Dr.N.Mallikarjuna reddy	Physiology
9	A study on fluorescent staining of buccal smears.	Miss.K.sreevidya 4th sem	Dr.N.V.Vydhathi	Pathology.

LIST OF ICMR PROJECTS SELECTED FOR YEAR 2015					
S. No	Ref-ID	Name of Student	Study topic	Department	Name of guide
1	2015-00746	I. SAI MOURYA	A Comparison Of Direct Smear Microscopy And Bleach Concentration Smear Of Spot	MICROBIOLOGY	DR. K. JITHENDRA

Chinthareddypalem, Nellore - 524003, A.P. India



			Sample In Detectio n Of Pulmona ry Tubercul osis		
2	2015- 04608	D.NAVEESWA R REDDY	Emergen ce of carbapen em resistanc e due to productio n of serine and metallo betalacta mases in klebsiella species.	MICROBI OLOGY	DR.P.SRINIV ASULU REDDY
3	2015- 04256	MR.L.KAMAL NATH	Evaluatio n of antibodie s to hbsag among vaccinate d health	MICROBI OLOGY	DR.P.VASUN DHARA DEVI



			care workers in a tertiary care hospital		
4	2015- 02577	K.PRATHYUS HA	Corelation of ovarian reserve among different age groups of infertile woman of nellore district in andhra pradhesh	GYNEACOLOGY	DR.M.ANITHA
5	2015- 03874	D.HAASITH	Preliminary-morphometric observation of placenta in pregnancy	ANATOMY	DR .N. JAYASREE





			induced diabetis & hyperten sion		
6	2015- 04302	P.VAMSIDHA R REDDY	Assessin g the functioni ng of dmc's (rntcp) in nellore city	PSM	DR.C. JYOTHI
7	2015- 05097	E.BHARGAVI	Rolle of collagen sheets in healing of burn wounds	BIOCHEMI STRY	DR.SK.DEEP THI
8	2015- 02273	MISS.CH.SRE EKERTHI	Associati on of serum magnesi um levels with acute exacerbat ions of chronic obstructi ve	PULMONO LOGY	DR.G.VIGNA N KUMAR



			pulmonary disease		
9	2015-06218	A.S.S NIVALIKA	Study of thyroid function and auto immunity in young adults of nellore district, andhra pradesh in post dization phase	BIOCHEMISTRY	DR.D RAJESWARI
10.		Manvitha	Association of insulin resistance and 25 (OH) D with arterial stiffness in normal healthy individuals	Biochemistry	Dr.B.sowjanya



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### **3.2.7 What are the financial provisions made in the institution budget for supporting students' research projects?**

A total of Rs.1 Crore is reserved for students research including under-graduates, interns, post-graduates and super-specialties. This budget is in addition to research budget for faculties and budget for faculty development activities. For Student Projects, a budget of 50 Lakhs is kept reserved. This is utilized mainly for student projects. Another 50 Lakhs is reserved for students attending conferences and presenting papers or attending pre-conference workshops.

## **3.3 Research Facilities**

### **3.3.1 What efforts have been made by the institution to improve its infrastructure requirements to facilitate research? What strategies have been evolved to meet the needs of researchers in emerging disciplines?**

**Advanced Research Centre, Narayana Medical College & Hospital  
Chinthareddypalem, Nellore - 524003, A.P. India**

Advanced Research Centre (ARC) was established by dedicated group of scientists & Clinicians interested in research of various departments. Our scientists have huge experience in cutting edge in research related to Micronutrients, Cell and Molecular biology, cancer biology, Drug discovery, Stem Cell research and therapy.

The dedication to scientific research is attested by the fact that more than 70 papers have been published in national and international journals, various projects have been granted, various presentations at international/national level and awards for their research.

ARC is situated in the premises of Narayana medical complex (NMC). Narayana medical complex has medical college, dental, nursing, physiotherapy, pharmacy, Yoga and Naturopathy colleges.

Research wing separately as advanced research center started in the year 2010 in the presence of various dignitaries from the University of North Texas (U.N.T), who have signed MoU with our institution. There is exchange of research group from both the institution.

The primary objective of this unit is to carry out the extensive work at both the basic and applied aspects in the area of micronutrients, & Genomics, Drug discovery, Cancer Biology,

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stem cell research. The institute has the state-of-art infrastructure to carry out the work at biochemical, cellular and molecular aspects of Micronutrients& Genomics, Drug discovery, Cancer Biology & Stem cell sciences. There are a number of ongoing projects, which are supported by the prestigious funding agencies such as ICMR, Department of Biotechnology Department of Science and Technology & Dr NTR UHS, Govt of A.P. **ARC has been recognized by DSIR, Govt. of India**

**Area of Research undertaken: 4000 SQFT**

## **Research Advisory Board**

<u>S. No.</u>		<u>Name</u>	<u>Designation</u>
<u>1</u>	<u>International</u>	Dr.Bowman	Chair, Paediatric wing University of North Texas, USA
<u>2</u>	<u>International</u>	Dr. Pudur Jagadeswaran	Professor of Biological Sciences University of North Texas, USA
<u>3</u>	<u>International</u>	Dr Narendra Dahotre	Centre for advanced Non-Ferrous Structural Alloys(CANFSA), Multi-scale surface science& Engineering Research cluster, University of North Texas, USA
4	<u>National</u>	Dr.B.Sesikera	Ex Director National Institute of Nutrition Hyderabad
5	<u>National</u>	Dr D.Balasubrahmanyam	Director of research LVPEI & research centre Hyderabad
6	<u>National</u>	Dr. AGK Gokhale,	CTVS Surgeon, Hyderabad.
7	<u>National</u>	Dr.Shyam Singh	Deputy Director(Retd.) <u>Central Drug Research Institute, Lucknow</u>
8	<u>National</u>	Dr.M.Bhaskar	Professor, Dept. of Zoology Sri Venkateswara University Tirupati



9	<u>National</u>	Dr B.C.Harinath	Director, J B Tropical Disease research Mahatma Gandhi Institute of Medical Sciences Sevagram,
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## Areas

ARC focuses on Micronutrient, Genetics & Genomics, Drug discovery, microbiology, Cancer Biology, stem cell research & stem cell based cord blood bank while simultaneously imparting advanced learning aimed at expanding and adding to the body of scientific knowledge. To achieve our aim, ARC plans to undertake research and development through a transparent structure aided by a set of highly focused wholly owned subsidiaries. ARC focuses on research and development in Micronutrients, Genomics & proteomics and stem cells through our state of the art hospital, and advanced learning in the area.

### **Our subsidiaries include:**

- **Micronutrients Research:** Focuses exclusively on micronutrients & trace elements research & development in multi-disciplinary departments.
- **Genomics & Proteomics:** Focuses exclusively on various genetic related diseases & infectious diseases and their developmental polymorphic diagnosis and research studies with bio-informatic tools.
- **Epidemiological & Experimental Research ,Cancer Biolgy,Drug Discovery, Microbiology ,Stem Cell Research & Bank:** This wholly owned subsidiary of ARC focuses exclusively on areas related to Cardiac, Liver, Neural, Renal, Vascular, Ortho stem cells. Stem cell bank focuses to establish Stem Cell based Cord Blood and other tissue cell Bank.
- **Micronutrients research:**

The institute is working on micronutrients like, Zinc, copper, cadmium, vanadium, silicon, chromium, selenium both on experimental, laboratory animals and occupational workers in mica mines. There is, separate Genomics and Proteomics laboratories in our centre. These facilities are used for the diagnosis of various diseases and also for various research activities.

### **Epidemiological & Experimental Research**

An experienced team from A.R.C is engaged in various epidemiological works related to cardio logical diseases especially micronutrient deficiency in various regions of coastal belt and rural population of Nellore district. This team dedicatedly working to identify molecular pathways of trace elements in various degenerative and other diseases in animal models. Dr.



# NARAYANA MEDICAL COLLEGE

G.Subrahmanyam Director and Other Research Team were involved in this work by travelling more than 20 villages around the rural and coastal mandals of Nellore district.

**Stem Cell Research & Regenerative Medicine (SCRM, a unit of A.R.C, Narayana Medical College Campus, Nellore-524003.)**

SCRM a unit of ARC, recognized by National Apex Stem cell Committee, Government of India situated at Narayana Medical College Campus, Nellore. Its aim is to use stem cell science to better understanding of human diseases and ultimately develop cell based therapies from them.

## **.The Mission:**

This division for Stem Cell Biology and Regenerative Medicine is a state-of-the-art research unit established in the campus of Narayana Medical College, Nellore, India, dedicated to the study of stem cell and regenerative biology. This is a private research unit which was in progress to be registered with national apex board of Intuition committee for stem cell Research and Therapy by the *Dept of Biotechnology & Indian Council of Medical Research*, Govt. of India. This centre aims to answer challenging questions that face in the field of regenerative medicine by combination of clinical and laboratory research of stem cell biology. Here we encompasses a wide range of topics in stem cell biology: basic mechanisms that control renewal & differentiation, Preclinical & clinical studies on the impact of stem cells on recovery from stroke, diabetes, arthritis, liver & Kidney damage, blood disorders, spinal cord injury, nervous disorders, and various degenerative diseases.

Presently, as a first phase the lab is aimed in process to establish:

1. Umbilical Cord Blood Stem Cell Bank
2. Wharton's Jelly Tissue stem cell Bank
3. Tissue cell bank

## **Facilities in ARC**

ARC is in the process of expansion to add to its present facilities. These additions will not only increase the physical infrastructure but will also add to our existing state-of-the-art facilities.

**Our present facilities include:**

Equipment	Manufacture	Uses
Automated Chemistry Analyzer	HUMAN	Analysis of biochemical parameters

**Chinthareddypalem, Nellore - 524003, A.P. India**



(SEMI)		
Atomic Absorption Spectrophotometer with graphite furnace	SHIMADZU	Analysis of trace elements
Air Purifier	HIMEDIA	TO purify contaminated air
Centrifuge	REMI	To isolate Proteins, Nucleic acids
CO2 Incubator	Thermo Scientific, USA	To culture cells
Homogenizer	REMI	To homogenise tissue samples
Chemiluminescence	Beckman	To analyse hormones
Centrifuge (Micro)	REMI	To isolate Proteins, Nucleic acids
Centrifuge (Cooling)	REMI	To isolate Proteins, Nucleic acids
Centrifuge (Cyto)	Thermac	To isolate Proteins, Nucleic acids
Densitometer	Systronics	To analyse proteins and nucleic acids
Electronic Balance	EESAR	To weigh samples
ELISA Reader	CPC	To analyse proteins and nucleic acids
ELISA washer (Automatic)	Tuleep	To analyse proteins and nucleic acids
Electrophoresis Unit	BECKMAN	To analyse proteins and nucleic acids
Electrophoresis Apparatus (Vertical )	GENI	To analyse proteins and nucleic acids
Electrophoresis Apparatus (Horizontal )	GENI	To analyse proteins and nucleic acids
Flow cytometer (FACS Canto II)	BD Biosciences	To analyse cells, and their characteristics
Fluorescence microscope	Olympus	To analyse cell types and their characteristics
Freezer – 20 <sup>0</sup> C	LG	To store samples
Freezer -80 <sup>0</sup> C	Terumo-penople	To store samples
Gel Documentation system	Lark	To analyse proteins and nucleic acids
Gel Documentation system	Syngene	To analyse proteins and nucleic acids
Gel dryer	GENI	To analyse proteins and nucleic acids
Hot Air Oven	YORCO	To sterilise & incubate samples



Hot Plate	TECHNICO	To incubate samples
Laminar Air Hood	HYCHEM	To culture and sterisation
Magnetic Stirrer	REMI	To stir samples
Magnetic Associated Cell Sorter [MACS]	Miltinyi Biotech	To isolate cell population
Nano drop	Thermo	To analyse proteins and natural products and nucleic acids
pH Meter	Systronics	To analyse pH
PCR Workstation	GENI	To prepare PCR sample processing
Real Time PCR CFX96	BIO-RAD	To perform quantitative & gene expression analysis
Refrigerator -20 <sup>0</sup> C	LG	To store samples
Shaker ( Western blot)	JAIMITRA	To incubate samples
Thermal Cycler PCR	LONGENE	To perform PCR
DB-UV, Vis Spectrophotometer	ELICO	To analyse proteins and natural products and nucleic acids
U.V. Transilluminator	GENI	To analyse proteins and natural products and nucleic acids
Ultra Somicator	HYCHEM	To analyse proteins
Ultra HPLC	Thermoscientific	To analyse proteins and natural products and nucleic acids
Vacuum Pump	HYCHEM	To filter media
Vortex Shaker	REMI	To mix samples
Water Bath	GENI	To incubate samples
Water Distillation Plant	HY GLASS	To purify water
Water purifier	EXCELL	To purify water

## Memorandum of Understanding

University of North Texas, USA

Working collaboratively in projects related to Micronutrients Research

1. Sri Venkateswara University, Tirupati, Andhrapradesh

Working Collaboratively in projects related to Micronutrients, Stem Cell Biology, Diabetes and Cardiovascular Research





2. Sri Vikrama Simhapuri University, Nellore, Andhrapradesh

Working collaboratively in projects related to Biotechnology research

3. Sri Rama Chandra Medical University, Chennai, Tamilnadu

Working collaboratively in projects related to Diabetes and Genetics

## **National wide projects collaboration with laboratories**

Department of Chemistry, University of Hyderabad, Hyderabad for collaborative project related to Drug design & discovery

Department of Genetics, Osmania University, Hyderabad for collaborative project related to Herbal Formulations & Diabetes.

## **Activities of the Department**

### **Teaching & Training**

Actively involved in teaching and research training the post graduate students in Narayana medical college and Narayana dental college for dissertations, publications and various research projects.

### **No. of seminars/conference/workshop organised by dept:**

#### **Organised:**

1. National conference on "Micronutrient Research" held on 16<sup>th</sup> JUNE 2012
2. National workshop on "Biostatistics & Research Methodology" held on 16-17<sup>th</sup> July 2012
3. National workshop on "Recent advances of Real Time PCR & Flow Cytometry in Diagnostics & Various Research applications" held on 21<sup>st</sup> March 2015
- 4.

### **I st National conference conducted on Micro nutrients 2012.**

Micro nutrient group at the national level are invited and conference was hosted by NMG supported by ICMR. All pioneers in the micronutrient research have attended. It is decided to register the association and to conduct at various centers in the country every year and share their experiences in the micronutrient research.

### **Recent Advances of Real Time PCR & Flow Cytometry in Diagnostics & Various Research Applications**



In a sequence of development of quality of Research and Technology, NMCH organized a national level work shop entitled “Recent Advances of Real Time PCR & Flow Cytometry in Diagnostics & Various Research Applications on 26th march-2015. Approximately 100 participants attended

## **Workshop Highlights:**

Fluorescent Activated Cell Sorting (FACS) or Flow Cytometry is widely used in basic and clinical research. To harness the real power of this state of art technique, appropriate experimental designing and accurate analysis of FACS data are crucial. Correct data analysis is not only important but also critical to adequately identify or functionally characterize the multiple populations of interest within the system. In the last few years, the number of parameters (colors) simultaneously used in flow cytometry experiments has increased. This is enabled by the availability of high-end instruments and powerful data analysis tools. In other hands, Real Time PCR holds the great promise to diagnose emerging infectious and non-infectious diseases and various genetic diseases. In this workshop, morning section, we cover preparation of sample, operating procedure, analysis of multicolor flow cytometry data and guidelines for the correct data analysis. All participants learned to generate graphical and statistical reports to identify various populations of interest. In after section, Real time PCR workflow procedure and its various applications have been demonstrated. Potential technical issues with the data also discussed. Study material was provided which include lectures, procedure published articles and Flow cytometry & Real Time PCR list discussions.

## **SEMINARS/ WORKSHOPS/ CONFERENCES/ POSTER RESENTATIONS/CME/CDE**

**Eleven** Invited Talks/Plenary talk/Oral presentation/ chairing session- were conducted and 16, papers/posters were presented



## Research Projects:

### Clinical:

Agency	TITLE OF THE PROJECT	INVESTIGATOR	Status	FUND (INR)
ICMR	Prevalence of goiter with reference to urinary IODINE levels and Fluoride content of drinking water in Nellore District-	Dr Pradeep, Dr Ramalingam	Accepted	100000
ICMR	Prevalence of voiding dysfunctions in patients with traumatic brain injuries	Dr. Surya Prakash Dr.Mahaboob V Shaik	Acceptance pending minor revision	16.70 Lakhs

### Epidemiological:

<b>Dr NTR UHS</b>	<b>Prevalence of coronary artery disease, its related to arterial stiffness, lipids, levels of trace elements in rural and urban population of Nellore district.</b>	<b>Dr Subrahmanyam, Dr Ramamohan &amp; Dr Ramalingam</b>	<b>Fund released</b>	<b>1000000</b>
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## Grants /Funding



S.NO	Status	Project Title	Funding Body	Status
5	Co-PI DR.PSRao	Prevalence of Nutritional deficiency anaemias and related micro nutrient analysis among the tribal women of Coastal Andhra Pradesh.	ICMR	<b>Under Review</b>
6	Principal Investigator DR.PSRao	Role of micro nutrient levels in regulation of apoptotic mechanism among the tobacco chewers and smokers with oral pre-cancerous lesions	ICMR	<b>Under Review</b>
7	Principal Investigator DR.PSRao	Screening and evaluation of <i>Pongamia Pinnata</i> on the human breast cancer cell line, MCF-7.	ICMR	<b>Under Review</b>
10	Principal Investigator DR.PSRao	Effect of Poly herbal formulation in alloxan induced Diabetes in rat models	DST/AYUSH	Under preparation
11	Principal Investigator DR.PSRao	In vitro screening and evaluation of <i>oroxylum indicum</i> on the human breast cancer cell line MCF-7	DBT	Under correction
12	Principal Investigator DR.PSRao	In vitro screening and evaluation of <i>Strychnos wallichiana</i> on the human breast cancer cell line MCF-7	DST	Under preparation
13	Principal Investigator DR.PSRao	In silico design of high affinity Brucine analogs for inhibiting various cancers using specific target proteins by virtual screening and	DBT	Under preparation



		docking		
14	Principal Investigator DR.PSRao	Identification of bioprospecting bacteria from the marine ecosystem of Bay of BENGAL: A culture-dependent AND molecular approach	DBT	Under preparation
15	Principal Investigator DR.PSRao	Role of genes and their association in the progression oral cancers(HEAD and NECK) in the South Indian Population	DBT	Under preparation

IRIS ID NO.	TITLE OF THE PROJECT	PRINCIPAL INVESTIGATOR	Co-investigators	Status
2012-1844	Autologous bone marrow stem cell transplantation to patients with spinal cord injury	Prof. Amit agrawal	Dr mahaboob vali shaik Dr. G. Subramanyam	-in process
2012-19330	Isolation & molecular characterization of Wharton's jelly derived mesenchymal stem cells (WJ-MSC) and study of role of WJ-MSC in the management of streptozotocin induced type1 diabetic rats	Dr. G Subrahmanyam	Dr Mahaboob vali shaik	Under review
2012-1849	Developing a trauma registry and trauma template to collect core data	Prof. Amit Agrawal	Dr Mahaboob vali shaik	Accepted



	<b>in injured patients</b>			
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## Advanced:

ICMR	Autologous bone marrow stem cell transplantation to the patients with spinal cord injury	Dr Mahaboob V Shaik  Dr Amit agrawal	Final Review	
DBT	Wharton's jelly derived stem cells	Dr Mahaboob V Shaik	Final Review	

The details of Advanced Research Publications: clinical publication, Award for Best Paper /Poster Presentation, Other related information, Books Published, Current ongoing research projects include, Books under Preparation ,Research Publications in progress, Collaborative publications under review and process of communication. Future Project. Reviewer for peer reviewed international journals,

Advanced research Centre has been established in 2010 . The centre is equipped with the instruments and is attached with clinical Biochemistry, clinical Pathology and clinical Microbiology .RT PCR ,Nanotap ,U HPLC ,IV florescence microscope ,Flow cytometry ,Atomic Absorption Spectrophotometer ,Mac system for stem cell.

### **3.3.2 Does the institution have an Advanced Central Research facility? If yes, have the facilities been made available to research scholars? What is the funding allocated to the facility?**

Yes, the college has established advanced central research facilities and advanced equipments and trained manpower in advance research plan. Individual departments have high end research facilities of their specialty; similarly the clinical departments have the number of beds ,faculty and clinical material with hi tech equipments needed as per the services of their departments.



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### **3.3.3 Does the institution have a Drug Information Centre to cater to the needs of researchers? If yes, provide details of the facility.**

The college has established drug information centre of excellence. This centre provides latest information pertaining to drugs, their actions, toxicity, dosage, interactions to general and advanced learners including researcher and drug consumer.

### **3.3.4 Does the institution provide residential facilities (with computer and internet facilities) for research scholars, post-doctoral fellows, research associates, summer fellows of various academies and visiting scientists (national/international)?**

Yes, M.D and DM students will be provided with residential facilities in hostel . Institute is providing residential quarters for the faculty with wifi facility within the campus .

### **3.3.5 Does the institution have centres of national and international recognition/repute? Give a brief description of how these facilities are made use of by researchers from other laboratories.**

Advanced Research Centre

### **3.3.6 Clinical trials and research**

**Are all the clinical trials registered with CTRI (Clinical Trials Research of India)?**

YES

**\* List a few major clinical trials conducted with their outcomes.**

1. Dr . T .Sreenivasulu - Pharmaceutical H9B- MC- BCDO - A phase III Multicentric , Randomised double blind , placebo- controlled study to evaluate the safety and efficacy of LY 2127399 in pts with Rheumatoid arthritis with or without background disease modifying antirheumatic drug (DMARD) therapy. --- outcomes
2. Dr. K.Gowrinath . – Pharmaceutical GL\_ Bcl-/ 2011-12. – A phase III , randomized , open label, non inferiority , comparative , multicentric study between beclomethasone Dipropionate 250 ug in HFA propelled MDI and beclomethasone Dipropionate 250 ug in HFA propelled MDI (ClenilR HFA 250 ug spray in a 12 wk treatment period of Adult patients with mild to moderate persistent Asthma .--- outcomes



## 3.4 Research Publications and Awards

### 3.4.1 Does the institution publish any research journal(s)? If yes, indicate the composition of the editorial board, editorial policies and state whether it/they is/are listed in any international database.

**Narayana Medical Journal (NMJ)** is a biannual peer-reviewed journal published by the Narayana Medical College, NMJ publishes original articles that offer significant contributions to knowledge in all the broad and super specialties. NMJ is designed to serve as a medium for rapid dissemination of new and important information about medicine and health care. Articles that are accepted for publication are done so, with the understanding that they, or their substantive contents, have not been and will not be submitted to any other publication. The journal will cover technical, clinical and bioengineering studies related to human well being including ethical and social issues. The journal gives preference to clinically oriented studies over experimental and animal studies.

It was started in the year 2012 and so far 4 volumes and 7 issues were published. It is available as Open access journal On line version as well as print Edition. About 500 copies are printed and sent to all medical colleges as a complimentary copy. At present there is no subscription fees as well as submission fees. Articles are published by faculty of Narayana medical college, and others both nationally and internationally.

So far 58 articles were published in all put together. Apart from regular articles, book reviews we have introduced Radiology Quiz. We are planning to extend it further to other areas like E.C.G; Ultrasound ;Echocardiography; CT;MRI etc. The Downloads and Views from the Online version are very encouraging..

#### **Narayana Medical Journal**

##### **Chief editor :**

Dr. KSVK. Subba Rao . M.S , M.Ch  
Prof CTS & hospital administration  
NMCH  
Nellore .

##### **Associate Editors:**

Prof B. V. Subramanyam M.D .  
Professor Forensic Medicine  
Prof Amit Agarwal M.S,Mch.  
Professor Neuro Surgery





Prof K.Krishnamurthy M.D,

Professor Psychiatry

## **Editorial Board Members**

Prof Thirunavakarsu M.S,Mch,

Prof Surgical Gastroenterology .

Prof Amaresh Reddy , D.M

Associate professor Endocrinology

Prof N.Janardhan M.S

Professor ENT

Prof P.Narasimha Reddy M.D

Professor Anesthesia

Prof Kudagi, M.D

Professor Pharmacology

Prof K. Praveen Kumar Das

Professor of Nephrology

Dr.Amit agarwal Prof of Neuro surgery:

### **3.4.2 Give details of publications by the faculty and students:**

Prepare data from FDS, Paper published national and international by faculty and student and other details

#### **\* Number of papers published in peer reviewed journals (national / international)**

\* Number of papers published in peer reviewed journals (national / international) -- **1230**

\* Monographs --

\* Books and Chapters in Books-- 17

\* Books edited ---

\* Books with ISBN with details of publishers

\* Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, EBSCO host, Google scholar, etc.)

\* Citation Index – range / average

\* Impact Factor – range / average

\* Source Normalized Impact per Paper (SNIP)

SCImago Journal Rank (SJR)



h-index

## Summary of Narayana Medical Institutions

Sl. no	Institutions	Citation	h-Index
1	Medical College	1075	17.70
2	Super Speciality	4317	35.48
3	Broad Speciality	160	6.8
4	ARC	835	15.6
	Total	6387	43.15

## Medical College

Sl. No.	Department	Citation	h- Index
1	Anatomy	102	5.45
2	Biochemistry	303	9.39
3	Community Medicine	153	3.14
4	Forensic Medicine	126	6.06
5	Microbiology	29	2.90
6	Pathology	73	4.61
7	Physiology	65	4.35
8	Pharmacology	224	8.08
	Total	1075	17.70



## Super Speciality

Sl. No	Department	Citation	h-index
1	Cardiology	101	5.42
2	CTVS	815	15.41
3	Endocrinology	87	5.0
4	Endocrine Surgery	450	11.45
5	Medical Gastro Enterology	2	0.76
6	Surgical Gastro Enterology	-	-
7	Neurology	179	7.2
8	Neurosurgery	2610	27.58
9	Nephrology	64	4.32
10	Plastic Surgery	-	-
11	Urology	9	1.62
	Total	4317	35.48

## Broad Speciality

Sl. No.	Department	Citation	h-index
1	Anesthesia	17	2.2
2	DVL	-	-
3	ENT	10	1.7
4	General Medicine	-	-
5	General Surgery	1	0.54



6	Emergency Medicine	20	2.41
7	Hospital Administration	-	-
8	OBG	-	-
9	Ophthal	-	-
10	Ortho	-	-
11	Paediatrics	1	0.54
12	Psychology	-	-
13	Pulmonology	95	5.26
14	Radiology	16	2.16
	Total	160	6.8

	Advanced Research Center	Citation	h-index
		835	15.6

## SUPERSPECIALITY - Cardiology

S.no.	Department	Citations	h-index
1.	Dr. Asuthosh	7	1
2.	Dr. Bhaktavatsala Reddy	1	1
3.	Dr. Partho Chowdary	7	1
4.	Dr. Phani Krishna	86	2
	Total:	101	5.42



## CTVS

S.no.	Department	Citations	h-index
1.	Dr. Edwin	565	11
2.	Dr.K.Subba Rao	250	6
	Total:	815	15.41

## Endocrinology

S.no.	Department	Citations	h-index
1.	Dr. Amaresh Reddy	87	4
	Total:	87	5.0

## Endocrine Surgery

S.no.	Department	Citations	h-index
1.	Dr P.V. Pradeep	450	10
	Total:	450	11.45

## Medical Gastro Enterology

S.no.	Department	Citations	h-index
1.	Dr. M.G. Srinivas	2	1
2.	Dr. Thankappan	0	0
	Total:	2	0.76

## Neurology

S.no.	Department	Citations	h-index
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1.	Dr. Bindu Menon	179	7
	Total:	179	7.2

## Neuro Surgery

S.no.	Department	Citations	h-index
1.	Dr. Amit Agarwal	2589	16
2.	Dr. Harisha	21	1
	Total:	2610	27.58

## Nephrology

S.no.	Department	Citations	h-index
1.	Dr. Praveen	10	2
2.	Dr. Madhav Desai	54	5
	Total:	64	4.32

## Urology

S.no.	Department	Citations	h-index
1.	Dr.Surya Prakash	8	2
2.	Dr.S.V. Krishna Reddy	1	1
	Total:	9	1.62

## Broad Specialities

## Anaesthesia

S.no.	Department	Citations	h-index
1.	Dr.P. Narasimha Reddy	17	2
	Total:	17	2.2



## ENT

S.no.	Department	Citations	h-index
1.	Dr.N. Janardhan	9	2
2.	Dr.T. Ramakrishna	1	1
	Total:	10	1.70

## General Surgery

S.no.	Department	Citations	h-index
1.	Dr. Sreeram Sateesh	1	1
	Total:	1	0.54

## Emergency Medicine

S.no.	Department	Citations	h-index
1.	Dr. Satish	12	2
2.	Dr. Raghu	8	1
	Total:	20	2.41

## Paediatrics

S.no.	Department	Citations	h-index
1.	Dr. Bharath	1	1
	Total:	1	0.54

## Pulmonology

S.no.	Department	Citations	h-index
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1.	Dr.K. Gowrinath	95	5
	Total:	95	5.26

## Radiology

S.no.	Department	Citations	h-index
1.	Dr. K. Suneetha	10	2
2.	Dr.Umamaheswar Reddy	3	1
3.	Dr. V. Kishore Hegde	3	1
	Total:	16	2.16

## ARC

S.no.	Department	Citations	h-index
1.	Dr.G.Subrahmanyam	395	10
2.	Dr.P.Srinivasa Rao	89	3
3.	Dr.Valli Shaik	266	5
4.	Dr. Durairaj	85	4
	Total:	835	15.60

## Medical College

### Anatomy

S.no.	Department	Citations	h-index
1.	Dr.R.Suman Babu	0	0
2.	Dr.Ch.Shanthi	3	1
3.	Dr.Sharmila Bhanu	86	6
4	Dr. G. Supriya	13	2





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	Total:	102	5.45
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## **Forensic Medicine**

S.no.	Department	Citations	h-index
1.	Dr.B.V. Subrahmanyam	126	4
	Total:	126	6.06

## **Pathology**

S.no.	Department	Citations	h-index
1.	Dr.N. Mohan Rao	12	2
2.	Dr.G. Bhavana	1	1
3.	Dr.V. Shanthi	60	4
	Total:	73	4.61

## **Physiology**

S.no.	Department	Citations	h-index
1.	Dr.K.M. Maruthi	65	4
	Total:	65	4.35

## **Pharmacology**

S.no.	Department	Citations	h-index
1.	Dr.B. Kudagi	7	1
2.	Dr.G. Bhawani	142	4
3.	Dr.B. Madhavulu	1	1



4.	Dr.P. Rama Mohan	74	5
	Total:	224	8.08

## **Biochemistry**

S.no.	Department	Citations	h-index
1.	Dr.M.Krishnamma	2	1
2.	Dr.B. sowjanya	22	2
3.	Dr.D.Rajarajeswari	32	2
4	Dr.J.N. Naidu	62	4
5.	Dr.K.Ramalingam	182	8
6.	Dr.T. Sharmila Krishna	1	1
7.	Dr. RR.Aparna	2	1
	Total:	303	9.39

## **Microbiology**

S.no.	Department	Citations	h-index
1.	Dr.P.Sreenivasulu Reddy	29	3
	Total:	29	2.90



## Community Medicine

S.no.	Department	Citations	h-index
1.	Sk.Ahamad Basha	21	2
2.	Dr.K.Vijaya	35	3
3.	Dr.E. Ravikiran	61	4
4.	Dr.C. Jyothi	2	1
5	Dr. P. Chandra Sekhar	34	2
	Total:	153	3.14

## College of Pharmacy

S.no.	Department	Citations	h-index
1.	Dr.P.M. Vasantha Kumar	25	3
2.	Dr.R.Ramasubramania Raja	87	6
	Total:	112	5.71

## Yoga & Naturopathy

S.no.	Department	Citations	h-index
1.	Dr.V. Satyanand	1	1
	Total:	1	0.54

### **3.4.3 Does the institution publish any reports/compilations/clinical round-ups as a part of clinical research to enrich knowledge, skills and attitudes?**

Yes, case reports, clinical round- ups will be conducted regularly in the hospital. Mortality review meetings are conducted often.



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## 3.4.4 Give details of faculty serving on the editorial boards of national and international journals

Dr.Amit agarwal Prof of Neuro surgery:

**Editor- in – Chief**

**Journal of Neurosciences in Rural Practice**

**Journal of Cranio – Maxillary Diseases**

**Associate Editor**

**Narayana Medical Journal**

**Member, Editorial Board**

**Clinical Medicine : Trauma and Intensive Medicine**

**Journal of Central Nervous System Disease**

**National Editorial Board, Global Journal of Applied Physiology and Bio Sciences**

**Nepal Journal of Neurosciences**

**Open access Emergency medicine**

**Clinical Reviews and Opinions**

**Infectious Disease in Clinical Practice**

**Indian Journal of Clinical Medicine**

**Journal of Acute Disease**

**Case Reports in Radiology**

**Journal of Acute Disease**

**Clinical Medicine Insights : Trauma and Intensive Medicine**

**Co-Editor – The journal of DattaMeghe Institute of Medical Sciences**

**World Journal of Clinical Pediatrics**

**Journal of Gastroenterology and Hepatology Research**

Dr.Tirunavakkarasu Prof of Surgical gastroenterology:

**Member of Editorial Board Narayana Medical Journal**

Dr.Ravi kiran Prof of SPM.:

**Member of Editorial Board**

**1. National journal of research in Community medicine**



## 2. Indian journal of research and reports in Medical sciences

### 3. Indian journal of preventive medicine.

Dr.S.V.Phanindra Dept of Forensic medicine: **Editor –in-Chief of**

**journal of AP academy of forensic medicine & toxicology.**

Dr.G .V.Nagi reddy & Dr.B.V.Subramanyam : Members of **Editorial Board** in journal of AP academy of forensic medicine & toxicology.

Dr B Madhavulu, Associate Professor of Pharmacology, Associate Editor, Journal of Scientific and Innovative Research

**\* faculty serving as members of steering committees of national and international conferences recognized by reputed organizations / societies**

**\* NIL**

### 3.4.5 Provide details for the last four years

#### **\* research awards received by the faculty and students**

Seventy two awards were received by faculty. In addition college has received following distinct recognitions

#### **\* National and international recognition received by the faculty from reputed professional bodies and agencies**

\* Indo Healthcare Summit 2015 – Indus Foundation USA and Hon’ble Governor of Andhra Pradesh Sri. Narasimham has presented

\* Best Education Training Institution Award to Narayana Medical College and Hospitals.

2. Dr. Katochi, Spl. Secretary to Government of India and ICMR Director General has awarded Gold medal award to Dr. Pradeep, Surgical Endocrinologist, Narayana Medical College and Hospital.

3. Memorandum of understanding with University of North Texas and research work on Vanadium and thrombosis is being done.

4. PMT assessment in 2013, Narayana Medical College is in No: 12 of the Top 100 Medical Colleges.

5-6 Citation Performance of the Neurology training institution in India Narayana Medical College & Hospital is 15<sup>th</sup> position and in Neurosurgery is 13<sup>th</sup> position, where as JIPMER, Pondicherry is 15<sup>th</sup> position. -



7-11 Department of Gynaecology & Obstetrics Narayana Medical College & Hospital and Professor Hymavathi name is extend in Limca Book of records 2015 and also Miracles of world records.

12. Invitation has been extend to the Director to speak on Indian Science Congress 2014 on “Nutrition and Cardio Vascular diseases and Fortification of food”.

13. DSIR accorded recognition to Narayana Medical College in 2012 and 2015.

14. Director General of ICMR has sent a letter to send expert committee for evaluate and to consider Micro Nutrient Research Centre in Narayana Medical College.

15- Awards at the University competition Best presentation award 2013. Vikrama Simhapuri University & SV University 2013

### **3.4.6 Indicate the average number of post graduate and doctoral scholars guided by each faculty during the last four years.**

PG ,superspeciality last 4 years list is large ,separate manual will be submitted on website and during the visit

### **3.4.7 What is the official policy of the institution to check malpractices and plagiarism in research? Mention the number of plagiarism cases reported and action taken.**

The research committee has drawn policy to check malpractices and plagiarism in research necessary available softwares are used to check plagiarism. No such activity is reported and action taken against them.

### **3.4.8 Does the institution promote multi/interdisciplinary research? If yes, how many such research projects have been undertaken and mention the number of departments involved in such endeavors?**

The institute provides spectrum of programs in health sciences. The post graduates and super specialties are involved in research as a mandatory process by the regulatory authorities, during the research these departments interact and use facilities of other departments and clinical laboratories as applicable to the nature of research.

### **3.4.9 Has the University instituted any research awards? If yes, list the awards.**

Faculty with highest number of publications during the year is awarded with 10000 rupees price



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### **3.4.10 What are the incentives given to the faculty and students for receiving state, national and international recognition for research contributions?**

Incentives are given to the faculties and students to encourage them to receive appropriate recognition for the work.

Research committee which monitors also scrutinizes have drafted a policy through which all faculties and students who excel at this levels are provided with cash awards and certificates of excellence and research

### **3.4.11 Give details of the postgraduate and research guides of the institution during the last four years.**

List of pg guides 161 of the last four years, is maintained in office

## **3.5 Consultancy**

### **3.5.1 What are the official policy/rules of the institution for structured consultancy? List a few important consultancies undertaken by the institution during the last four years.**

Hospital consultancies:

1. Prakasam hospital ,Ongole
2. Elite hospital ,Tirupati
3. Sai Sudha multispeciality hospital, Tirupati
4. The Hospital administration department along with hospital engineering department provide expertise to other hospitals and nursing homes in designing, establishing diagnostic facilities and operation theatre
4. Department of community medicine
  - Survey on the cause of death in Nellore district.
  - Evaluation of coverage and compliance of MDA administration for elimination of lymphatic filariasis
  - Monitoring of second round of pulse polio immunization by observing booth activities, house to house visit , visiting high risk areas and transit points as external monitoring officers.( 22-1-2015 to 25-1-2015 )

### **3.5.2 Does the University have an industry institution partnership cell? If yes, what is its scope and range of activities?**

The institution has constituted industry institution partnership cell, the scope and range of activities are to participate in topics of mutual interest in health care institution services and



research

### **3.5.3 What is the mode of publicizing the expertise of the institution for consultancy services? Which are the departments from whom consultancy has been sought?**

The institution publicizes about its expertise through Narayana institute website, interactive sessions with the public on TV channels, pamphlets, Narayana health magazine(VAIDHYANARAYANAM) participation of faculty as resource persons in conferences and through regular workshops and CME's.

### **3.5.4 How does the institution utilize the expertise of its faculty with regard to consultancy services?**

already answer in question 3.5.1 Above

### **3.5.5 Give details regarding the consultancy services provided by the institution for secondary and tertiary health care centers and medical / dental practitioners.**

Narayana hospital being a tertiary care centre provides knowledge and training to medical practitioners. It also provides secondary and tertiary care to referred cases. Each department conduct updates in education service and research of their specialty through continuing medical education, conferences, workshops, seminars and symposium held in state and national medical association workshops

### **3.5.6 List the broad areas of consultancy services provided by the institution and the revenue generated during the last four years.**

1. Narayana medical college and hospital is a tertiary care unit, it sensitizes and gives expert opinion in various super specialty aspects like Endocrinology, Cardiology, Neurology, Nephrology, plastic surgery to various National Projects through Govt. and Non Govt. organization.
2. Some of the faculty offer their expertise to other institutions and universities in areas of research, examinations( as paper setters, evaluation etc )and also as resource persons.
3. Faculty of various departments are also involved in conducting regular CME'S and hands on training workshops for the private practitioners to keep them abreast with the latest advances.





## **Narayana medical college hospital, Services**

Narayana Medical Institutions situated in Nellore is catering to the Medical and Health needs of the Nellore District and also providing the General and Super speciality services to the neighboring 5 districts in the A.P. and also referrals from other districts for Superspeciality care.

The objectives of the Institute are to provide the General and Superspeciality care to the needy Rural, Semi- Urban and Urban populations of the catchment areas.

The various categories of services as part of our “Social Responsibility” are enumerated as follows.

1. Narayana Arogyamasthu
2. Ayushmanbhava
- 3 Narayana Prasuthi seva
- 4.Aarogyasri
- 5 DBCS
6. Medical Camps
- 7 Free Transport
8. Adoption
9. Outreach programmes
10. Mobile Medical Unit
- 11 Care of School Children
- 12.Vydyanarayanam

### **1. NARAYANA AROGYAMASTHU SCHEME( NAM)**

The Narayana Arogyamasthu Scheme has been the brain child programme of our founder chairman of Narayana Educational Society Dr. P. Narayana garu who is instrumental visionary for progression since the inception of Narayana Medical College In 1999 to an establishment of Narayana Medical Institutions by 2015.

The growth of enormous numbers of patients in the parent district of Nellore and the surrounding districts of Prakasam, Chittoor, Kurnool and Kadapa is due to the novel programmes from time to time with a view to reach the community and various levels of people by providing quality patient care with advanced state of the art equipment in the all the specialties.

Narayana Arogyamasthu scheme focuses on providing facilities by the General Hospital to the needy people in the community. The programme has been initiated with an objective of contributing specialty care to the catchment area of the district, which has been implemented since 6<sup>th</sup> January 2014.

The various components of patients care i.e out patient services, diagnostic services including laboratory, Radiology investigations, in patient admissions in the departments of General Medicine, General Surgery, Gynecology and Obstetrics, Orthopedics, Pulmonology,



Paediatrics, Ophthalmology, ENT, Dermatology and Psychiatry were included and the guidelines for various services provided have been defined.

In principle, this NAM scheme is of its first kind in the group of private Medical Colleges in the both Telugu states of Andhra Pradesh and Telangana. It has reached community population especially in the BPL families as well as middle class of people due to its 'no cost' to the OP consultation, basic investigations and for inpatients admission fee, Doctor charges, bed charges, surgery charges, Anaesthesia charges, Nursing charges, drugs and diet to the patients at free of cost.

Till date(July, 2015), we have provided services to nearly 12 Lakhs out patients, 50,000 surgeries and another 30,000 Medical management cases.

## 2. Ayushmanbhava

Ayushmanbhava Scheme has been introduced for providing health care to children (between day one to twelve months) at very nominal amount of Rs. 200/- in the department of Paediatrics. First one year period is very critical in childhood. This is helpful to them to improve their total health during the period first twelve months during which period utmost care is essential towards them. Vaccinations are given periodically free of cost to the children below one year. Scanning, Hb% Test, Chest X- ray, Urine and stool examination or done once in a period of one year In case a child is admitted as in patient due to severity of the disease doctors fee, nursing and bed charges in general ward and investigations are done free of cost.. Besides this certain concessions are given in intensive care units and free ambulance is provided at their door step to reach hospital. This scheme has become very popular, and this scheme is availed by mothers in and around Nellore district. The Ayushmanbhava was there from 2012 to 2014. Now this scheme discontinued as there is new scheme called "NAM" (Narayana Aarogyamasthu) under which this Aarogyamasthu is done free of cost.

**3. Narayana Prasuthi Seva (NPS):** This seva is a Novel and the cheapest programme for below poverty limited pregnant / antenatal mothers at very nominal amount of Rs. 1000/- provided by Narayana General Hospital. It is very much useful from 3<sup>rd</sup> month of pregnancy till the delivery ,whether normal (or) Caesarian section . The total care including OP no. of admissions are totally "free" till the delivery, which includes the investigations, drugs and disposables and surgery (if any) charges. This program has been well accepted and become so popular that on average 3950 cases are done per annum under this program. This



Prasuthi Seva was there from 2011 to 2014. Now this scheme is discontinued as there is new scheme called “ NAM” (Narayana Aarogyamasthu) under which this prasuthi seva is done free of cost.

**4. Arogyasri Scheme:** One of the “crowns” in our Institute and to say proudly is the success story of Aarogyasri scheme Implementation. The institute is number one in private sector organization in numbers and quality patient care is this prestigious scheme of Govt of Andhra Pradesh. Under this scheme 428 camps were conducted throughout Andhra Pradesh and consultation was provided to 5,01,015 patients at O.P. in Narayana Hospital since beginning. 34,078 no of surgeries and 21,824 therapy cases were attended.

**5. D B C S:** This programme has been introduced by N.P.C.B ( National Programme for Control ling of Blindness) under the programme the patients suffering from cataract are benefitted and Narayana General Hospital has been providing cataract surgeries to the needy under the guidelines of DBCS . Under this programme 15,875 people have been benefitted from 2007 till date.

**6. Medical Camps:** To achieve the objective of social responsibility, the institute organizes Medical camps. Both general and speciality camps of 60 per month with basic investigation and drugs are provided free of cost. The cases requiring inpatient treatment at an average of 20 to 30 cases per camp are being given free transport and free treatment at our hospital.

**7. Free Transport:** We organize seven free buses for providing transport facility to around 1500 villages as scheduled in a week and average of 40 to 60 patients per bus utilize our services everyday and they are also dropped at home after completing the treatment.

**8. Adoption** of two village's i.e Venkatachalem and Chinthareddy Palem and providing comprehensive care to the total population. An average of 50-60 patients are admitted per month and are given free treatment.

**9. Out reach Programmes:** The administration regularly organizes Master Health Check-ups for identifying and screening of the morbid conditions like Hypertension, Diabetes and cancers at nominal price near to the common people at their door stop. The screening program revealed that 20% of the screened population found to be Diabetics and 3% of them are newly detected.

**10. Mobile Medical Unit (MMU):** The institute organized a Mobile unit under National Rural Health Mission (NRHM) a National Program for upliftment of Medical, Health and Family Welfare of Rural India. Our institute has deputed resident Doctors and Paramedics



with the basic equipment, covering nearly 27 villages with 80000 to one lakh population over a period of 3 years since Feb' 2007 to July'2010. It has concentrated on the family planning procedure, immunization in children, preventive measures for infectious diseases and HIV.

**11. Care of School Children:** The common problems of the school children are attended by the Mobile Team of Doctors from our Dental College and Hospital and the General Hospital. They regularly visit the scheduled schools to screen, treat and refer if necessary to the main hospital, on average 1500 children are screened every month. The Dental cases, Malnutrition, Helminth infections are regularly identified and treated.

**12. Vaidyanarayana:** Vaidya Narayanam News Magazine gives wide publicity to the people, The same is sent to all IMA faculty / libraries /public servants/RMP's/NGO's/Medical shops and those who are involved in the medical field in Nellore, Prakasam, Y.S.R. Kadapa and Chittoor districts by publishing articles , necessary information about the specialist and various services available at our hospital

### **3.6 Extension Activities and Institutional Social Responsibility (ISR)**

#### **3.6.1 How does the institution sensitize its faculty and students on its Institutional Social Responsibilities? List the social outreach programs which have created an impact on students' campus experience during the last four years.**

Students are sensitized about their social responsibilities from Ist yr of MBBS itself. Theory classes on social responsibility are taken for them. They are involved in conducting surveys and awareness programmes ,rallies, observation of important public health days at the field practice areas of RHTC and UHTC

#### **OUTREACH PROGRAMMES**

1. Household surveys to assess environment and nutritional status of the community
2. HIV/AIDS awareness campaign
3. Participation in school health programme
4. Hand washing awareness programme
5. Cancer screening programme
6. Visit to Anganwadi centres, situated in catchment areas of the hospital, UHTC and RHTC during the clinical posting where growth monitoring, health education is given by the students
7. Visit to schools in rural area by the students during clinical postings .
8. Visit to PHCs to understand primary health care



## 9. Visits to UHTC and RHTC

The institution has various innovative outreach programmes. Students of various professional courses like MBBS, have regular posting in rural and urban health centres and PHC's as a part of their academic activity. During these postings they conduct family surveys, are involved in awareness programmes,, rallies and observation of important public health days. Visits are arranged to Anganwadi centres and schools. Interns of different courses are posted on rotational basis in these health centres. These visits and training programmes are aimed at sensitizing and inculcating social responsibility and selfless service to the community at large.

Contributions of NMCH to institutional social responsibility include :

1. MEDICAL CAMPS : Conduct of regular general and speciality camps to the needy rural ,semi urban populations of the catchment areas.
2. Serving public through RHTC and UHTC – providing comprehensive health care to people residing in the catchment areas of these centres. Free tertiary care to the cases referred.
3. Participation in GOVT recognized health care programmes like:
  - a.Arogyashri programme
  - b. Govt sponsored insurance scheme for employees of
    1. AP state govt ( working and pensioners)
    2. Arogya bhadratha scheme ( AP police )
    3. Arogya Sahayata scheme ( proh and excise dept
    4. ESI corporation
    5. APSRTC
  - c. MOBILE MEDICAL UNIT
  - d. SCHOOL HEALTH PROGRAMME
  - e. DBCS PROGRAMME
  - f. Pulse polio programme
4. AWARENESS PROGRAMMES ;Are conducted at camps, field practice areas and also in the institution.
5. TRAINING PROGRAMMES :



### **3.6.2 How does the institution promote university-neighborhood network and student engagement, contributing to the holistic development of students and sustained community development?**

Under the able guidance of the faculty, the students are trained in a particular aspect. Students conduct household family surveys in the field practice area and also provide health education on prevention of diseases. The NSS unit of college is actively involved in conducting rallies and camps. Cooperation of various self help groups and gram Panchayat is sought in conducting community activities.

The institution has an excellent extensive networking with the community stake holders and it promotes by responding to their requirements concerning health. Cooperation of all gram panchayats, community leaders, NGO'S is sought in planning and implementation of various outreach activities. The various innovative approaches by the institution ensure and encourage active participation of the community leading to sustained and holistic development.

Undergraduates and postgraduates are involved in various community based activities which form an important part of the curriculum, thereby exposing and training them to the rural milieu. Family surveys encompassing socio-demographic, environmental, nutritional and morbidity details, health education programmes are some of the activities carried out in the field practice area of UHTC and RHTC. Sustenance is achieved by successive batches of students.

### **3.6.3 How does the institution promote the participation of the students and faculty in extension activities including participation in NSS, NCC, YRC and other National/International programs?**

The institution ensures active participation of students and faculty in the activities conducted regularly by the NSS unit of the college like rallies, awareness campaigns, polio immunization activities etc.

#### **NSS REPORT:**

1. A rally and health awareness campaign regarding Diabetes was conducted on 14-11-2012,2013,2014 at U.H.T.C, Saraswathi Nagar Nellore.
2. A health awareness campaign on exclusive breast feeding was conducted at UHTC, Saraswathi Nagar & RHTC, Venkatachalam (Field areas)  
On 1<sup>st</sup> week of August 2012,2013, 2014, 2015



On Occasion of “(World breast feeding week)

3. A rally & awareness programme on prevention of HIV/AIDS conducted at field practice area of UHTC, Saraswathi Nagar RHTC, Venkatachalam was conducted on 1<sup>st</sup> Dec, 2012,2013,2014.
4. An IEC activity regarding prevention and control of malnutrition was conducted from 1<sup>st</sup> – 7<sup>th</sup> September, 2012 2013,2014 on occasion of “National Nutrition week”.
5. A health awareness programme regarding prevention of cancer was conducted on 7<sup>th</sup> November 2012,2013,2014 on occasion of “National Cancer Awareness day” at UHTC & RHTC.
6. An awareness programme regarding pulse polio immunization under Universal Immunization programme (U.I.P) was conducted at Narayana Medical college campus and UHTC, Saraswathi Nagar & RHTC, Venkatachalam on December & January months of 2012,2013,2014.
7. An awareness programme regarding pulse polio immunization under Universal Immunization program (U.I.P) was conducted at Narayana Medical college was conducted on 7<sup>th</sup> April .
8. An awareness programme regarding “Mental health on occasion of “World Mental Health day 10<sup>th</sup> Oct 2012,2013,2014 was conducted at UHTC, Saraswathi Nagar & RHTC, Venkatachalam.
9. A rally & health awareness programme regarding prevention and control of T.B was conducted on 24<sup>th</sup> March, 2012,2013,2014 on occasion of world TB day at UHTC, Saraswathi Nagar.
10. An awareness programme regarding Environment & sanitation was conducted on 5<sup>th</sup> June 2012,2013,2014 on occasion of world environment day at UHTC, Saraswathi Nagar & RHTC, Venkatachalam.
11. An awareness programme regarding blood donation was conducted on 14<sup>th</sup> June 2012, 2013,2014 & 2015 on occasion of world blood Donation day at UHTC, Saraswathi Nagar & RHTC, Venkatachalam and Red Ribbon club was formed among students of 4<sup>th</sup> & 6<sup>th</sup> Semester Medical students of NMC & H.
12. An awareness programme regarding hazards of Tobacco chewing & smoking was conducted on occasion of “World Tobacco day” on 31<sup>st</sup> May 2012,2013,2014





& 2015.

13. An awareness programme & counselling regarding prevention of suicides was conducted at Narayana Medical College, Nellore on occasion of “World suicide prevention day on 10<sup>th</sup> Sept, 2012, 2013, 2014

14. A rally & awareness programme regarding prevention of road Traffic accidents and Importance of wearing seat belts & importance of wearing seat belts & Helmets was conducted from NMC to Trunk road Nellore on 1<sup>st</sup> Aug, 2012, 2013, 2014.

15. An awareness programme regarding family planning & population control was conducted on occasion of “World population Day” 11<sup>th</sup> July 2012, 2013, 2014 at UHTC, Saraswathi Nagar & RHTC, Venkatachalam.

16. A health awareness programme regarding prevention of vector borne diseases (Malaria, filarial, Dengue fever & chicken gunya) was conducted on 1<sup>st</sup> week of October 2012, 2013, 2014 at UHTC, Saraswathi Nagar & RHTC, Venkatachalam.

17. On awareness programme regarding safe institutional delivery, prenatal & post natal care to pregnant women was conducted at UHTC, Saraswathi Nagar & RHTC, Venkatachalam field area on 20<sup>th</sup> January 2012, 2013, 2014 & 2015.

### **3.6.4 Give details of social surveys, research or extension work, if any, undertaken by the institution to ensure social justice and empower the underprivileged and the most vulnerable sections of society?**

#### **Surveys and research –**

1. The students posted to the dept of community medicine during their clinical postings are involved in family surveys, wherein they study the various determinants of health like demographic, socio-economic, environmental and nutritional status of the families.

2. The post graduate students of community medicine are involved in various surveys like,  
1. Survey on the cause of death in Nellore district.

2. Evaluation of coverage and compliance of MDA administration for elimination of lymphatic filariasis.

3. Monitoring of pulse polio programme in Nellore district ( External monitoring officers )

4. The research work carried out by the post graduates of community medicine are usually community based studies on vulnerable and under privileged sections of the society.

#### **Extension work**





## **1. Narayana Aarogya Masthu:**

Free surgeries, medicines and food provided for BPL families ( Those not covered under Arogyasri scheme )

## **2. NAACH ( Narayana advanced approach to child health)**

The institution conducts student health programmes as a part of NAACH every week on Saturday with 40 students of 1<sup>st</sup> to 10<sup>th</sup> standard belonging to different Government and Private schools in and around NMCH. Students who are going to attend the above programme are screened in ENT, Ophthalmology, Paediatrics Dermatology departments and their anthropometric measurements are taken. To and Fro transportation & Lunch is arranged for the students who are going to attend the Programme. Students who need specialized services of advanced care are referred to the concerned departments for further management or treatment.

## **3.Narayana Prasuthi seva**

Pregnant women during their first trimester are registered. Necessary tests are performed including ultrasonography and are provided with continuous medical support throughout pregnancy. The delivery is conducted free of cost and if required caesarian sections are done and entire expenditure( drugs, investigations, disposables, surgery ) is borne by the institute. Nominal amount is collected as registration fee. The objectives of this scheme is to fulfill the goals of NRHM by facilitating institutional delivery thereby reducing infant mortality and maternal mortality

### **1. Supplementary food to pregnant mothers**

Protien rich food is provided to pregnant mothers at UHTC field practice area.

### **2. Implementation of school health programme (Jawahar Bala Arogya Raksha ) scheme**

### **3.6.5 Does the institution have a mechanism to track the students' involvement in various social movements / activities that promote citizenship roles?**

- Monitoring of students attendance in community related activities.
- Mentoring system for students by the faculty

The college has mechanism to track the students involvement in institutional social responsibility and citizenship role activities. The college has constituted committee for extension activities and institutional social responsibility to which student members are nominated



### **3.6.6 How does the institution ensure the involvement of the community in its outreach activities and contribute to community development? Give details of the initiatives of the institution that have encouraged community participation in its activities.**

The institution has brought out certain initiatives and has been implementing them to ensure community participation in its outreach activities;

1. The PROs visit the villages and wards and inform the people about the services that would be provided by the institution regularly.

2. The involvement of community is facilitated by local bodies, govt bodies and NGOs. Sarpanch and ward members assist the institution by providing a platform for services. Pamphlets are distributed to the people, Posters are displayed at prominent places to create awareness about the same.

3. Free transport facility from villages everyday,

The institute provides two free buses for free transportation of patients to the hospital from the neighboring villages and they are dropped back after treatment everyday .

4.. Mobile medical units – The institute organizes a mobile medical unit as under the auspices of NRHM for providing medical and family welfare services to the rural population at the door step.

6. Adoption of village (Venkatachalam ) and providing comprehensive health care through our rural health training centre. Referred cases are provided free tertiary care .

3. Health camps- General and speciality camps are conducted every month and basic investigations and drugs are provided free of cost. Master health check ups for identifying and screening of diseases is done at nominal cost.

4. Arogyasri scheme- Our institute has played a very active role in implementation of the prestigious health scheme of government of A.P. The enormous number of consultations and investigations done speak about its success.

The college has designated extension officer who builds rapport with the community outreach activities and contribute to community development. The committee for extension activity with student members represented as members have initiated to projects, get details from the concern

### **ASTHRA**

An innovative research project ASTHRA ( Application of science and technology for health in rural areas ) is in progress..Departments of community medicine, OBG and general



surgery are involved in this screening programme. Triple cancer screening ie cervix, breast and oral is done free of cost at the camps are conducted in rural areas..At the camp health education is given to create awareness of common cancers , and the importance of screening at the early stage is stressed upon...

## **NAACH programme**

The institute conducts student health programmes as a part of NAACH ( Narayana Advanced approach to Child Health) in Narayana Medical College and Hospital. every week on Saturday with 40 students of 1<sup>st</sup> to 10<sup>th</sup> standard belonging to different Government and Private schools in and around NMCH. Students attending the above programme are screened in ENT, Opthal, Paediatrics, and Dermatology departments and their anthropometric measurements are taken.

To and Fro transportation & Lunch arranged for the students who are going to attend the Programme.

Students who need specialized services of advanced care are referred to the concerned departments for further management or treatment.

## **07<sup>th</sup> Feb, 2015:**

40 students from Sri Pragati High school were screened as a part of the NAACH programme. Out of these 40, 4 students were referred to Dental College for Dental Caries, 2 students were referred to ENT for CSOM, one student was referred to Opthal for Squint, and One more student was referred to Dermatology for Tinea Versicolor.

All the students who have attended were given Health Cards filled with their health status and anthropometric measurements. Health and Nutritional education was given to all the students using AV methods.

## **REPORT OF PULSE POLIO IMMUNIZATION, FEB, 2015.**

### **CHITTOOR DISTRICT**

**EXTERNAL MONITOR: Dr. D. Srinivas Rao, Junior Resident-Cum-Tutor,  
Dept of Community Medicine, Narayana Medical college, Nellore.**

Monitoring of the Second round of the pulse polio immunization, conducted from 22 to 25 JAN, 2015, was done on behalf of the Dept of Community Medicine.

The following were the important observations and recommendations.

**1. BOOTH ACTIVITY:** Twenty booths were checked on 22 Feb, 2015 in and around Sri Kalahasti, Thottambedu. There were three persons available at most of the booths.



Anganwadi Workers and ASHA's were there in booths. Teachers were seen as volunteers in most of the booths. The banners were displayed near the booths and at almost all road junctions, better than the first round. Cold chain was maintained properly at all booths. There was good knowledge about VVM to at least one in four members. The polio vials were maintained in stage I or II, mostly in stage I. Since Polio Indelible marker was not available at many booths, they were using Kores permanent marker as a substitute, and so finger marking was not perfect. Tally marking of the sheets and finger marking was done properly on left little finger in most of the booths.

**2. HOUSE-TO-HOUSE ACTIVITY:** House-to-House visits were monitored from 23 and 24 FEB, 2015 for 2 days. They were Kalahasti Urban, Erpedu PHC, Renigunta. About 60 houses with 100 children were checked. None of the children were found as unvaccinated. However the P marking needs improvement. Dates or arrows or sometimes P markings are missing, in about 3 to 4 places. In rest of the areas, it is done correctly. However it is good to note that no child was missed.

**3. HIGH RISK AREAS:** About 14 high risk areas were covered. Construction sites or Brick kilns or Nomads at Rice mills and migrant people at Road were seen in the areas- Renigunta, Kammappalli, Thottambedu, Kalahasti, kuppam baduru etc. About 56 children were checked. All of them have received polio vaccine.

**4. TRANSIT POINTS:** Tirupathi Railway station, Kalahasti railway station & bus stand, Reniguta Airport and bustand were visited. All children were given polio vaccine in most of the booths.

**Conclusions:** Even though there were minor lapses in the operation, they did not affect the overall efficacy of programme. Not even a single child was missed. Based on these observations, it seems, 100% coverage is achieved.

## REPORT OF PULSE POLIO IMMUNIZATION, FEB, 2015. NELLORE DISTRICT

**EXTERNAL MONITOR: Dr. Y. Vishnu Vardhan, Junior Resident-Cum-Tutor,  
Dept of Community Medicine, Narayana Medical college, Nellore.**

Monitoring of the Second round of the pulse polio immunization, conducted from 22 to 25 FEB, 2015, was done on behalf of the Dept of Community Medicine.

The following were the important observations and recommendations.



**1. BOOTH ACTIVITY:** Eighteen booths were checked on 22 JAN, 2015. They were the following: Kavali and Thummalapenta PHC areas. There were three persons available at most of the booths. Anganwadi Workers and ASHA's were there in booths. Community volunteers are not available in many booths and I didn't see anyone mobilizing children to the Booths. The banners were displayed near the booths and nearby booth areas. They were not seen at other places like road junctions etc. Cold chain was maintained properly at all booths. There was good knowledge about VVM to at least one in four members. The polio vials were maintained in stage I or II, mostly in stage I. Indelible polio finger marking was seen only in 2 or 3 booths and the rest are using Kores permanent marker, and they are not using that effectively. Tally marking of the sheets and finger marking was done properly on left little finger in most of the booths.

**2. HOUSE-TO-HOUSE ACTIVITY:** House-to-House visits were monitored from 23 and 24 FEB, 2015 for 2 days. They were Isakapalli, ramatheertham, Kovurpalli, Ramalingapuram. About 59 houses with 140 children were checked. None of the children were found as unvaccinated, even though one child was found without finger marking in a house, and the parents claimed he was vaccinated in Gudur. Also the P marking needs improvement. Dates or arrows or sometimes P markings are missing, in about 1 or 2 places. In rest of the areas, it is done correctly. Teams were not met, as they finished H-H visits before 11 Am. However it is good to note that no child was missed.

**3. HIGH RISK AREAS:** About 16 high risk areas were covered. Construction sites or Brick kilns or Nomads at Rice mills and migrant people at Road were seen in the areas- Iskaapalli, Kovur, kavali, Jagadev peta and Ramatheertham etc. About 50 children were checked. All of them have received polio vaccine.

**4. TRANSIT POINTS:** RTC Bus Station, Kavali and Nellore Railway Station were visited. All children were given polio vaccine in most of the booths.

**Conclusions:** Even though there were minor lapses in the operation, they did not affect the overall efficacy of programme. Not even a single child was missed. Based on these observations, it seems, 100% coverage is achieved.



### 3.6.7 Give details of awards received by the institution for extension activities and/contributions to social/community development during the last four years.

The college has received national & international recognition for its performance in research and institutional social responsibility described above.

### 3.6.8 What intervention strategies have been adopted by the institution to promote the overall development of students from rural/ tribal backgrounds?

The students from rural and tribal background are identified by mentorship committee. These students are encouraged to participate in activities pertaining to citizenship role, personality building session, English language classes, bridge courses.

### 3.6.9 What initiatives have been taken by the institution to promote social-justice and good citizenship amongst its students and staff? How have such initiatives reached out to the community?

Students are the members of the committee few of the activities conducted are as follows

Sl.no	Areas	Initiative
1	Ragging	Implementation of anti-ragging rules as per UGC guidelines has helped in building a healthy rapport among the students
2,	Environmental protection	- Regular plantation of trees to keep the campus green - Involvement in Swach Bharath scheme
3.	Medical ethics	Regular CMEs conducted
4.	good citizenship	Creation of citizenship awareness

### 3.6.10 How does the institution align itself with the annual themes/programs of WHO/ICMR?

The institution aligns itself with the annual themes / prog of WHO / ICMR in the following ways :

WHO-

1. *World health Day*, and other important public health days are observed both at the institution as well in the field practice areas. Rallies , awareness campaigns are conducting in the community. CME and workshops are held at the institution



ICMR

1. ICMR studentship projects
2. Use of Scientific literature published by ICMR for research, teaching and practice of evidence based medicine.

### **3.6.11 What is the role of the institution in the following extension activities?**

#### **\* Community outreach health programs for prevention, detection, screening, management of diseases and rehabilitation by cost effective interventions.-**

ASTHRA (Application of Science and Technology for Health in Rural Area) has been designed for Cancer Screening by this Institute.

- Screening, diagnosis and management of diseases is done in cost effective manner at Rural Health Center, Urban Health Center and neighbouring community.
- The institute regularly conducts various health camps ( speciality and superspeciality camps ) in villages of Nellore district for screening, diagnosis and management of diseases, thereby taking health care services to the door step.
- RHTC and UHTC set up in Venkatachalam and Saraswati nagar refer the cases to Narayana hospital for free tertiary care.
- Regular screening and treatment camps conducted for leprosy patients, orphans, fishermen and beggars.

#### **\* Awareness creation regarding potable water supply, sanitation and nutrition.**

- \* -Students as a part of the family survey during their clinical posting create awareness about potable water, sanitation, and nutrition.
- \* - NSS programme
- \* - Regular extension activities like camps
- \* - school health programmes

#### **\* Awareness creation regarding water-borne and air-borne communicable diseases.**

- As a part of family survey by students of different courses during their field postings.
- Narayana health magazine (Vaidhya Narayanam
- live interactive sessions on TV Channels
- Distribution of pamphlets
- Conduct of health education programmes
- Awareness programmes conducted by faculty in community.
- Observation of important public health days like World TB day,





# NARAYANA MEDICAL COLLEGE

**\* Awareness creation regarding non-communicable diseases - cardiovascular diseases, diabetes, cancer, mental health, accident and trauma, etc.**

\* As a part of family survey by students of different courses during their field postings.

\* Narayana health magazine (Vaidhya Narayanam

\* live interactive sessions on TV Channels

\* Distribution of pamphlets

\* Conduct of health education programmes

\* Awareness programmes conducted by faculty in community.

\* Observation of important public health days like world diabetes day, world cancer day, etc.

**\* Awareness creation regarding the role of healthy life styles and physical exercise for promotion of health and prevention of diseases.**

In collaboration with Naturopathy and yoga college in the campus, awareness is created regarding the importance of healthy life style and physical exercise, balanced diet for health promotion and prevention of diseases.

**\* Awareness creation regarding AYUSH Systems of medicines in general and / or any system of medicine in particular.**

**\* Complementary and alternative medicine.**

yoga and naturopathy hospital in the campus provides clinical support to the referred cases.

Regular yoga training sessions are also conducted

**\* Pharmaco economic evaluation in drug utilization**

\* The institutes infection control committee conducts assessment on drug use periodically and gives valuable inputs for developing antibiotic policy.

**\* Participation in national programs like Family Welfare, Mother and Child Welfare, Population Control, Immunization, HIVAIDS, Blindness control, Malaria, Tuberculosis, School Health, anti tobacco campaigns, oral health care, etc.**

\* The strategies of the different national programmes are implemented at narayana hospital, at the RHTC and UHTC as a part of the health care delivery.

\* Cataract surgeries are done at the institution under District Blindness control Programme.

\* We have a DOTS centre and DMC ( designated microscopy centre ) under RNTCP Programme.

\* ICTC for counseling and testing of HIV /AIDS patients under AIDS control programme.

\* Promotion of mental health and prevention of substance abuse.

**Chinthareddypalem, Nellore - 524003, A.P. India**





- \* Adoption of population in the geographical area for total health care. Venkatachalam village with a population of 26,000 is adopted to provide total health care.
- \* Research or extension work to reach out to marginalized populations.
- \* Post graduate students in the department of community medicine are involved in conducting studies and research work in rural areas and among the marginalized population.
- \* - The institute also observes the important public health days like, World AIDS day, World TB day, World cancer day and utilizes this opportunity to interact with the community and create awareness among them

### **Promotion of mental health and prevention of substance abuse.**

- \* Anti tobacco campaign conducted by departments of oral pathology and public health dentistry

### **Adoption of population in the geographical area for total health care.**

Venkatachalam village with a population of 26,000 is adopted to provide total health care and academic training to the students of different courses through Rural health training centre. urban slum in Saraswati nagar , with a population of 30,000 is provided health services by urban health training centre.

- \* **Research or extension work to reach out to marginalized populations.**
- \* Post graduate students in the department of community medicine are involved in conducting studies and research work in rural areas and among the marginalized population ASTHRA (Application of Science and Technology for Health in Rural Area) has been designed for Cancer Screening by this Institute. Screening, diagnosis and management of diseases is done in cost effective manner at Rural Health Center, Urban Health Center and neighboring community.

### **3.6.12 Do the faculty members participate in community health awareness programs? If yes, give details.**

Yes, The faculty of dept of community medicine conduct regular awareness in the field practice area of RHTC and UHTC. The faculty from other departments also participate in awareness camps organized by different clubs, NGOs, etc.. Faculty are also invited to talk about various diseases in TV programmes of local channels. Faculty also contributes articles for the health magazine and news papers.



### **3.6.13 How does the institution align itself and participate in National program for prevention and control of diseases?**

This institution serves as tertiary care centre and caters to medical and health needs of Nellore district and also provides general and super speciality services to the neighboring districts.

The urban health centre and rural health centre of the institution provide basic primary health care to the population in its catchment areas, in line with NRHM -Regular camps are conducted by different departments in the neighboring villages.

## **3.7 Collaborations**

### **3.7.1 How has the institution's collaboration with other agencies impacted the visibility, identity and diversity of campus activities? To what extent has the institution benefitted academically and financially because of collaborations?**

1. Memorandum of understanding between SVUniversity Tirupathi and Narayana medical college hospitals .1<sup>st</sup> july 2013 ,SVU and NMC jointly participate in the development of teaching ,training and research activities. Under this MOU some of the facilities of SVU will be utilized for animal experimentation (preserving samples).

2. Memorandum Of Understanding between Vikram SimhapuriUniversity Nellore and Narayan medical college Nellore -- 27th September 2014. Both VSU & NMC will jointly participate in the development of training and NMC is providing research activities.NMC is providing certain facilities for doing research.

3. Memorandum of understanding between SRMUniversity & Narayana medical college on 21st july 2015.For the development of links /collaboration in the areas of Learning & teaching including academic programme, exchange of students, exchange of faculty development of collaborative research projects.

a. MOU linked collaborations have helped in faculty development through organization of scientific activities like workshops.

Collaborations with local bodies, NGO'S and other organizations has brought about better exposure of students to the community

### **3.7.2 Mention specific examples of how these linkages promote**

\* Curriculum development



To develop flexible need based curriculum for undergraduates and post graduates.

\* Internship

Interns posted in various departments are involved in various camps conducted. Their participation in such camps builds confidence in management of cases independently, improvement in knowledge and development of management skills.

\* On-the-job training

To improve performance and to assess the needs of the community with special reference to primary secondary and tertiary care

\* Faculty exchange and development

Faculty academic development through conduct of scientific sessions and workshops.

Research

Sharing of research infrastructure for carrying out multicentric research

\* Publication

For publication of quality papers in national and international journals

\* Consultancy

Image building of the institute.

\* Extension

Extension activities like health camps, awareness programmes contribute to academic and skill based training in all courses ( medical). By the various outreach activities and in collaboration with government and non government bodies we are able to serve the people of nellore district.

\* Student placement

Training received during pursuance of different professional courses facilitates student placement in government ,private sector and self employment

\* Any other (specify)

**3.7.3 Has the institution signed MoUs or filed patents with institutions of national/international importance/other universities/ industries/corporate houses etc.?**

**If yes, how have they enhanced the research and development activities of the institution?**

The institution has signed MoUs with

- 1.Sri Venkateswara University , Tirupati
2. Vikrama Simhapuri University , Nellore



3.University of North Texas, Texas, U.S.A

4. College of Medical Sciences, Nepal, affiliated to Kathmandu University

MoUs in process

1. Leeds University

yes, these collaborations have facilitated in faculty development ,improved the quality of teaching ,learning process and research

### **3.7.4 Have the institution-industry interactions resulted in the establishment / creation of highly specialized laboratories / facilities? Yes**

Advanced research centre

2.Facilities in clinical laboratory

3.Animal house

### **3.7.5 Give details of the collaborative activities of the institution with the following:**

\* Local bodies/ community

\* State government / Central government /NGOs

\* National bodies

\* International agencies

\* Health Care Industry – Biomedical, Pharmaceutical, Herbal, Clinical Research Organization (CRO)

\* Service sector

\* Any other (specify)

Sl.no	Collaborating bodies	Activities
1	Localbodies /communities	-Participation in health camps and awareness programmes. -School health camps -Conduct of community based research projects - Swaach Bharat campaign - tree plantation



2	State govt /central govt /NGOs	NTR Aarogya Seva Programme- Aarogya shree card holders are provided free consultation and investigations DBCS programme- free cataract operations Collaborations with NGOs like Swarna bharati trust and Bheemashetty Rajeshwarama health trust –provide preventiveand promotive services
3	National bodies	-ICTC-AIDS control prog -DOTS centre and DMC- RNTCP -Family welfare programme
4	International agencies	<b>WHO</b> - pulse polio immunization and monitoring - T.B Surveys
5	Healthcareindustry-biomedical, pharmaceutical, herbal, CRO	
6	Service sector	Provision of tertiary care through health insurance to A.P state govt. employees and pensioners, A.P police, APSRTC, ESI corporation, S.H.A.R
7	Administrative agencies	Providing medical assistance and aid during natural calamities like floods and cyclones and also in case of major accidents.

### 3.7.6 Give details of the activities of the institution under public-private partnership.

1. The rural health training centre at Venkatachalam village providing curative, preventive and promotive services, along with training to medical students.
2. The institution has the permission to utilize three primary health centres at Varigonda, Indukurpeta, Muthukur for teaching programmes to students of Narayana Medical college..



Medical care is provided to the people by specialists once in a month in each of the above primary health centres.

3. Training of medical officers.
4. Survey on the cause of death in Nellore district.
5. Evaluation of coverage and compliance of MDA administration for elimination of lymphatic filariasis.

*Any other information regarding Research, Consultancy and Extension, which the institution would like to include.*



**CRITERION IV:  
INFRASTRUCTURE AND  
LEARNING RESOURCES**



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## Criterion IV: Infrastructure and Learning Resources

### 4.1 Physical Facilities

#### 4.1.1 How does the institution plan and ensure adequate availability of physical infrastructure and ensure its optimal utilization?

The college is recognized by apex bodies affiliating University that meets and exceeds the requirement of infrastructure provide such programs and applicable hospital services; however, committee for infrastructure maintenance identify the needs of such expansions and initiate actions as required. The available infrastructure is optimally utilized.

#### 4.1.2 Does the institution have a policy for the creation and enhancement of infrastructure in order to promote a good teaching-learning environment? If yes, mention a few recent initiatives.

The Associate dean academic and chairperson infrastructure maintenance have drawn. Infrastructure policy for teaching learning process and are generated policy document with clear guidelines.

**Lecturer galleries** - There are 5 Air condition lecturer theaters of gallery type with seating capacity of 300 students each. All lecture theaters are provided with independent AV aids clinical lecture gallery with 300 seating capacity is available in the Hospital. The lecture theaters are shared by all the departments in programmed manner. All Lecture Halls are smart class rooms having e-learning and virtual class facility.

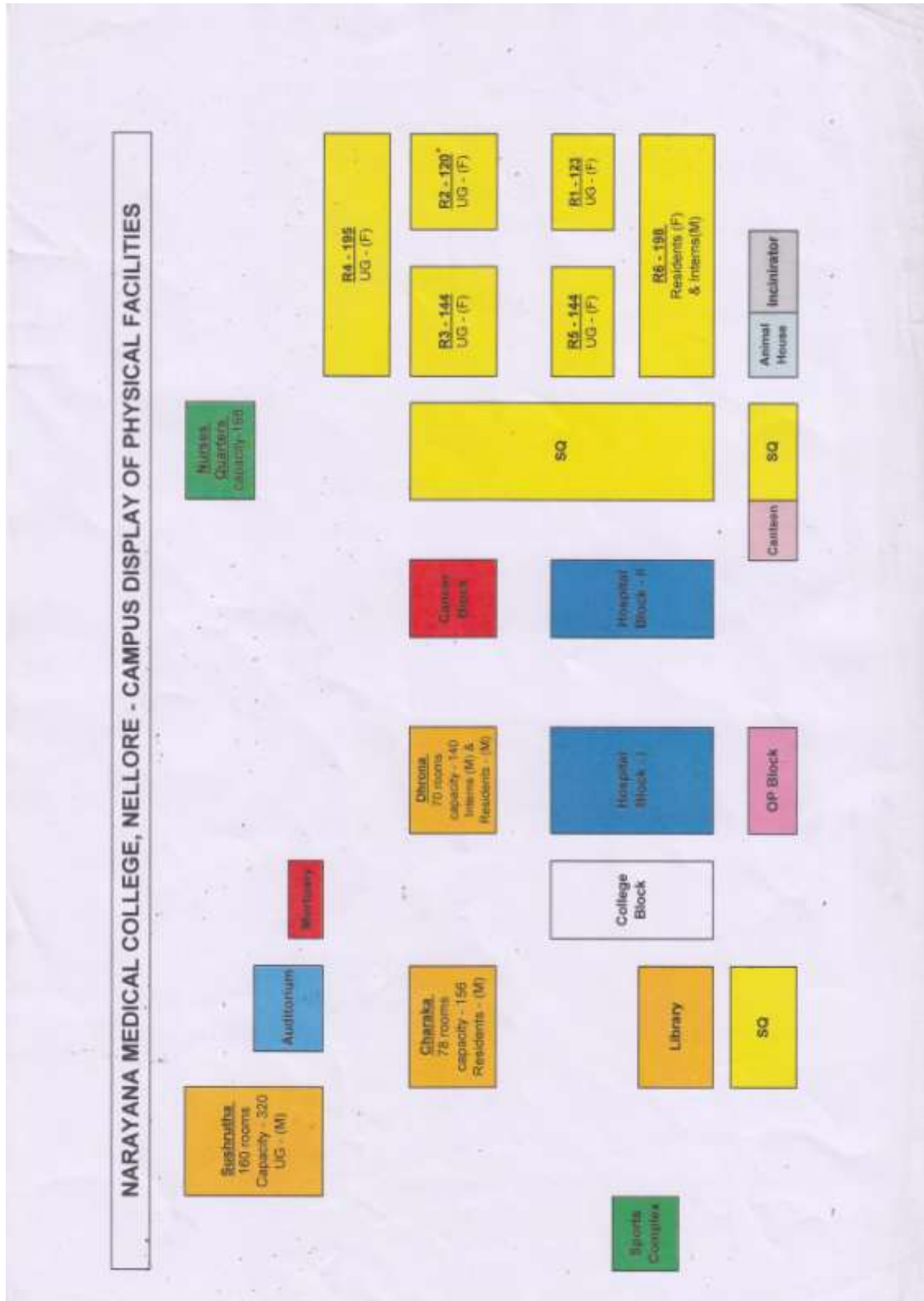
#### 4.1.3 Has the institution provided all its departments with facilities like office room, common room and separate rest rooms for women students and staff?

The institution provided all its departments with facilities like office room, common room and separate rest rooms for women students and staff

#### 4.1.4 How does the institution ensure that the infrastructure facilities are barrier free for providing easy access to college and hospital for the differently-abled persons?

The entire campus and infrastructure is totally complied with specially abled and gifted persons, the institution provides ramps, wheel chairs at every floor and lift facilities and such ever needs are managed to provide care.







## **4.1.5 What special facilities are available on campus to promote students' interest in sports and cultural events/activities?**

A cultural committee regularly monitors and encourages the students to participate in various intra college & inter college cultural competitions. An 800 capacity central air conditioned auditorium is available with reclining comfortable seats, colorful lights and LCD projector and high end audio visual aids for conducting cultural programmes. The students perform dancing, Singing, Fashion show and are awarded medals and prizes based upon the performances.

## **4.1.6 What measures does the institution take to ensure campus safety and security?**

### **Security Services in NMC:**

- The hospital atmosphere is always filled with emotions, excitements care and happiness, death and sorrow. The hospital staff, Doctors, Medical Students, Nurses and other hospital employees operate in a tense atmosphere resulting in irritation, confrontation, conflicts and aggression, threatening the life of hospital staff from the patient attendants and their relatives and also from media. Hospital uses very costly equipments, fixtures and machines whose safety is essential. Not only hospital but also safety of patients, attendants and their property is the moral duty of the hospital. The safety of the Doctors also be taken for the consideration of their safety.
- Hence two Security Services introduced and security was strengthened by allocation of areas & duties in Medical campus. During the provision of Security personals to the Medical Campus, the HOD/Security has given clear instructions and guidelines to the said private security agencies regarding the fitness of Security personnel in physically and health conditions to perform his security duties to the satisfaction of administration and the management of the NMG. All the Security personnel were carefully selected, critically interviewed and antecedents verified. Their bio-data with photos were taken for record.

### **The two existing Security services deployed at the following places in NM campus:**

#### **RANA Security:**

1. Temple
2. Doctors residential quarters
3. Rohini Girls Hostels + Research center
4. Nursing college & Hostels
5. Nursing college Entry point (Toll gate)
6. Gas Plant
7. Dhanvanthri Working Nursing Hostels
8. Mortuary + Generator Room
9. Auditorium + NRI PG hostel



10.Boys Hostel 14. Stadium 15.Medical College & New Extension Areas 16.General Hospital &New Extension Areas 17.New OP Block.

## **S.A.K.S.Security:**

1. Main gate 2.Super Specialty Hospital 3.Emergency Causality 4. Chairman House 5. Traffic places in our campus.

## **Implementation of Integrated Security System:**

Designing an integrated security system is the most appropriated way to meet the facility's needs and protect hospitals against potential threats. In an integrated system, several available products and solutions (alarms, hospital access control, and CCTV security systems) are used to create a customized security strategy.

Security staff can then view people entering and leaving the area. It can also be used in lobbies, operating rooms, labs and pharmacies, among others. Cameras can even be programmed to count the number of people moving through an area or identifying and reporting.

## **The following Electronic Gadgets under process for Purchase:**

### **Door Metal detectors (DMD) & Hand Metal detectors:**

Human Counting Machine, Language Scanner, Sniffer Dogs Squad are under training at Krishna Patnam Port Security Academy, Muthukur

## **Training:**

Training is a continuous process to the Security personals. Regularly refresh trainings are being given on various security subjects like checking, Mobile patrolling in the nights, Fire Fighting, First aid, Disaster Management and behavior with public.

## **Success Situation in the NM Campus:**

- Thefts were controlled 99%
- All public and employees restricted Beedi, cigarettes, paan masala etc. inside the Hospital/College premises
- Proper parking of Vehicles and Wearing of Identity Cards by the all employees.
- Patients Passes checking, Allowing the visitors in visitors time.
- All Inward & Outward Material was screened.



## 4.1.7 Facility of Animal House

### \* Is animal house maintained as per CPCSEA guidelines? - YES

All animals acquired from NIN Hyderabad, lawfully as per CPCSEA and have separate rooms for Quarantine, Stabilization And Separation of animals. The central animal house has trained people to look after the animal house. Other physical facilities like animal room doors were rust, vermin and dust proof. Floors are smooth, moisture proof, nonabsorbent. Flooring is maintained satisfactorily by wet vacuuming or mopping with appropriate disinfectants. Temperature And Humidity Control of the animal house is maintained. Ventilating and air-conditioning systems is designed appropriately. Power and lighting (12 hour dark and light cycle), noise control was maintained satisfactorily. Animal food supply from NIN, Hyderabad, and Animal Bedding is absorbent, free of toxic chemicals with round the clock clean water facility.

### Whether records of animal house are maintained for learning and research activities? – Yes,

\* The Animal House was maintaining with following records: Animal House plans, Animal House staff record, Health record of staff! Animals, All SOPs relevant to the animals, stock, purchase and sales records, Minutes of institute Animals Ethics Committee Meetings, Records of experiments conducted with the number of animals used, Death Record, Clinical record of sick animals, Training record of staff involved in animal activities.

\* Animals will be issued only after the approval from the IAEC through form-D

### \* Does the animal house have approval for breeding and selling experimental animals as per CPCSEA guidelines? - NO

\* At present the Central Animal house is not in a position to breed and not supplying the animals to others in view of renewal of the license.

## 4.1.8 Provide the following details on the use of laboratories / museums as learning resources:

\* Number

\* Maintenance and up-gradation

\* Descriptive catalogues in museums

\* Usage of the above by the UG/PG students

Answered in 2.3.25 above



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## 4.1.9 Dentistry -- NA

- \* Dental chairs in clinic – specialty wise
- \* Total dental chairs
- \* Schedule of chair side teaching in clinics – specialty wise
- \* Number of procedures in clinics per month and year
- \* Mobile dental care unit
- \* Facilities for dental and maxillofacial procedures
- \* Dental laboratories

## 4.1.10 Pharmacy - NA

- \* Pharmaceutical Science Laboratories
- \* Museum for drug formulations
- \* Machine room
- \* Herbarium / crude drug museum
- \* Balance room
- \* Chemical store
- \* Instrumentation facilities
- \* Pilot plant
- \* Computer aided laboratory

## 4.1.11 Yoga and Naturopathy - NA

- \* Demonstration hall with teaching facility to cater to the needs of the students.
- \* Diet Service Management Department
- \* Yoga cum multipurpose hall for meditation and prayer
- \* Solarium compatible for multimedia presentation
- \* Mud Storage Unit
- \* Outdoor Facilities - Walking track with reflexology segment.
- \* Swimming Pool
- \* Naturopathy blocks



# NARAYANA MEDICAL COLLEGE

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## 4.1.12 Homoeopathy - NA

- \* Museum and demonstration room (Homoeopathic Pharmacy Laboratory, Pathology Laboratory, Community Medicine, Homoeopathic Materia Medica, Organon of Medicine including History of Medicine)
- \* Repertory with Computer Laboratory and Demonstration Room

## 4.1.13 Nursing - NA

- \* Nursing Foundation Laboratory
- \* Medical Surgical Laboratory
- \* Community Health Nursing Laboratory
- \* Maternal and Child Health Laboratory
- \* Nutrition Laboratory
- \* Pre clinical Laboratories
- \* Specimens, Models and Mannequins

## 4.1.14 Ayurveda - NA

- \* Herbal Gardens
- \* Museum Herbarium
- \* Panchakarma Facility
- \* Eye Exercises Clinic
- \* Kshara Sutra and Agni Karma Setup
- \* Ayurveda Pharmacy

4.1.15 Does the institution have the following facilities? If so, indicate its special features, if any.

- \* Meditation Hall under process
- \* Naturopathy blocks



## 4.1.16 Provide details of sophisticated equipments procured during the last four years.

### 2011 EQUIPMENT PURCHASES

SINo	ITEMNAME	QTY	Price	TOTAL
1	20133101-1 KARL STORZ COLD LIGHT FONTAIN XENON 300	1	352545	
2	22202011U110 IMAGE I PURE HD CCC WITH ICM CCU	1	589612	
3	22220055-3,IMAGE H3 3CHIP HD CAMARA HEAD	1	828922	
4	9526N 26" IID FLAT SCREEN MONITOR	1	321863	
7	AIR STERLIZER	3	112500	
8	BUBBLE POWER ULTRASONIC CLEANER	1	258750	
9	COAGULATION ANALYSER (SYSMEX CA- 50)	1	225000	
11	COLOUR DOPPLER ULTRASOUND,PROFOCUS 2202 ULTRA VIEW,HEALTH WARE	1	2477645	
13	DEFIBRILLATOR	6	1110000	
16	ECG MACHINE(12 CHANNAL)	5	300000	
17	ELECTRONIC ENDOFLATOR 26430508-1	1	285742	
18	ELISA PLATE READER	1	124800	
19	ELISA WASHER	1	124800	
22	GEL DOCUMENTATION SYSTEM	1	257625	
23	HEAT SEALING MACHINE	1	110925	
24	HEMODIALYSIS MACHINES	3	1620001	
25	HIGH PRESSURE HIGH VACUUM STEAM STERILIZER	2	1676796	
26	LITHOTRIPSY SYSTEM	1	100000	
27	MANMAN DRIVING UNIT	1	104000	
28	NEURO DRILL	1	1300000	
29	OPERATION TABLE,105 E-3,HOSPITAB	1	141875	
31	PERISCOPE (PC BASED VASCULAR	1	150000	

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	ANALYSER)			
32	PYROTECH DRYING CABINET	1	258750	
34	SYRINGE PUMP	50	1437500	
35	TRACHEAL INTUBATION FIBER SCOPE,LF-TP(OLYMPUS)	1	425000	
36	ULTRA SOUND COLOR DOPPLER MECHINE(MY LAB 25 GOLD PORTABLE)	1	1150000	
37	ULTRASOUND COLOR DOPPLER SYSTEM HD6	1	780000	
38	WASHER DISFENCTOR-DOUBLE DOOR	1	393491	
39	X-RAY(500 MA)	1	500000	<b>1,75,18,142</b>
<b>2012 EQUIPMENT PURCHASES</b>				
SINo	ITEMNAME	QTY	Price	
1	(OLYMPUS ACTERA)GASTROINTESTINAL VIDEOSCOPE ETC	1	1550000	
3	ATOMIC ABSORPTION SPECTRO PHOTO METER	1	1873198	
4	AUTOCLAVABLE DRILL SET	1	220000	
5	BINOCULAR MICROSCOPES	3	109008.9	
6	C - ARM	1	1575000	
7	CENTRIFUGE	2	193608	
11	CRRT MACHINE	1	1000000	
12	DEFIBRILLATOR	4	600000	
16	ECG MACHINE(12 CHANNAL)	4	180000	
17	ELECTRO CAUTRY SET	1	790000	
18	HOLTER MACHINE	1	210000	
19	INCUBATOR	1	154366.8	
22	MONITOR ASTRAL	25	1600000	
24	MONITOR STAR 50 N WITH ETCO2	5	1370000	
25	MONITOR STAR 50N	25	2250000	
26	OT TABLES	2	285000	

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28	RAT BP APPARATUS	1	355057	
29	REAL TIME PCR	1	1651595	
35	SURGICAL DIATHERMY	4	946640	
37	VIDEO BRONCHOSCOPE	1	700000	
40	X-RAY(500 MA)	1	150000	
41	YAG LASER 30W	1	3000000	<b>2,07,63,473</b>

## 2013 EQUIPMENT PURCHASES

SINo	ITEMNAME	QTY	Price	
1	60 MA MOBILE X-RAY MACHINE	4	660000	
2	ACT MACHINE	2	399000	
3	ANAESTHESIA WORK STATION	4	1300000	
6	BAIR HUGGER (PATIENT WARMING SYSTEM BH-505)	2	209475	
8	BINOCULAR MICROSCOPE OLYMPUS CH20 C	3	105210	
9	BLOOD STORAGE CABINET	1	154999.95	
10	BMD/DEXA SCAN	1	2700000	
11	CARDIAC AUTONOMIC NEUROPATHY ANALYSER	1	115000	
12	CENTRAL MONITORING SYSTEM	1	105000	
15	CPAP MACHINE	4	462000	
16	CR SYSTEM	1	1275000	
17	CT SCANNER	1	38400000	
18	CTG MACHINE	1	178500	
19	DEFIBRILLATOR	4	740000	
22	FLASH STERILISER	1	131250	
23	HARMONIC SCALPEL	1	1134797	
24	HBA1C MACHINE	1	1200000	
25	HD CAMERA SYTEM	1	2324991.9	
26	HEMODIALYSIS MACHINES	6	3900000	
29	IUI LAB SET	1	140000	

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30	IV FLUID WARMER	2	126000	
32	MANMAN DRIVING UNIT	1	119500.5	
33	MONITOR B-20	50	9034000	
34	MRI IMAGER	1	91500000	
35	NEONATAL WARMER	3	173250	
36	NEURO DRILL	1	323474.55	
38	OT LIGHTS	4	427300	
39	OT TABLES	2	285000	
40	PERIPHERAL VASCULAR DOPPLER	1	115000	
41	PH MANOMETRY SYSTEM	1	1700000	
42	PORTABLE ULTRA SOUND	1	1000000.4	
44	SLEEP LAB SYSTEM	1	556500	
45	SONOSURG GENERATOR	1	1400000	
46	SURGICAL DIATHERMY	1	190000	
47	TRAUMA CARE SET	1	2799999.3	
48	ULTRA SOUND SYSTEM	1	2200000	
50	VENTILATOR	4	3500000	
51	VIDEO INDIRECT OPHTHALMOSCOPE	1	178500	
53	X-RAY (300MA)	1	550000	
54	X-RAY (800MA)	1	2707666.8	
55	X-RAY(500 MA)	1	650000	<b>17,51,71,415</b>

## 2014 EQUIPMENT PURCHASES

SINo	ITEMNAME	QTY	Price	
4	APEX LOCATORS	2	119869.1	
7	BI PAP (BREAS VIVO 30 NON INVASIVE)	2	231000	
14	ELECTRONIC DENTAL CHAIR	19	1295048.8	
16	HYDRO SOLDERING UNIT	1	130292.5	
17	I.O.P.A X-RAY MACHINE	3	399300	
21	LAPROSCOPE SET	1	654000	
29	OT LIGHTS	3	675000.9	
35	RVG UNIT	1	165000	

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42	VENTILATOR	1	1200001.4	
3	C - ARM	1	3600000	
4	CELL SEPARATOR	1	1995000	
7	ECG MACHINE(12 CHANNAL)	7	370000	
8	HEMODIALYSIS MACHINES	6	4095000	
9	HUMALYZER 3000 CLINICAL CHEMISTRY ANALYZER	1	273000	
10	HYPOTHERMIA MACHINE	1	472500	
13	PEADIATRIC CYSTO-RESECTION SET	1	349999.65	<b>1,60,25,012</b>

	<b>TOTAL EQUIPMENT YEAR WISE( ONE LAKH ABOVE)</b>			<b>22,94,78,042</b>
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## 4.2 Clinical Learning Resources

### 4.2.1 Teaching Hospital

**Clinical Learning Resources -Teaching Hospital** -The hospital was established in 1999 - 2000 and located in same premises. This is owned by the management. it has 1560 beds and provides 14 specialty services and super specialty services provided are Cardiology, cardiothoracic and vascular surgery, Neurology, Neurosurgery, Nephrology, Urology, surgical Gastroenterology, Medical Gastroenterology, Medical endocrinology, Plastic surgery, Number of beds in ICU/ICCU /PICU /NICU ; ICU 24, ICCU 12, PICU 8, NICU 8 Beds, Number of operation theatres; 22 ,diagnostic service departments; Radiology; well equipped starting with X-Ray, ultra sound, color Doppler, mammography, Two Ct scans and Two MRI scans . Cardiology; ECG ,Echo ,TMT and CATH LAB , Neuro diagnostics like EEG and EMNG lab and Gastro with Endo scopy and video endoscopy ,Pulmonology with PFT and Bronchoscopy .**Clinical laboratories;** the central laboratories with clinical Biochemistry, clinical pathology and Microbiology with automated equipment and 24 hrs support to clinical departments. Service areas VIZ. Mechanized Laundry, kitchen catering to both General ward free meals For insurance patients to the bed side and Similar canteen to patient attendees, visitors Well equipped CSSD with quality monitoring of records and maintenance of equipment, Backup power supply with 1000and two 500 kv generators, Both central, split and window, AC plant, Manifold Rooms with Liquid oxygen plant ,Pharmacy



services; covers both OPD and IP areas and 24 hr outlet near emergency. Blood bank services; Services provided-Whole blood, Packed red cells, Fresh frozen plasma, Platelet concentrate, Cryoprecipitate, Platelet pheresis, Donor grouping, Patient & Donor grouping, cross matching, Screening for viral diseases on collected blood units,

**Instrument-**Blood Collection Monitor – 1 -4, Aphaeresis Machine, Tube Sealer – 1 Nos., Table Top Centrifuge, Bio-Rad Incubator, Bio-Rad Centrifuge, ELISA Washer, ELISA Reader, Incubator 37<sup>0</sup>C, -80<sup>0</sup>C freezer, -40<sup>0</sup>C freezer, Blood bank refrigerator – 1 (Screened packed red cells), Blood bank refrigerator – 2 (Unscreened), Blood bank refrigerator – 3 (Screened whole blood), Platelet agitator (Unscreened), Platelet agitator (Screened), Plasma Thawing bath, Cryo-Bath, Refrigerated Centrifuge, Tube sealer – 1 Nos., Sterile Connecting Device, Blood Bag Weighing Scale, Laminar flow, Central Monitoring System, Autoclave, Hot-Air Oven. Thermo scientific Pipette 5-50µl, Thermoscientific Pipette 5-50µl, Thermoscientific Pipette 100 µl, Thermoscientific Pipette 20-200 µl, Thermoscientific Pipette 30-300 1 Thermoscientific Pipette 100-1000 µl, Thermoscientific Pipette 1000 µl, Biosystem Pipette 100 µl, **Enhanced Chemiluminiscence – Ortho Clinical Diagnostics (J&J)**, whole blood and components available, a qualified person MD Transfusion Medicine is available. Pharmacovigilance, Mortuary, cold storage facility; available which is monitored by the security and PROs and they facilitate the needy with respect to the deceased. , hospital display the services provide free of cost. Mechanism for redressal of complaints made by patient's present. complaint box, feedback mechanism present.

## ✓ 9. Collections & Issues:

Year	Collections	Issues					
		Whole blood	Packed red cells	FFP	Platelet concentrate	Cryoprecipitate	SDP
2011	6243	4363	1893	1403	684	0	0
2012	6550	3802	2702	1807	1266	139	0
2013	13680	5256	6877	4051	1742	329	0



2014	9105	2337	6231	3566	923	187	62
2015 (up to Jun 30)	4567	14	3995	2337	645	51	98

Pharma covigilance, Mortuary, cold storage facility; available which is monitored by the security and PROs and they facilitate the needy with respect to the deceased. , hospital display the services provide free of cost. Mechanism for redressal of complaints made by patient's present .complaint box, feedback mechanism present . The hospital display charges levied for the paid services. The names of the faculty and their fields of specialization displayed prominently in the hospital. Pictorial representation of the various areas of the hospital displayed in a manner to be understood by illiterate patients. Display of ante-natal, mother and child health care facilities at prominent locations, Patients rights education boards, leaflets are provided at appropriate locations.

Hospital has the proper mechanism to obtain informed consent .The hospital has well-defined policies for prevention of hospital-acquired infections. the hospital have effective systems for disposal of bio-hazardous waste approved by regulatory authorities ,state of the art safety systems are deployed. Campus management feedbacks, service management feedback are used to improve the facility on continual bases. The college is Unique in providing undergraduate, post graduate , super specialties and research, programs , and the learner is provided with excellent learning experiences across the campus throughout the programs .and and is the unique strength of the organization The Institution has a Rural Health Center at village Venkatachalam, 20 Km from the College. There are four sub-centers under the RHC. The population under our RHC is about 30000. In the Center, about 60 to 100 patients avail services every day. The Center provides Medicare including emergency care, laboratory investigations of urine, sputum, blood etc. Tests to detect HIV, HBsAg, Urea, Sugar, Pregnancy, malaria etc are done by Diagnostic Kits, for diseases like AIDS, Malaria etc. Interns an postgraduates are rotated here, as per the guide lines of MCI. Specialist camps are provided on regular basis. Health and Awareness camps are also provided. Family Health Folders are prepared and maintained. The Institution has an Urban Health Centre at Saraswathi Nagar, Nellore. It also covers a population of about 30000. The above mentioned



services and facilities apply to UHC also, except that, it is not a residential posting for the Interns..

## TOTAL PATIENTS TREATED 2006-2014

OPREF	Y2006	Y2007	Y2008	Y2009	Y2010	Y2011	Y2012	Y2013	Y2014	Y2015 (up to July)
GM	64735	67958	66515	73064	97017	104685	252386	270029	214120	96791
GS	63581	65075	62422	70345	73763	80808	144397	164929	209328	125037
ORT	40064	41453	42590	46986	45655	54393	95501	100697	109125	64853
OPH	24882	30899	33449	39708	22459	30446	51384	56546	65672	39934
ENT	21991	23897	25640	27533	22226	28894	50803	54140	59017	35765
OBST	27871	38664	31297	42859	28612	35174	43513	47950	53365	32720
GYN	22070	21777	23956	24193	18981	23185	29404	31069	33782	21175
PAED	41475	40228	41823	42770	38464	44411	74424	79455	87638	52895
PULM	23914	24765	31615	36030	25327	28589	42393	46893	65278	43222
DVL	22966	19848	29694	29249	24679	29231	44837	47384	52802	30910
PSY	22752	18401	29207	29750	15594	16179	27121	30633	34204	21349
Total	376301	392965	418208	462487	412777	475995	856163	929725	984331	564651

The hospital display charges levied for the paid services. The names of the faculty and their fields of specialization displayed prominently in the hospital. Pictorial representation of the various areas of the hospital displayed in a manner to be understood by illiterate patients. Display of ante-natal, mother and child health care facilities at prominent locations, Patients rights education boards, leaflets are provided at appropriate locations. Hospital has the proper mechanism to obtain informed consent .The hospital has well-defined policies for prevention of hospital-acquired infections. the hospital have effective systems for disposal of bio-



hazardous waste approved by regulatory authorities. The BMW is segregated at source by the Nursing staff and monitored by the duty nursing supervisors and a Check list is maintained in the ward. Sharps are mutilated with the needle destroyers available in the ward itself. color coded bins with bags are kept in each ward and display posters are pasted in each ward for awareness of every Health care worker. The infectious waste is collected in yellow and Red bags is packed, transported to common garbage site and from there is picked up daily by ENVIRON BIO care services with whom MOU is made, state of the art safety systems are deployed. Campus management feedbacks, service management feedback are used to improve the facility on continual bases.

#### **4.2.2. What specific features have been included for clinical learning in the out-patient, bedside community and other clinical teaching sites?**

OPD:-CASE/PATIENT Demonstration in each OPD in the Demo rooms to undergraduates and PG's.

INPATIENT WARDS:-Bed side teaching with patients in each ward, unit wise in inpatients block in the Demonstration room and seminar rooms.

COMMUNITY: RHC venkatachalam }

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Interns an postgraduates are rotated here, as per the guide lines of MCI. Specialist camps are provided on regular basis. Health and Awareness camps are also provided. Family Health Folders are prepared and maintained.

The Institution has an Urban Health Centre at Saraswathi Nagar, Nellore. It also covers a population of about 30000. The above mentioned services and facilities apply to UHC also, except that, it is not a residential posting for the Interns.

UHC Saraswathi nagar} Interness are posted batch wise and they are activity involved in community reach programmes and provide clinical care to the catmint population.

OTHERS: Common academic programs, Monthly meetings, Zonal CME's, Conferences, Workshops.



Special Days: Guest lectures'/speakers : Interdepartmental Meeting, Infection control committee etc..

## 4.2.2 What specific features have been included for clinical learning in the out-patient, bedside, community and other clinical teaching sites?

The college is Unique in providing unique undergraduate, post graduate, super specialties and research, the learner is provided with excellent learning experiences across the campus throughout the programs and exceeds in such requirements of regulatory requirements and is the unique strength of the organization.

## 4.3 Library as a Learning Resource

**4.3.1 Does the library have an Advisory Committee? Specify the composition of the committee. What significant initiatives have been implemented by the committee render the library student/user friendly?**

LIBRARY ADVISORY COMMITTEE				
SL.NO.	NAME	DESIGNATION	DEPARTMENT	MOBILE
1	Dr. B.L. Kudagi	Chairperson	Pharmacology	9346536772
2	Mr. Subrahmanyam	Member Coordinator	Librarian	8142569481
3	Dr. Suman Babu	Member	Anatomy	9866567467
4	Dr. Satyavathi	Member	Physiology	9980566665
5	Dr. B. Harshavardhan	Member	UG Male Student	9704438742
6	Miss. Asha Reddy . K.	Member	UG Female Student	9030074849
7	Dr. S. Murali Babu	Member	PG Male Student	9032243525
8	Dr. Bhuvana Sri. N	Member	PG Female Student	9030074849

\*Significant initiatives that have been implemented by the committee are as follows;





We have conducting the Library Resource Committee (LRC) meeting twice in monthly or as per need of the hour, to discuss and solve library requirements and related problems.

- 1) Allocation of fund to departments for the purchase of new books, new editions Of old books, ordering for new journals, and periodicals, improvement of library service and infrastructure facilities.
- 2) Updating the existing e-library facilities.
- 3) Display of newspaper clipping on vacancies/ competitive examinations and other academic related activities/notices/circulars.
- 4) Implementation of library Software, Internet & Photocopying facilities.
- 5) By getting recommendations from individuals for adding new material.
- 6) By introducing biometric system to record the user information and axis to Library.
- 7) By deputing library staff to conferences workshops and e-library up date Programs.

#### 4.3.2 Provide details of the following:

##### Total area of the library (in Sq. Mts.)

- Total Central Library area: 4200 Sqmt.
- Total area for Medical wing: 2800 Sqmt.

\*Total seating capacity.

- SEATING CAPACITY IN THE CENTRAL LIBRARY : 778
- STACK AREA - 1 : 96
- STACK AREA – 2 : 60
- STACK AREA - 3 : 48
- STAFF READING AREA : 24
- FIRST FLOOR : 120
- SECOND FLOOR : 250
- P G READING AREA : 50
- JOURNALS READING AREA : 80
- INTERNET & DIGITAL LIBRARY : 50

**Working hours (on working days, on holidays, before examination, during Examination, during vacation)**

- All working days: 6.00 am to 12.00 midnight



- One month before the examination period:24 hours
- Sundays / Holidays: 9.00 am to 1.00 pm

**\*Layout of the library (individual reading carrels, lounge area for browsing And relaxed reading, IT zone for accessing e-resources)**

- The LRC includes a stack area, undergraduate and postgraduate areas, faculty & students lounge, internet browsing centre, audio-visual room, circulation counter, photocopy section, and 'group think' for discussions.
- IT zone for accessing e-resources like
- Proquest: Proquest is the database containing e-journals and evidence base learning for more than 350 publications.
- Ebsco Medical: It is also a database containing e-journals for more than 150 publications.
- Elsevier: Elsevier is the database containing e-journals for more than 50 publications.Fig(1.0)

A screenshot of Library Stack Area of the central library.

**\* Clear and prominent display of floor plan; adequate sign boards; fire alarm;**

**Access to differently-abled users and mode of access to collection**

- The Board in ground floor indicates the layout of the library.
- The name plates/boards above the door of each section and on the Racks and cupboard provide easy access to the users.
- Fire extinguishers exits are available for all areas in the library for emergency.
- Adequate signage directs the users to the collection.

**\*List of library staff with their qualifications Name Designation Qualification**

- Mr. .S M S Prabhakar Sastry, Librarian M.L.I.Sc
- Mrs. N.Subrahmanyam ,Asst.Librarian M.L.I.Sc.,
- Mr. M. Ravi Kumar ,Asst. Librarian M.L.I.Sc
- Mr. P.Anwesh, Lib.Asst B.tech
- Mr. D.RaviTeja, Jr. Asst. Intermediate
- Mr. P.Chaitanya, Jr. Asst Intermediate
- Mr. K.PremKumar, Attender S.S.C
- Mr. I.Srinath , Attender S.S.C
- Mr.I.Surendra ,Attender S.S.C
- Mr.E.Sandeep ,Attender S.S.C



- Mr.P.Venkateswarlu ,Xerox operator

### 4.3.3 Give details of the library holdings:

#### \*Print (books, back volumes, theses, journals)

- Books - 24792
- Journals - (227(Foreign & Indian)printed & 1100 e-journals)
- Magazines - 4
- News Papers – 3(Eenadu,AndhraJyothi,The Hindu)
- Back volumes – 1020 Volumes (Issues –12155)
- Thesis -180

#### \* Average number of books added during the last three years

- 2012-1173
- 2013 - 886
- 2014 - 8674

#### \* Non Print (Microfiche, AV)

- Not available

#### \* Electronic (e-books, e-journals)

- PROQUEST: 1194
- EBSCO Medical: 2120

#### \*Special collections (e.g. text books, reference books, standards, patents)

- Yes. Thesis and Dissertations, Monographs, journal back volumes in pdf format etc.

#### \*Book bank

- There is no designated book bank per se, and all book collections are integrated into the LRC.

#### \*Question bank

- Previous Question papers of the affiliatedUniversity and otherUniversity and available for the information of the student.
- Both print and e-format question banks are available for I-IV MBBS as well as for MD of all specialties

#### \*4.3.4 to what extent is ICT deployed in the library? Give details with regard to Library automation



• The LRC (Library Resource Committee) services are automated through a software program called **LIBRARY INFORMATION SYSTEMS (LIS)**, Designed & DEVELOPED BY OUR COLLEGE SOFTWARE TEAM. The LIS has the Online Publication Access Catalogue (OPAC) module for easy access to the LRC material.

- Total number of computers for general access 50
- Total numbers of printers for general access 02
- Internet band width speed □2mbps □√ 10 mbps □ 1 GB

#### \* **Institutional Repository**

• In 2014, the college library commenced the compilation of an institutional Digital Repository, assembling together e-copies of PDFs of journal articles/theses, class lecture notes (Medrc smarteach), PowerPoint presentations, etc., for access by all members of the college. The Digital Repository is accessible on the college intranet using the college IP address and allows computer-based access and search to extensive amounts of college teaching-learning and scholarly material such as published papers, dissertations and e-books. Fig(1.1)

#### \* **Content management system for e-learning**

Several materials prepared and developed by the college for modules such as Basic Life Support, Infection Control, Laboratory Safety, as well as other policies, are accessible to students using an username and password on the college's website.

#### \***Participation in resource sharing networks/Consortia (like INFLIBNET)**

• Yes. The college participates in resource sharing networks/consortia such as NTRMEDNET Consortium(through it affiliating university, the NTRUHS) Available resources(Proquest, Ebsco, Elsevier),Fig(1.2)

#### **4.3.5 Give details of specialized services provided by the library with regard to**

##### **Manuscripts**

• The library does not per se provide specialized services in relation to manuscript preparation and submission; however, research-experienced faculty members usually assist other faculty members and students in this process.

##### \***Reference**

• About 30 % of total books are reference books; dictionaries, encyclopedia etc. are available.

##### \***Reprography / scanning**



- Yes. The LRC includes a reprography/printing/scanning facility.

## **\*Inter-library Loan Service**

- The students also directly available the library facilities in the Narayana Dental College, a sister-concern institution.

## **\* Information Deployment and Notification**

- Available, Information on current Affairs, Employment Opportunities and Competitive exams deployed and notified for the benefit of the students.

## **\*OPACS**

- As aforementioned, the LIS (Library Information System) has the Online Publication Access Catalogue (OPAC) module for easy access to the LRC material, an updated version of which has been installed in the preceding five years. The OPAC module has an option to view the new arrivals in the LRC.

A screenshot of the search page of the college's OPAC'S

## **\* Internet Access**

- The college and the LRC provide internet access of 10 Mbps 1:1(leased line) band width.
- Available, Computers & Printer are used to draw information through Internet.
- Internet browsing facility is available for users from 9:00am to 10:00pm in the IT Lab. Facility to download and print online resource is available.

## **\* Downloads**

- Students and faculty members' queries related to downloading content are handled by the LRC's concerned technical staff, and resolution provided on a need basis.

## **\* Printouts**

- Yes, the printouts generated through the photocopy section.

## **\* Reading list/ Bibliography compilation**

- The OPAC module provides access to the LRC's reading list and bibliography Compilation .fig(1.4)

## **\* In-house/remote access to e-resources**

- While the EBSCO & PROQUEST database provides 'in-house' access to e-learning resources, the NTRMEDNET consortia provides remote access to e-resources.Fig(1.5)

## **\* User Orientation**

- Available, the fresh batch of students & New faculty admitted are given an orientation program Computer browsing for internet access and downloading of interesting material like



e- resource, Library resources, infrastructure facilities, time schedule, circulation of Books, assistance rendered by the library staff.

**\* Assistance in searching Databases**

- Available, Reference services and referral services are provide to all users by Library staff.

**\* INFLIBNET/HELINET**

- NTRMEDNET is made available.

**4.3.6 Provide details of the annual library budget and the amount spent for Purchasing new books and journals.**

Year	Budget Allocated	Budget Utilized
2010-2011	8500000	8169043
2011-2012	7000000	6898143
2012-2013	10000000	9015977
2013-2014	10000000	8763184
2014-2015	18000000	17184982

**4.3.7 What are the strategies used by the library to collect feedback from its users? How is the feedback analyzed and used for the improvement of the library services?**

- By feedback form, suggestion/complaint box, the feedback is obtained regarding
- Library services. The suggestions and complaints are addressed immediately by adopting good suggestions and making improvements in Library Services.
- The feedback of the user is consolidated in the Office. The report is analyzed by the library committee and efforts are taken to fulfill the needs of the Readers.

**4.3.8 List the efforts made towards the infrastructural development of the library in the last four years.**

- 30 New computer systems along with new furniture for the internet labs have been purchased
- CCTVs with cameras and T.V. screen to monitor the movements of the users have been installed.
- Biometric system adopted to record user information and to restrict only authorized persons to use.



- New AC machines for the library complex have been purchased and installed. Numbers of power points for connecting laptops are given in the library
- Library is Wi-Fi enabled new racks for library counters for storing records and files.
- Expanding journal area to accommodated new journals and back log journals.

## 4.4 IT Infrastructure

### 4.4.1 Does the institution have a comprehensive IT policy with regard to:

#### IT Service Management

##### ▪ Hospital Management System

A hospital information system is an element of health informatics that focuses mainly on the administrative needs of hospitals. It has the wide variety of reports for analysis and it integrated to Lab Information system and Radiology information system that can be used by the doctors in their OP desk and nursing stations. This will avoid the delay in treatment.

##### Student Information System

Student management system is a management information system for education establishments to manage student data. Student Information Systems (often abbreviated as SIS systems) provide capabilities for entering results of student test and other assessment scores, build student schedules, track student attendance, and manage many other student-related data needs in a college.

##### ▪ Library Information system

Health science professionals depend heavily on access to varied information resources to make intelligent and informed choices for education, patient care management and research protocols .Library management system provides all the necessary information about all the books.

##### ▪ Biometric management system

The Biometric management system is a professional fingerprint access and time attendance control system. It uses fingerprint instead of card system for access.it allows us to capture the real time attendance.

##### ▪ LAN Protection Software

LAN Protection Software using to restrict unauthorized user access .Software used high secured password policy. User Privileges applied



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## \* **Network Security**

\* **Network Security** is an organization's strategy and provisions for ensuring the **security** of its assets and of all **network** traffic. **Network security** is manifested in an implementation of **security** policy, hardware, and software.

## \* **Risk Management**

- Daily Backup to Remote servers
- Daily backup to Tapes
- Weekly Backup to Tapes
- Using NAS drives for backup
- Using Fireproof boxes for storage

## \* **Software Asset Management**

- Software Asset management is using to immediate stock and vulnerability details.

## \* **Open Source Resources**

### ▪ **OS ticket**

Open source software using to raise and solve the tickets from the clients. It seamlessly routes inquiries created via email, web-forms and phone calls into a simple, easy-to-use, multi-user, web-based customer support platform.

## \* **Green Computing**

- \* NAS boxes using for low power usage.
- \* Paperless Hospitality services.

### **4.4.2 How does the institution maintain and update the following services?**

#### \* **Hospital Management Information System (HMIS)**

#### \* **Electronic Medical Records System (EMR)**

#### \* **Digital diagnostic and imaging systems including PACS**

- Using GEPACS for doctors and students to view the patient CR, CT, MR, US images.

### **4.4.3 Give details of the institution's computing facilities i.e., hardware and software.**

#### \* **Number of systems with individual configurations**

- \* Number of systems with individual configurations

- 450 PC with following configuration





# NARAYANA MEDICAL COLLEGE

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- 300 Dual Core 1GB Ram with 500GB HDD
- 110 Dual Core 2 GB Ram with 500GB HDD
- 40 i3 2GB Ram with 1 TB HDD

\* **Computer-student ratio**

- 1:2

\* **Dedicated computing facilities**

- e-Journal access to students

An electronic journal is a periodical publication which is published in electronic format, usually on the Internet. Electronic journals have several advantages over traditional printed journals: You can search the contents pages and/or the full text of journals to find articles on a certain subject. We procured journal from NTRMEDNET consortium i.eProquest and ebscohost using user id and password they are facilitating students to access e-journals.

- Wi-Fi facility

\* **LAN facility**

- Manageable switches used for bandwidth consuming clients
- Cat-6 LAN cables are used for high reliability in operation
- UTM filtered data for more secured and robust network

\* **Wi-Fi facility**

- Bandwidth 60 mbps leased line 1:1 dedicated
- Open to all students and staff 24x7
- Uninterrupted service provided
- High end equipment's used for least downtime.

\* **Proprietary software**

- Licensed operating system, application software, anti-viruses

\* **Number of nodes/ computers with internet facility**

- 450 Nodes

\* **Any other (specify)**



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#### **4.4.4 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?**

- We will add up all the facilities to provide more and more access to the teaching aids like, video class rooms, on line lectures, on line communications, use of cloud computing, automation of lecture methods etc.
- Planned for High-end UTM box
- Smoke Detectors, Climate and temperature control devices in server room

#### **4.4.5 Give details on access to on-line teaching and learning resources and other knowledge and information database/packages provided to the staff and students for quality teaching-learning and research.**

Using MEDRC eLearning online courses helps students, practicing professionals acquire in-depth knowledge across diverse and inter-disciplinary life sciences topics making them more valuable

#### **4.4.6 What are the new technologies deployed by the institution in enhancing student learning and evaluation during the last four years and how do they meet new / future challenges?**

- Smart Class Room to nearly all departments
- Fiber net connectivity to reach all students and teachers

#### **4.4.7 What are the IT facilities available to individual teachers for effective teaching and quality research?**

- Smart Class Room
- LCD Projectors
- Computers / 1 Laptop to each
- Department for teachers
- Internet facility up to smart class room
- Internet facility to tables of teachers
- Free access to many International & National Journals through Infilibnet



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#### **4.4.8 Give details of ICT-enabled classrooms/learning spaces available within the institution. How are they utilized for enhancing the quality of teaching and learning?**

- Using MEDRC eLearning online courses Nearly all departments are Equipped with 1 or more Smart Class Rooms with IT facilities

#### **4.4.9 How are the faculty assisted in preparing computer-aided teaching-learning materials? What are the facilities available in the institution for such initiatives?**

- Faculty in the department is having computer operator

#### **4.4.10 Does the institution have annual maintenance contract for the computers and its accessories?**

Yes the college has AMC for the computers and its accessories

#### **4.4.11 Does the institution avail of the National Knowledge Network (NKN) connectivity? If so, what are the services availed of?**

NO

#### **4.4.12 Does the institution avail of web resources such as Wikipedia, dictionary and other education enhancing resources? What are its policies in this regard?**

- Annual budget provided for enhancing the resources is 50 lakhs (Approx.)

#### **4.4.13 Provide details on the provision made in the annual budget for the update, deployment and maintenance of computers in the institution.**

- Annual budget provided for enhancing the resources is 50 lakhs (Approx.)

#### **4.4.14 What plans have been envisioned for the transfer of teaching and learning from closed institution information network to open environment?**

By providing secure access to individual authenticated persons to gather information anywhere by keying in the credentials provided to them .they can access our online information system through web applications and mobile application. Based on the information access secure access provided by authenticating users with otp generated by us. This allows us to interchange information in real time in a more efficient manner.



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## 4.5 Maintenance of Campus Facilities

**4.5.1 Does the institution have an estate office / designated officer for overseeing the maintenance of buildings, class-rooms and laboratories? If yes, mention a few campus specific initiatives undertaken to improve the physical ambience.**

**4.5.2 How are the infrastructure facilities, services and equipments maintained? Give details.**

The associate dean administration ,with chairperson infrastructure maintenance and medical superintendent review , the infrastructure facilities, services and equipments maintained, also take the feedbacks from stakeholders and initiate appropriate measures.

**4.5.3 Has the institution insured its equipments and buildings?**

As part of our policy, college has taken consolidated insurance coverage for both buildings and equipments in Narayana Medical College and Hospital and other associated units.

*Any other information regarding Infrastructure and Learning Resources which the institution would like to include.*



**CRITERION V:  
STUDENT SUPPORT AND  
PROGRESSION**



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## CRITERION V: STUDENT SUPPORT AND PROGRESSION

### 5.1 Student Mentoring and Support

#### 5.1.1 Does the institution have a system for student support and mentoring? If yes, what are its structural and functional features?

YES. The college has mentor system for student support and Mentoring of academic and social performances. The Principal, Vice-principals, Mentors and student representatives meet regularly or in cases of emergency to discuss the academic, social or personal problems individually or collectively. The mentors are expected to

1. Monitor and collect the academic information of the mentees from all the respective departments.
2. If the mentees are hostlers they should collect information from the warden about the well being and regularity of the mentees in the hostel.
3. Discuss the collected data with the principal and take appropriate decisions when absolutely needed.
4. To provide psychological counseling when needed.

To inform the parents the progress of the mentees and wellbeing of their wards.

#### 5.1.2 Apart from classroom interaction, what are the provisions available for academic mentoring?

Students who need academic monitoring are basically slow learners and poor performers. They are provided separate tutorial classes to enhance their learning abilities to cope with academic requirements to get expected outcomes. The student's progress report is periodically sent to parents every month for their information.

#### 5.1.3 Does the institution have any personal enhancement and development schemes such as career counseling, soft skills development, career-path-identification, and orientation to well-being for its students? Give details of such schemes.

The graduates and post graduates of the institution opt mostly for self employment or further studies and hence there is no role for employment counseling. However the guidance and required information is extended by the placement cell regarding employment facilities including short service commission and other competitive examinations.



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## **5.1.4 Does the institution have facilities for psycho social counseling for students?**

YES. A regular clinical psychologist is available in the institution. The students are identified by the mentors /Faculty and they are being counseled after obtaining permission from the parents.

## **5.1.5 Does the institution provide assistance to students for obtaining educational loans from banks and other financial institutions?**

YES. After the admissions are completed there will be separate session for the parents to interact with the bank officials who are invited to guide them to obtain relevant information regarding loans and financial aids. Interested students can approach the college office and obtain relevant information and documents required for the loan/aid.

## **5.1.6 Does the institution publish its updated prospectus and handbook annually? If yes, what are the main issues / activities / information included / provided to students through these documents? Is there a provision for online access?**

The college regularly publishes its academic calendar regarding information about the periodic examinations, assessments, holidays and time table pertaining to every semester of students. The time tables and academic calendars are being accessed online through KIOSK facility provided to the students

## **5.1.7 Specify the type and number of institution scholarships / freeships given to the students during the last four years. Was financial aid given to them on time? Give details. (in a tabular form)**

NO financial aid/ Scholarships/ freeships are provided by the institution. Presently financial aid is provided to students for research projects from the institute research fund.

The institute helps and encourages the students to apply for Central and/or State merit scholarships available under various categories

## **5.1.8 What percentage of students receive financial assistance from state government, central government and other national agencies?**

Nearly 30% of admitted students get financial assistance from state government as fee reimbursement scheme from the government.



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## 5.1.9 Does the institution have an International Student Cell to attract foreign students and cater to their needs?

Yes

## 5.1.10 What types of support services are available for

- \* **overseas students** - The NRI /Overseas students are provided with Institutional familiarization programmes, language orientation and training programmes, Mentorship guidance and Academic counseling and regular medical care
- \* **physically challenged / differently-abled students-** The admissions are limited in their categories. Providing ramps at strategic points, Lift services are available, One to one service in library where ramps are unavailable to locate the books.
- \* **SC/ST, OBC and economically weaker sections** - The college helps the economically weaker sections by providing assistance in all the possible ways. Academic support by providing books, special classes if necessary. Guiding the students in applying for scholarships, financial aid and processing of loans etc. and with book bank faculty
- \* **students participating in various competitions/conferences in India and abroad**
- \* The college promotes and encourages all the students to participate in inter and intra University curricular and extracurricular activities by a) By providing sports kits, coaching the students. b) Providing transport expenditure when representing college at national or University level. C) Provides awards, certificates, medals to motivate the students in sports participation.
- \* **health centre, health insurance etc.** - The college provides concessional health services to all the students, Student sick rooms are provided
- \* **skill development (spoken English, computer literacy, etc.)** - Special assistance is provided to students coming from rural back ground, studies in regional languages and also for students poor in computer skills by conducting separate training hours during their curriculum
- \* **Performance enhancement for slow learners.-** conducting additional hours of teaching under the guidance of professors and mentors regularly.
- \* **exposure of students to other institutions of higher learning/ corporates/business houses, etc.** - Post graduates are posted for higher institutions as a part of their regular curriculum.
- \* **publication of student magazines, newsletters-** yes, once every year





**5.1.11 Does the institution provide guidance and/or conduct coaching classes for students appearing for competitive examinations (such as USMLE, PLAB, GPAT, NCLEX, CGFNS, IELTS)? If yes, what is the outcome?**

Yes, students are provided guidance for PG. Many students have gone and settled abroad/selected for post graduation.

**5.1.12 Mention the policies of the institution for enhancing student participation in sports and extracurricular activities through strategies / schemes such as**

**\* additional academic support and academic flexibility in examinations**

\* Academic support is provided by providing attendance to students participating in various University sports or cultural competitions. Additional hours of teaching will be conducted by discussing with the faculty of respective departments.

**\* special dietary requirements, sports uniform and materials**

\* Sports uniform with a college logo is provided free of cost to all participants and necessary travel expenditure will be provided.

**\* any other (specify)**

**5.1.13 Does the institution have an institutionalized mechanism for student placement? What are the services provided to help students identify job opportunities, prepare themselves for interviews, and develop entrepreneurship skills?**

Most of the Undergraduates and post graduates prefer self employment and further studies. The college displays any kind of placement opportunities widely in all the notice boards. The Alumni association and senior faculty guides the graduates in job placements and opportunities.

**5.1.14 How does the institution provide an enriched academic ambience for advanced learners?**

Providing special tutorial hours under the guidelines of HOD and E-learning beyond working hours.

**5.1.15 What percentage of students drop-out annually? Has any study been conducted to ascertain the reasons and take remedial measures?**

Less than 1% of students due to their personal reasons. In a medical college almost no one drops out. About 99% always complete the course.



**5.1.16 Give the number of students selected during campus interviews by different employers (list the employers and the number of companies who visited the campus during the last four years).**

The programs offered belong to health care services, the passed out students settle in private practice, join corporate hospitals or join for higher studies. However the placement cell looks into such needs of the learner

**5.1.17 Does the institution have a registered Alumni Association? If yes, what are its activities and contributions to the development of the institution?**

YES. Formed recently and in the process of acquiring the data base of all students with regard to their contact numbers, employment details, contact addresses, Email ID's, etc. This information will help the present students to obtain information regarding placements.

**5.1.18 List a few prominent alumni of the institution.**

S.No	Name of Alumni	Designation	Working place
1	Dr.P.Muni lakshmi	Assistant professor microbiology	Narayana medical college
2	Dr.N.Puneeth	Asst Professor Pediatrics	Narayana medical college
3	Dr.Sreedhar	Asst professor Dept of Urology	Narayana medical college
4	Dr.Pavan Kumar	WHO consultant, Polio	District of UP/Jharkand
5	Dr.Prabhakaran	WHO consultant, TB	Tamil Nadu District
6	Dr.Anand	TN state AIDS Program Coordinator	Chennai

**5.1.19 In what ways does the institution respond to alumni requirements?**

The institution obtains feedback from the alumni and provides inputs for revision, modifications and introduction to new academic programmes, revision of curriculum etc.

**5.1.20 Does the institution have a student grievance redressal cell? Give details of the nature of grievances reported. How were they redressed?**

Yes, The students approach the cell for accommodation, health services, financial matters, library, transportation, Hostels and the members of the cell redress their grievances promptly.



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This creates a good ambient and pleasant working atmosphere among the students and parents also. The cell also helps to solve the grievances of the Anti ragging committee also.

**5.1.21 Does the institution promote a gender-sensitive environment by (i) conducting gender related programs (ii) establishing a cell and mechanism to deal with issues related to sexual harassment? Give details.**

Yes. Establishment of sexual harassment prevention cell and its regulation is conducted as per the guidelines of Supreme Court of India. However no such incidents have been reported until now.

**5.1.22 Is there an anti-ragging committee? How many instances, if any, have been reported during the last four years and what action has been taken in these cases?**

YES. No such incidents are reported from the starting of the institution.

**5.1.23 How does the institution elicit the cooperation of all its stakeholders to ensure the overall development of its students?**

Periodical feedback from Teachers, Parents, Students and management are taken. Also periodical review meetings are held and their opinions are deliberated and implemented based on need. Continuous up gradation of the teaching, training and evaluation of the students is undertaken.

**5.1.24 How does the institution ensure the participation of women students in intra- and inter-institutional sports competitions and cultural activities? Provide details of sports and cultural activities where such efforts were made.**

Women students are given additional coaching and free kits to participate in sports competitions. Students participating in cultural competitions are given awards, medals, certificates to encourage and motivate active participation.

**5.1.25 Does the institution enhance the student learning experience by providing for rotation from the teaching hospital to the community and district hospital during the internship period?**

Yes. As part of their internship programme they are trained at community and district hospitals.



# NARAYANA MEDICAL COLLEGE

## 5.1.26 Does the institution have immunization policy for its students and staff?

No, but all of them are encouraged to protect themselves by vaccines like TT, Hep B Vac, PEP for HIV etc.

## 5.1.27 Does the institution give thrust on students growth in terms of:

\* **Physical development,-**

\* **Emotional control-**

\* **Social dimension and**

\* **Spiritual growth.**

\* Yes, Games, Sports are conducted. students are counseled by counselor

Personality development classes are taken. In these, emotional control, social and spiritual aspects are covered. Classes are conducted on Yoga, Meditation etc. We have a college of Yoga and Naturopathy. Many of students attend Yoga Classes.

o Yes, Festivals of all religions are celebrated and holidays are given.

## 5.2 Student Progression

**5.2.1 What is the student strength of the institution for the current academic year? Analyze the Program-wise data and provide the trends (UG to PG, PG to further studies) for the last four years.**

YEAR	UG	PG	P.hd.
2014	250	115	5
2013	150	119	5
2012	150	97	
2011	150	121	
UG to PG	Dr.Munilakshmi, Dr.Puneeth patak, Dr.Shashank, Dr.Skandha harshitha, Dr.K,Venkatesh, Dr.Satyashree, Dr.sarath Chandra, Dr.Anusha rao, Dr.Bharathi, Dr.Indu kaladhar,		
PG to Faculty	Dr.Muni lakshmi, Dr.Puneeth patak, Dr.Sreedhar,Dr.Sasikala,Dr.Uma.B.V., Dr.Kiran, Dr.Hari Krishna		
UG to PG to faculty	Dr.Muni lakshmi, Dr.Puneeth patak.		



## 5.2.2 What is the number and percentage of students who appeared/qualified in examinations for Central / State services, Defense, Civil Services, etc.?

None, Most of the students who cleared the undergraduate programme appeared for post graduate entrance examinations at various institutions and University. Around 25% of students are selected for post graduation at different institutions [central& state]

## 5.2.3 Provide category-wise details regarding the number of post graduate dissertations, Ph.D. and D.Sc. theses submitted/ accepted/ rejected in the last four years.

YEAR	TOTALSUBMITTED	ACCEPTED	REJECTED
2014	PG-117 P.HD-	<b>117</b>	
2013	PG-105 P.HD-	<b>105</b>	
2012	PG-72 P.HD-	<b>72</b>	
2011	PG-51 P.HD-	<b>51</b>	

## 5.2.4 What is the percentage of graduates under AYUSH programs employed in the following?

- \* **AYUSH departments/Hospitals,**
- \* **Multinational companies,**
- \* **Health clubs,**
- \* **Spas,**
- \* **Yoga wellness centers,**
- \* **Yoga studios,**
- \* **Health clubs,**
- \* **Own Yoga cubes/studios?**

Our Institution is recognized by Medical Council of India and follows Allopathic System of Medicine. Hence, this question is not applicable.



## 5.3 Student Participation and Activities

### 5.3.1 List the range of sports, cultural and extracurricular activities available to students. Furnish the program calendar and provide details of students' participation.

The College conducts college day, cultural day and sports day, literary day as per the calendar every year. All the students who are interested participate as per their interest. The cultural day is conducted every year and all the cultural events, singing, dancing, Monopoly are performed by the students. All the indoor and outdoor sports are conducted on sports day under the supervision of the institute physical director and the sports committee. The awards are distributed and the best team is selected. The students who win the prizes are selected for coaching and made to participate in various zonal events at various levels

### 5.3.2 Give details of the achievements of students in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. during the last four years.

Dr. NTRUHS - University TOP RANKS OF NARAYANA IN MBBS				
COURSE YEAR	<u>I MBBS</u> Name (Rank)	<u>II MBBS</u> Name (Rank)	<u>III MBBS</u> <u>PART - I</u> Name (Rank)	<u>III MBBS</u> <u>PART - II</u> Name (Rank)
2010	C. Abhishek (1)	G. Srilekha Reddy (4)	Meghana Jetty (1)	N. Vineela Reddy (10)
	A. Bhargavi (2)	S. Skandha Harshita (5)	P. Tulasi Kumari (9)	
	C. Kapil Karthikeya Reddy (3)	Sruthi Balla (6)		
	B. Mytreysi (5)	B. Gowthami (10)		
2011	D S Tejaswini (1)	J Jyothi Swaroop (1)	G. Srilekha Reddy (3)	
	Makani Tanuja (2)			

# NARAYANA MEDICAL COLLEGE



	<b>R Keerthi Reddy (2)</b>			
	<b>U L Sandeep Varma (4)</b>			
	<b>U Sowmya Devi (7)</b>			
	<b>J Indraja (8)</b>			
	<b>P Mansoor Alikhan (10)</b>			
<b>2012</b>	<b>P Sriharshitha (1)</b>	<b>C. Abhishek (1)</b>		<b>Sruthi Balla (2)</b>
	<b>Vede Druthi S (3)</b>	<b>E. Mounika (4)</b>		<b>S. Skandha Harshita (3)</b>
	<b>SRV Sudha Sai Bhavya (7)</b>	<b>A. Bhargavi (7)</b>		<b>G. Srilekha Reddy (8)</b>
	<b>K Bhavana (10)</b>	<b>Vamsi Krishna Suman D (8)</b>		
		<b>Musuku Manasa (10)</b>		
<b>2013</b>	<b>S. Aravind (1)</b>	<b>Jarugu Indraja (3)</b>		<b>Ch Sireesha Rani (2)</b>
	<b>M. Jahnavi (2)</b>	<b>Makani Tanuja (4)</b>		<b>Bhuvanasree N (5)</b>
	<b>K. Srinivasa Reddy (3)</b>	<b>R Keerthi Reddy (6)</b>		<b>Sai Suraj K N (6)</b>
	<b>Chakrala Teja (5)</b>	<b>Mangalapuri Sravya (9)</b>		<b>J Jyothi Swaroop (9)</b>
	<b>P Sriharshitha (6)</b>			
	<b>R Vishal (7)</b>			
	<b>P Lakshmi (8)</b>			
	<b>Samudrala Pavithra (8)</b>			

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	<b>Enuganti Likhita (10)</b>			
<b>2014</b>	<b>ASA Nivalika (1)</b>	<b>P Sriharshitha (4)</b>		<b>C. Abhishek (10)</b>
	<b>P Sharanya (2)</b>	<b>P Hemanth (8)</b>		
	<b>Alla Divya (4)</b>	<b>Veda Druthi S (10)</b>		
	<b>Y Manusha (5)</b>			
	<b>N Hemanth (7)</b>			

### 5.3.3 Does the institution provide incentives for students who participate in national / regional levels in sports and cultural events?

Yes, Regular coaching will be organized for students who participate at various level sports and cultural events. Attendance will be given to students who participate in sports and cultural events

### 5.3.4 How does the institution involve and encourage its students to publish materials like catalogues, wall magazines, college magazine, and other material? List the major publications/ materials brought out by the students during the last four academic sessions.

Yes. The students release a souvenir every year with articles of the students of all years & faculty of the institution. The souvenir is released in the name of “MEDVOICE” every year.

#### Editorial board Of Medvoice:

Dr.Veerasingam, Dr.Mehaboob, Dr.Sudha, Dr.Sambasiva reddy, Dr.Chandrasekhar, Dr.P.sreenivasulu Reddy, Dr.Bheemsen Soren, Dr.B.V.Subramanyam

The institution has monthly magazine “VAIDYA NARAYANAM” which brings out the various important achievements of the institution in all aspects. The monthly magazine is circulated among all the faculty in the campus and all the practitioners outside the campus regarding details of institution achievements and services. The monthly magazine is edited by Mr. Fayaz Ahmed.





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**5.3.5 Does the institution have a Student Council or any other similar body? Give details on its constitution, activities and funding.**

The college has established student's council with appropriate designations. Which encourages students participations in activities, such as college magazines, newsletters, cultural co-curricular, extra-curricular and sports activities.

**5.3.6 Give details of various academic and administrative bodies that have student representatives in them. Also provide details of their activities.**

The college has constituted internal quality assurance cell to which various stake holders are incorporated as members. The cell has developed quality manual incorporating the students to deal with all such quality issues through IQAC, Associated Deans and students as members. Few of the important committees are library advisory committee, research committee, faculty development committee, committee for ICT maintenance, grievances Redressal cell, women empowerment and behavior cell. Anti Ragging Committee, Prevention of Harassment of women and girls Committee.

*Any other information regarding Student Support and Progression which the institution would like to include.*



**CRITERION VI:  
GOVERNANCE AND  
LEADERSHIP**



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## CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

### 6.1 Institutional Vision and Leadership

#### 6.1.1 State the vision and the mission of the institution.

**Our vision:** To excel in value based medical education, healthcare, research and Technology of global standards enriched with quality, contributing to national development.

**Our Mission:**

1. To provide value based, student centric, community oriented, flexible medical education with continuous evaluation.
2. To achieve, sustain and further enhance quality medical education providing access with thrust on equity involving stake holders.
3. To offer ultra modern affordable healthcare, integrating “AYUSH “system with access to rural people in congruence with all National Health Programmes to achieve the goal of “Health for ALL”.
4. To encourage innovative, collaborative basic research to benefit the community and enabling the industry to produce cost effective equipments and drugs.
5. To stimulate invention of indigenous technology and to promote technology transfer and optimal utilization of available contemporary technology for teaching, training, healthcare and research.

**6.1.2 Does the mission statement define the institution’s distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, the institution’s tradition and value orientations, its vision for the future, etc.?**

Yes

#### 6.1.3 How is the leadership involved in

- \* **developing E-Governance** strategies for the institution- The college has team of software and hardware engineers for developing e-governance strategies for the institution
- \* **ensuring the organization’s management system development, implementation and continuous improvement-** the college has well designed management system, development and implement system and monitors continuous improvement with varied committees and Associate Deans continuously working for improvement in critical parameters that effect quality of the product-health care education and advanced services and research
- \* **Interacting with its stakeholders** – The well knit IQAC has incorporated interaction with varied stake holders in with processes. Patients provide feedback on services, student



provide feedbacks ,alumni, parents and other stake holders also provide appropriate feedbacks

- \* **Reinforcing a culture of excellence** – Though IQAC monitors the varied and critical quality parameters of academics administration, human resources and examination for its
- \* **Identifying organizational needs and striving to fulfill them-** The leadership identifies the strengths, weakness, opportunities and challenges of every constituents of the system implement in the strategies, draws plan of action for ensuing five years and implements.

#### **6.1.4 Were any of the top leadership positions of the institution vacant for more than a year? If so, state the reasons.**

No, none of the top positions of the institution were vacant.

#### **6.1.5 Does the institution ensure that all positions in its various statutory bodies are filled and meetings conducted regularly?**

The institution ensures that all the position to the secretarial body are filled and meetings conducted regularly

#### **6.1.6 Does the institution promote a culture of participative management? If yes, indicate the levels of participative management.**

The institution strongly promotes the culture of participative management. The institution has constituted varied committees for key parameters of quality of education, service and research. Most of the committees have appropriate and different stake holders as members, all the committees operate at appropriate levels of decision making, giving inputs for maintenance of quality. The stake holders are represented in all committees.

#### **6.1.7 Give details of the academic and administrative leadership provided by the University to its affiliated colleges / constituent units and the support and encouragement given to them to become autonomous.**

The institution in the health care education, service and research system recognized by apex regulatory bodies and affiliated to Dr.N.T.R University of Health Sciences, hence, this question is not applicable. However the institute has provided academic and administrative, accountability, empowerment and autonomy to its respective heads of the departments and infrastructure unit heads.



# NARAYANA MEDICAL COLLEGE

## 6.1.8 Have any provisions been incorporated / introduced in the University Act and Statutes to provide for conferment of degrees by autonomous colleges?

Not applicable as the institute is an affiliated college.

## 6.1.9 How does the institution groom leadership at various levels? Give details.

The institution strongly grooms the leadership at all various levels of human resource, students, teachers, alumni, parents are included in internal quality assurance cell

## 6.1.10 Has the institution evolved a knowledge management strategy which encompasses the following aspects such as access to

\* **Information Technology**- The college has provided strong information technology wing with very good infrastructure, equipments, trained manpower and this facility is accessible to the entire human resource

\* **National Knowledge Network (NKN)**-

\* **Data Bank,**

\* **Other open access resources along with effective intranet facilities with unrestricted access to learners.**

If yes, give details.

## 6.1.11 How are the following values reflected in the functioning of the institution?

\* **Contributing to National development** –

\* The institute has trained and contributed **1380** MBBS graduates

\* **588** Post graduates

\* 59 super specialty doctors to the community

\* and **957** are studying under graduation.

\* **128** interneers are working.

\* **342** are studying post graduation.

\* **40** super specialty student doctors are under training.

\* **11,31,500** patients are served patients of varied illnesses / per year and

\* Contributed 793 publications, it is serving the community through various innovative extension services and government schemes.

**Fostering global competencies among students** – The national apex and regulatory body for health affairs Medical Council of India rigorously implements global competencies

\* Among the learners by continuous improvement of the curriculum of health care system.

The curriculum has clearly defined topics as must know, desirable to know

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\* **Inculcating a sound value system among students-** The institute inculcates the value system of serving the poor in villages through their posting during internship, the value systems are well implemented by Medical Council of India through professional ethics. Further value systems are; citizenship role, women empowerment, healthy living, yoga for good health and many more are practiced and implemented by the college.

\* **Promoting use of technology-** The policy of the institution in availing use of technology is intensively incorporating high end information, communication, transmission for content delivery of education and self directed learning through internet browsing and such other activities. The college conducts training for faculties in working knowledge of computers and internet surfing. High end computers and software are used for health care services wherever relevant and such facilities are available. Good number of faculties are deputed to national and international conferences and workshops to know the recent developments of their profession and implement such technology for their departments, students and patients welfare

\* **Quest for excellence-** The base line principle and vision of the institution is excellence in health care education service for patients and research for global community continuous improvement in knowledge development.

**6.1.12 Has the institution been indicted / given any adverse reports by National Regulatory bodies? If so, provide details.**

No

**6.1.13 What are the projected budgetary provisions towards teaching, health care services, research, faculty development, etc.?**

Projected budget towards teaching is 48cr services is 58 cr, research is 5 cr, faculty development 2 cr

## **6.2 Strategy Development and Deployment**

The IQAC during generating perspective plan document has drawn, developed and deployed the strategies has enhanced the strengths, nullify the weakness, never miss an opportunity, get hold on with the challenges. These strategies are well applied to all constituent processes of the institution.

**6.2.1 Does the institution have a prospective plan for development? If yes, what aspects of the following are considered in the development of policies and strategies?**



# NARAYANA MEDICAL COLLEGE

- 
- \* **Vision and mission-** The mission components and the institutional performance in that direction of mission is evaluated. The alignment of vision mission and program objectives are monitored on continuous basis and vision and missions are updated.
  - \* **Teaching and learning** – In teaching learning and evaluation students enrolment, catering to diverse needs, the teaching learning process, teacher quality reforms in evaluation, graduate attributes and learning outcomes are incorporated in perceptive plan for ensuing five years
  - \* **Research and development** – Research promotion, research facilities, resource mobilization for research and research publications are considered and planning the research and development also collaboration for research and consultancy is considered.
  - \* **Community engagement / outreach activities** – The point considered for outreach activities for health care education into community, rural health services, environmental concerns and citizenship role.
  - \* **Human resource planning and development** – Human resource planning is in proportion to mission components of programs, services and research. The institution in addition to complying for the regulatory authorities, such need based requirement of human resource is well planned in the perspective planned document. The development of human resource is practiced for continuous basis for skill up gradation that used of new technologies and such other initiatives.
  - \* **Industry interaction** – The prospective plan documents considered community institution interaction and industry institution interaction for patient welfare and technology up gradation.
  - \* **Internationalization** - The document also considers internationalisation of research consultancy and collaboration for academic excellence

## 6.2.2 Describe the institution's internal organizational structure (preferably through an organogram) and decision making processes and their effectiveness.

- \* **Is there a system for auditing health care quality and patient safety? If yes, describe.**
  - The organization structure is depicted. The institution practices the health care quality to the system of feedback from the stake holders. The college has designed and developed patient feedback and implemented in all departments. Patient safety measure are initiated



\* **How often are these review meetings held with the administrative staff?** – The committee for feedback meets once in three months, analyzes the feedbacks on four point Likert scale and initiates action on the areas for improvement identified.

### **6.2.3 Does the institution conduct regular meetings of its various Authorities and Statutory bodies? Provide details.**

The statutory authorities of academic, administration, human resources and examinations review the varied committees constituted under them minimum twice in each semester. Some of important committees are meetings of IQAC, Library advisory committee, research committee, grievances' redressal committee, committee for extension activities, faculty development activities.

### **6.2.4 Does the institution have a formal policy to ensure quality? How is it designed, driven, deployed and reviewed?**

The college has drawn and displayed quality policy for the institution. These are developed by inside and out approach interacting with the concern stake holders. The quality policy is displayed in such places where it can be seen by many stake holders in prominent places

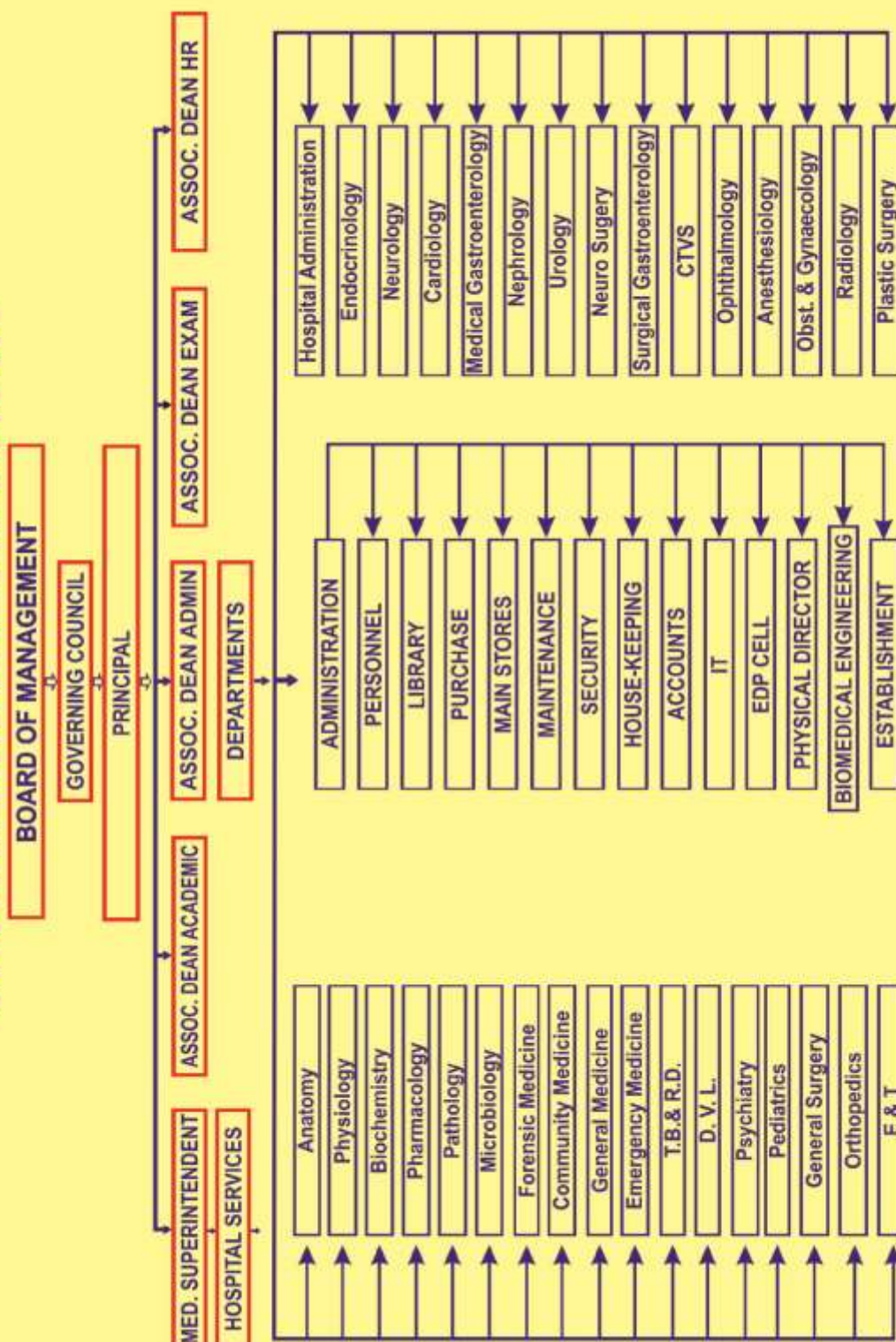
### **6.2.5 Does the institution encourage its academic departments to function independently and autonomously and how does it ensure accountability?**

The departments have accountability in academic administrative, human resource and examinations. These accountabilities are achieved by giving appropriate empowerment and autonomy to the concerned heads of the departments are official. The college has generated quality manual that clearly describes on the above with key result areas for performance identified for each committee





## ORGANIZATIONAL STRUCTURE



**Narayana Medical College & Hospital**  
Chinthareddypalem, Nellore - 524003, A. P. India



**6.2.6 During the last four years, have there been any instances of court cases filed by and / or against the institution? What were the critical issues and verdicts of the courts on these issues?**

Total Six cases of Medical Negligence, Four were disposed, Verdict Pending in two.

**6.2.7 How does the institution ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder-relationship?**

The college has clear mechanism to address the grievances of varied stake holders. The college has constituted grievances redressal committee, that meets four times in a year to identify the grievances of students, parents, faculties, alumina and patients. Following is the list of grievances heard and resolved

**6.2.8 Does the institution have a mechanism for analyzing student feedback on institutional performance? If yes, what was the institutional response?**

The college has the systematic mechanism to measure and analyze institutional performance in education, service and research, the college feedback on campus facilities, library facilities and such similar feedbacks are collected, in all the above areas for improvement for identified and actions initiated

**6.2.9 Does the institution conduct performance audit of the various departments?**

The departments performed assessment is done through the monthly departmental performance assessment is done through questioners assessment on 4 point Likart scale on key aspect of the system

**6.2.10 What mechanisms have been evolved by the institution to identify the developmental needs of its affiliated / constituent institutions?**

The departmental development needs are identified monthly performance assessments, SWOC, and initiating actions to draw plan of action

**6.2.11 Does the institution and hospital have their own updated websites? If so, is the information regarding faculty and their areas of specialization, days of availability, timings, and consultation charges available on the website?**

The institution hospital has their own website, the names of the faculty designation and their specialization, their availability and consultation charges are described on the website



## **6.2.12 What are the feedback mechanisms and documentations to evaluate the outcomes of these exercises?**

The comprehensive system of feedback analysis and documentation is in place

## **6.3 Faculty Empowerment Strategies**

### **6.3.1 What efforts have been made to enhance the professional development of teaching and non-teaching staff? What is the impact of continuing Professional Development Programs in enhancing the competencies of the University faculty?**

The college has constituted a committee on professional development of both teaching and non teaching; varied departments have conducted continuing medical education programs of the faculties and general practitioners

### **6.3.2 What is the outcome of the review of various appraisal methods used by the institution? List the important decisions.**

The college collects the varied feedbacks and appraisal from different sections of the education under IQAC. The important decisions taken are pertaining to faculty development programs, research facilities, teacher quality and similar other matter

### **6.3.3 What are the welfare schemes available for teaching and non-teaching staff? What percentage of staff have benefitted from these schemes in the last four years? Give details.**

The faculties are given salary as per the regulatory norms, they are provided with provident fund, encashment of earned leave, insurance, leave festival advance, loan facilities for the faculty, health care facilities for subsidiary, difference in giving seeds for the children of the staff in the management humanities, colleges and schools. Women get paid maternity leave sanction for four months. There is a committee for welfare of the faculty which assesses implements, evaluates the process of faculty welfare and non teaching staff welfare under associate dean HR by the IQAC

### **6.3.4 What are the measures taken by the institution for attracting and retaining eminent faculty?**

The institution as a policy of attracting and retaining eminent faculty, the faculty welfare committee under Associate Dean – human resource implements the policy for attracting eminent human resource, the measures taken are bilateral description, understanding the needs and wants appropriate to his designation providing an ambience of excellence, in



research, campus facilities, autonomy and empowerment and financial benefits seats for their children in the schools and humanities college and subsidized fees.

**6.3.5 Has the institution conducted a gender audit during the last four years? If yes, mention a few salient findings.**

Students enrollment and maintaining committee does the general audit and whether categories of students audit after total admission process is completed, the audit category-wise is done as male, female, specially abled, same state and other state based on the analysis outcome. Necessary service is provided, such as bridge courses.

**6.3.6 Does the institution conduct any gender sensitization programs for its faculty?**

The institution has constituted appropriate committee for general sensitization and these committees on regular basis provides such programs to the stakeholders

**6.3.7 How does the institution train its support staff in better communication skills with patients?**

As a part of personality development the institution trains its support staff in communication skills, customer satisfaction, patient care, patient rights and such other related issues

**6.3.8 Whether the research interests of teaching faculty are displayed in the respective departments?**

The research interests and thrust areas in research of the faculty of the department are displayed in all the departments.

**6.3.9 Do faculty members mentor junior faculty and students?**

Routinely the senior faculties mentor the junior faculty as well students in the matters of education service and research in the organizational vision, mission goals and attitudes.

**6.3.10 Does the institution offer incentives for faculty empowerment?**

The institution has constituted a committee for faculty development and empowerment which deals with the incentives for faculty for research recognition, seed money for such and incentives for distinguished achievements, in seed money for guiding research



## **6.4 Financial Management and Resource Mobilization**

### **6.4.1 What is the institutional mechanism available to monitor the effective and efficient use of financial resources?**

The college has constituted finance committee which effectively and efficiently manage the financial resources. The management had deployed qualified Chartered Accountants in respective positions to monitor and manage the finance and accounts of the group. The college has regular monthly MIS which will provide the key information to the management for financial decisions. Also we have in house ERP to manage the GL, Payroll and inventory modules to ease accounting process.

### **6.4.2 Does the institution have a mechanism for internal and external audit? Give details.**

The college has mechanism for both internal and external audit. The internal audit is performed by qualified Accountants and they submit the internal audit reports once in a quarter. The Statutory auditing is performed by qualified Chartered Accountants .the statutory audit is done once in a year.

### **6.4.3 Are the institution's accounts audited regularly? Have there been any audit objections, if so, how were they addressed?**

Apart from internal audit performed by M/s Varun & Associates, we conduct internal audit with our own team on every fortnight and address the issues if any. In terms of internal report published by M/s Varun & Associates, we will review internally with the management and rectify the same for any audit observations and publish the final status report.

### **6.4.4 Provide the audited statement of accounts with details of expenses for academic, research and administrative activities of the last four years.**

Even though Narayana General College and Hospital is a separate unit, but during the finalization time this will be consolidated with Society. Hence we are enclosing the audited financial statements of the Society for reference.

The details of expenses for academic, research and administrative activities of the institution for last four years are enclosed



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**6.4.5 Narrate the efforts taken by the institution for resource mobilization.**

We have internal HR team for mobilization of the resources for the need for departmental requirements. Apart from that we will utilize the external HR agency services for any key position requirements.

**6.4.6 Is there any provision for the institution to create a Corpus Fund? If yes, give details.**

Yes. There is provision for provision for the institution to create a Corpus Fund, and it is under process.





# NARAYANA MEDICAL COLLEGE

NARAYANA MEDICAL COLLEGE  
(Run by Narayana Educational Society, Nellore)  
Chinthareddypalem :: NELLORE

Balance Sheet as on 31.03.2013

Liabilities	Amount	Assets	Amount
<b>Capital Account:</b> Narayana Educational Society A/c	217,97,04,131.94	<b>Fixed Assets</b>	225,49,71,745.07
<b>Current Liabilities:</b>		<b>Current Assets:</b>	
Caution Deposit A/c	1,89,56,919.00	Deposits	89,79,532.00
Stipend A/c	1,18,75,550.00	General Advance	3,90,96,758.15
Outstanding Expenses A/c	6,85,28,579.82	Tuition Fee Receivable	1,10,01,200.00
Other Liabilities A/c	18,82,13,748.78	Other Assets	16,67,32,611.07
Bank Accounts	1,52,97,336.69	Cash in Hand	17,94,419.94
	<u>248,25,78,266.23</u>		<u>248,25,78,266.23</u>



*[Signature]*



*[Signature]*

# NARAYANA MEDICAL COLLEGE



**NARAYANA MEDICAL COLLEGE**  
(Run by Narayana Educational Society, Nellore)  
Chinthareddypalem : NELLORE (Dt.)

01.04.2010 To 31.03.2011  
Asst. Year : 2011-2012

Status : A.O.P  
PAN : AAATN1672R

**Balance Sheet as on 31.03.2011**

Liabilities	Amount	Assets	Amount
<b>Capital Account:</b>		<b>Fixed Assets (as per Schedule - B)</b>	
Narayana Educational Society A/c	128,14,32,583.10		130,99,12,412.17
<b>Current Liabilities:</b>		<b>Current Assets:</b>	
Stipend A/c	1,08,56,950.00	Deposits	51,03,012.00
Caution Deposit A/c	1,45,04,109.00	General Advance A/c	1,12,65,219.84
Outstanding Expenses A/c	3,02,75,239.25	Fee Collection Receivable A/c	71,35,700.00
Other Liabilities A/c	13,92,14,788.04	Other Assets A/c	13,25,76,532.07
		<b>Bank Accounts (as per Schedule - D)</b>	83,98,255.86
		<b>Cash in hand</b>	18,92,537.45
	<b>147,62,83,669.39</b>		<b>147,62,83,669.39</b>



*[Signature]*





**NARAYANA MEDICAL COLLEGE**  
(Run by Narayana Educational Society, Nellore)  
Chinthareddypalem : NELLORE

Balance Sheet as on 31.03.2012

Liabilities	Amount	Assets	Amount
<b>Capital Accounts:</b>		<b>Fixed Assets</b>	
Narayana Educational Society A/c	162,28,60,271.00		164,48,83,243.62
<b>Current Liabilities:</b>		<b>Current Assets:</b>	
Caution Deposit A/c	1,66,29,340.00	Deposits	68,49,012.00
Stipend A/c	1,17,16,000.00	General Advance	2,29,41,238.77
Outstanding Expenses A/c	9,65,52,277.71	Tuition Fee Receivable	20,55,700.00
Other Liabilities A/c	10,84,76,326.80	Other Assets	14,75,33,194.00
		Bank Accounts	1,21,88,308.62
		Cash in Hand	195,83,518.30
			<u>185,60,34,215.51</u>
	<u>185,60,34,215.51</u>		





<b>NARAYANA MEDICAL COLLEGE</b> (Run by Narayana Educational Society, Nellore) Chinthareddypalem : - NELLORE (Dt.)			
Balance Sheet as on 31.03.2014			
Liabilities	Amount	Assets	Amount
<b>Capital Account:</b>		<b>Fixed Assets - Schedule-F</b>	
Narayana Educational Society A/C	2,71,02,51,700.51		2,71,02,51,288.34
<b>Current Liabilities:</b>		<b>Current Assets :</b>	
Cautions Deposit (Prof.) A/C	201,85,919.00	Deposits:	1,11,00,755.00
Secured A/C	169,50,550.00	General Advances	5,50,23,458.30
Outstanding Expense	7,44,83,616.77	Tuition Fee receivable A/C	1,27,29,000.00
Other Liabilities	31,77,04,431.48	Other Assets	29,03,77,424.04
Bank Accounts	17,33,031.99	Cash in hand :	16,52,324.17
	<b>3,16,13,12,249.85</b>		<b>3,16,13,12,249.85</b>



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# NARAYANA MEDICAL COLLEGE

NARAYANA MEDICAL COLLEGE  
(Run by Narayana Educational Society, Nellore)  
Chinthareddypalem : NELLORE

## Income & Expenditure Statement for the year ended on 31.03.2013

Expenditure	Amount	Income	Amount
To AMC A/c	59,47,708.00	By College Fee A/c	30,26,98,514.00
To Affiliation Fee A/c	31,15,000.00	By Hostel Fee A/c	6,17,59,047.00
To Awareness & Campaigning A/c	21,22,838.00	By Income from Patients A/c	37,84,99,285.00
To Bank Charges A/c	1,25,128.02	By Medicine Sales A/c	22,87,43,850.61
To Building Maintenance A/c	1,13,56,116.20	By Other Receipts (Canteen) A/c	2,32,29,878.50
To Building Rents A/c	20,79,257.50	By Interest A/c	3,88,667.00
To Computer Maintenance A/c	13,07,333.75	By Miscellaneous Income A/c	75,33,024.14
To Consultancy Charges A/c	3,51,782.00	By Other Income A/c	10,69,809.02
To Consumables A/c	8,47,74,948.59		
To Depreciation A/c	23,62,20,824.00	By Excess of Exp. over Income	36,84,20,305.58
To Digital Library Fee A/c	2,50,000.00		
To Electrical Maintenance A/c	50,04,490.81		
To Electricity Charges A/c	4,88,55,852.00		
To Exam Expenses A/c	15,79,024.00		
To Functions & Celebrations A/c	7,25,793.00		
To Garden Maintenance A/c	3,13,924.70		
To General Expenditure A/c	14,51,846.00		
To Generator Maintenance A/c	17,04,776.00		
To Guest Lecture Charges A/c	7,80,300.00		
To Hospital Maintenance A/c	14,08,80,408.33		
To Inspection Expenses A/c	1,99,179.00		
To Inspection Fee A/c	29,70,056.00		
To Insurance Charges A/c	7,80,450.00		
To Internet Charges A/c	12,09,632.00		
To Lab Maintenance A/c	4,00,550.00		
To Legal Charges	7,91,400.00		
To Medicines Purchases A/c	12,73,13,386.17		
To Mess Purchases A/c	3,84,98,151.77		
To Miscellaneous Expenses A/c	29,68,936.04		
To Paper & Periodicals A/c	29,335.00		
To Paper & Stationary A/c	31,80,699.05		
To Printing & Typing A/c	1,12,893.00		
To Postage & Telegram A/c	1,94,847.00		
To Professional Charges A/c	27,73,332.00		
To Provident Fund A/c	44,27,821.00		
To Repairs & Maintenance A/c	17,53,106.88		
To Salaries A/c	33,54,89,986.00		
To Sanitary Expenses A/c	9,63,138.16		
To Security Service Charges A/c	45,44,840.00		
To Seminars, Meetings & Celebration	23,24,921.00		
To Telephone Charges A/c	11,60,866.30		
To Transport Charges A/c	64,31,257.00		
To Travelling Expenses A/c	45,53,246.00		
To Vehicle Maintenance A/c	60,05,286.58		
To Finance Cost A/c	27,63,00,914.00		
	<b>137,23,22,380.85</b>		<b>137,23,22,380.85</b>



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# NARAYANA MEDICAL COLLEGE



## NARAYANA MEDICAL COLLEGE (Run by Narayana Educational Society, Nellore) Narayana Avenue : : NELLORE

Income & Expenditure Account for the year ended on 31.03.2014

Expenditure	Amount	Income	Amount
To Awareness & Campaigning A/c	55,64,225.16	By Fee Collection A/c	
To Affiliation Fee A/c	44,15,000.00	Mess Fee	3,19,82,642.00
To AFRC Processing Fee A/c	60,000.00	Tuition Fee	31,12,46,487.00
To Annual Maintenance Charges A/c	1,15,80,144.00	Other Fee	3,91,49,051.00
To Audit Fees A/c	9,12,363.00		38,23,78,180.00
To Bank Charges A/c	1,35,831.80	Less: Fee Cancellation	0.00
To Building Maintenance A/c	67,79,758.87		38,23,78,180.00
To Building Rent A/c	16,32,000.00		
To Campus Maintenance A/c	9,18,278.00		
To Computer Maintenance A/c	17,85,424.30		
To Consultancy Charges A/c	3,08,000.00	By Interest A/c	7,01,166.00
To Consumables A/c	12,02,64,958.96	By Miscellaneous Income A/c	54,46,165.93
To Depreciation A/c	30,69,63,882.00	By Other Income A/c	41,93,069.00
To Digital Library Fee A/c A/c	2,50,000.00	By Receipts (Hospital)	48,13,40,652.12
To Electrical Maintenance A/c	30,06,697.58	By Other Receipt (Canteen)	41,64,724.70
To Electricity Charges A/c	6,01,74,708.00	By Medicine Sales A/c	22,62,12,189.33
To ESI A/c	17,00,272.85		
To Exam Expenses A/c	12,41,986.00		
To Functions & Celebrations A/c	5,22,581.00	By Excess of Exp. Over Income A/C	64,23,75,923.79
To Garden Maintenance A/c	6,51,258.00		
To General Expenditure A/c	4,70,21,536.04		
To Generator Maintenance A/c	58,38,743.18		
To Guest Lecture Charges A/c	8,91,150.00		
To Hospital Maintenance A/c	15,87,70,041.62		
To Inspection Expenses A/c	1,06,755.00		
To Inspection Fee A/c	3,00,000.00		
To Insurance A/c	2,70,884.00		
To Lab Maintenance A/c	46,238.00		
To Legal Expenses A/c	1,50,000.00		
To Medicines Purchases A/c	11,33,86,154.76		
To Mess Maintenance A/c	2,80,56,297.52		
To Miscellaneous Expenses A/c	63,39,911.21		
To Paper & Periodicals A/c	32,358.00		
To Paper & Stationary A/c	46,11,269.77		
To Postage & Telegram A/c	1,90,925.00		
To Printing & Typing A/c	2,57,904.00		
To Professional Fee A/c	54,67,841.00		
To Provident Fund A/c	47,15,540.00		
To Repairs & Maintenance A/c	27,43,202.25		
To Salaries A/c	47,33,40,763.48		
To Sanitary Expenses A/c	7,88,078.29		
To Security Service Charges A/c	50,28,564.00		
To Seminar & Celebrations A/c	11,87,334.00		
To Telephone Charges A/c	22,46,762.08		
To Transport Charges A/c	65,16,148.80		
To Travelling Expenses A/c	53,11,242.00		
To Vehicle Maintenance A/c	1,05,45,452.15		
To Finance Cost A/c	33,49,83,605.00		
	1,74,78,12,070.87		1,74,78,12,070.87





# NARAYANA MEDICAL COLLEGE



## NARAYANA MEDICAL COLLEGE (Run by Narayana Educational Society, Nellore) Chinthareddypalem : NELLORE (Dt.)

01.04.2010 To 31.03.2011  
Asst. Year : 2011-2012

Status : A O P  
PAN : AAATN1672R

### Income & Expenditure Account for the year ended on 31.03.2011

Expenditure	Amount	Income	Amount
To AMC A/c	57,94,007.00		
To Awareness & Campaigning A/c	45,41,472.00	By Fee Collection A/c	
To Affiliation Fee A/c	17,05,000.00	Mess Fee	6,00,20,225.00
To Bank Charges A/c	1,92,340.29	Tuition Fee	20,87,74,138.00
To Building Maintenance A/c	1,32,22,662.48		<b>26,87,94,363.00</b>
To Building Rents A/c	34,11,550.00		
To Computer Maintenance A/c	30,51,769.05	By Other Receipts (Canteen) A/c	2,57,58,156.80
To Consumables A/c	8,73,96,669.58	By Miscellaneous Income A/c	47,80,813.40
To Consultancy Charges A/c	1,02,500.00	By Other Receipts (Hospital) A/c	56,61,18,155.45
To Depreciation A/c	14,31,52,536.00	By Other Income A/c	9,09,213.00
To Electrical Maintenance A/c	48,37,338.75		
To Electricity Charges A/c	2,69,13,596.00		
To Exam Expenses A/c	7,26,109.00	To Excess of Income Over Exp.	1,92,47,471.25
To Functions & Celebrations A/c	1,79,751.00		
To General Expenditure A/c	18,00,650.75		
To Guest Lecture Charges A/c	8,31,850.00		
To Hospital Maintenance A/c	12,04,67,095.89		
To Inspection Expenses A/c	2,40,993.00		
To Inspection Fee A/c	53,95,000.00		
To Lab Maintenance A/c	3,27,245.00		
To Legal Expenses	8,30,800.00		
To Mess Maintenance	3,10,53,381.47		
To Miscellaneous Expenses A/c	26,85,950.00		
To Paper & Periodicals	21,033.00		
To Paper & Stationary	31,08,218.13		
To Postage & Telegram	1,74,652.00		
To Printing & Typing	1,41,535.00		
To Professional Fee A/c	23,03,888.00		
To Provident Fund A/c	44,58,120.00		
To Repairs & Maintenance A/c	15,85,373.77		
To Salaries A/c	22,02,99,096.60		
To Sanitary Expenses A/c	97,130.00		
To Security Service Charges A/c	22,20,357.00		
To Seminar, Meetings & Celebrations A/c	15,23,252.00		
To Telephone Charges A/c	33,97,764.00		
To Transport Charges	21,55,356.00		
To Travelling Expenses A/c	53,32,551.00		
To Vehicle Maintenance A/c	89,77,574.00		
To Finance Cost A/c	17,09,52,005.14		
	<b>88,56,08,172.90</b>		<b>88,56,08,172.90</b>



# NARAYANA MEDICAL COLLEGE



NARAYANA MEDICAL COLLEGE  
(Run by Narayana Educational Society, Nellore)  
Chinthareddypalem :: NELLORE

Income & Expenditure Statement for the year ended on 31.03.2012

Expenditure	Amount	Income	Amount
To AMC A/c	77,91,304.02	By Fee Collection A/c	23,88,89,459.00
To Affiliation Fee A/c	29,40,000.00		
To Awareness & Campaining A/c	29,14,466.00	By Other Receipts (Hospital) A/c	60,92,16,795.71
To Bank Charges A/c	1,79,800.97		
To Building Maintenance A/c	77,68,925.67	By Other Income A/c	5,52,19,480.43
To Building Rents A/c	24,69,620.00		
To Computer Maintenance A/c	19,16,908.21		
To Consumables A/c	7,93,67,731.56	By Excess of Exp. over Income	22,75,27,487.75
To Depreciation A/c	18,10,16,714.00		
To Electrical Maintenance A/c	40,05,375.23		
To Electricity Charges A/c	3,07,23,568.00		
To Exam Expenses A/c	9,75,395.00		
To Garden Maintenance A/c	54,170.00		
To Generator Expenses A/c	90,711.00		
To Guest Lecture Charges A/c	7,36,878.00		
To Inspection Fee A/c	21,55,000.00		
To Insurance Charges A/c	7,47,451.00		
To Lab Maintenance A/c	1,69,186.00		
To Legal Charges	67,200.00		
To Mess Purchases A/c	3,35,63,518.09		
To Paper & Stationary A/c	28,91,511.00		
To Patient Drugs A/c	14,02,37,713.52		
To Pharmacy Purchas A/c	11,40,36,539.00		
To Postage & Telegram A/c	1,47,877.00		
To Professional Charges A/c	43,65,848.00		
To Repairs & Maintenance A/c	15,22,930.90		
To Salaries A/c	25,33,57,528.00		
To Security Service Charges A/c	28,72,490.00		
To Seminars, Meetings & Celebration	20,87,099.50		
To Telephone Charges A/c	32,37,552.73		
To Travelling Expenses A/c	64,50,306.02		
To Vehicle Maintenance A/c	72,53,753.00		
To Other Expenses A/c	113,90,991.47		
To Finance Cost A/c	22,13,47,160.00		
	<b>113,08,53,222.89</b>		<b>113,08,53,222.89</b>

  
Principal



  
Treasurer



## **6.4.7 What are the free / subsidized services provided to the patients in the hospital?**

**The list of the free services provided of the college and subsidize the resources of the college**

The free and subsidized treatment details are displayed in prominent places

## **6.4.8 Does the institutions receive fund from philanthropic organizations / individuals towards patient care? If yes, give details.**

No

## **6.4.9 Do patients from other states / abroad come for treatment, reflecting the unique quality health care provided by the institution?**

The Institution is unique and that provides advanced health care, education, services and research. Students do come from outside the state and country. Similarly, patients also come from regional and other parts of the state.

## **6.5 Internal Quality Assurance System**

### **6.5.1 Does the institution conduct regular academic and administrative audits? If yes, give details.**

The institution has constituted Internal Quality Assurance Cell, Associate Dean Academic and Associate Dean Administration regularly monitors the varied key aspects of performance of the system through regular review meeting

### **6.5.2 Based on the recommendations of the Academic Audit, what specific follow up measures have been taken by the institution to improve its academic and administrative performance?**

Based on the academic audit problem based learning, enrichment courses are started in all the departments, mentorship is initiated and the mechanism to deal with slow and advanced learners, improvement library and such similar matters of academic interests are initiated. The administrative performance of the institution assists on regular basis by associate dean administration. Few of the recommendations implemented are high end IT facilities, rigorous anti ragging measures on the campus, up gradation of security facilities and creation of facilities for varied stake holders across the infrastructure

### **6.5.3 Is there a central unit within the institution to review the teaching-learning process in an ongoing manner? Give details of its structure, methodologies of operations and outcome?**



Committee for teaching learning process under directions of the Associate Dean academic reviews the various components of the teaching learning process , the outcome of performance of such committee has created direct impacts on the learning outcome and graduate attributes, faculty development activities, IT facilities, library enrichment and feedback mechanisms

## **6.5.4 How has IQAC contributed to institutionalizing quality assurance strategies and processes?**

The IQAC has contributed the quality assurance of mission statements namely, education service and research, IQAC through its in depth analysis system provides autonomy, accountability and empowerment to the officials to monitor the quality parameters to system

## **6.5.5 How many decisions of the IQAC have been placed before the statutory authorities of the institution for implementation?**

Many decisions of infrastructure up gradation of physical facilities, library facilities, IT facilities such as promotion and research facility, ISR activities and many such resolutions are placed before the statutory authorities

## **6.5.6 Are external members represented in the IQAC? If so, mention the significant contribution made by such members.**

External members are represented as IQAC who share their experience for institutional quality enhancement

## **6.5.7 Has the IQAC conducted any study on the incremental academic growth of students from disadvantaged sections of society?**

The committee for students enrollment and Associate Dean-Examination rigidly monitor the academic growth of students from disadvantaged section students of the society including category wise incremental academic growth

## **6.5.8 Are there effective mechanisms to conduct regular clinical audit of the teaching hospital? Give details.**

The institution has implemented an exhaustive mechanism of feedback which deals with almost every quality parameter. The regular clinic audit is conducted by feedback of stakeholders and analyzed.





## 6.5.9 Has the institution or hospital been accredited by any other national / international body?

The institution is under certification by international standard organization

## 6.5.10 Does the hospital have institutional and individual insurance schemes to cover indemnity claims?

Narayana Medical College & Hospital maintain a separate Insurance Office which takes care of serving the patients having Health Insurance.

The office is manned by efficient and experienced people who have good knowledge about the processes & nuances involved in the Cashless Hospitalization and Reimbursement Mechanism.

The staff guide the patient in every aspect of **Cashless** hospitalization, its benefits, its shortcomings with respect to the particular condition and help him choose the best of them.

The college is the forerunners of Healthcare in this part of the State, and is empanelled with all the Third Party Administrators (TPA) and Insurance Companies. So, maximum no. of patients can avail the benefit of Health Insurance.

The college is the empanelled with the below list of Govt. Organizations...

### ❖ EHS

- Serving approximately 50 cases / month, The hospital has touched the lives of a thousand patients under this scheme. This scheme basically covers all the State Govt employees including the pensioners.

### ❖ Dr. NTR Vaidyaseva

- A State Govt. run health scheme for poor and needy, this scheme won many applauses and laurels from across the country. Our hospital is considered as one of the best destinations for the eligible patients. The college serves an average of 600 patients per month under this scheme since the year of its launch (2007). So far in the past 8 years, the hospital served around 57,000 patients under this scheme.

### ❖ Aarogya Bhadratha (A.P. State Police)

- This scheme is exclusive for the employees of State Police department. The hospital has served to approximately 200 -250 patients from the day of empanelment in the year 2009.

### ❖ Aarogya Sahayatha (Prohibition & Excise)

- Scheme exclusive for the employees of Prohibition & Excise department of State Govt., The hospital has served 15 patients under this scheme.



## ❖ BSNL

- This health scheme is for the employees of BSNL (Bharat Sanchar Nigam Limited) and no hospital in Nellore has this empanelment except our facility. Currently the renewal of MOU is under process.

## ❖ ESI

- The employees of both Government & Private organizations whose monthly salary is below 15000/- are eligible under this scheme. The hospital has served an approximate number of 150-200 cases since 2009.

## ❖ SHAR

- This health scheme is exclusive for the employees and dependents of Satish Dhawan Space Centre – Sriharikota Range. The hospital has close to 90 employees under this unique scheme.

## ❖ APSPDCL & AP TRANSCO, AP GENCO & EPSPDCL

- These power distribution companies have signed a MOU with our hospital for In Patient Services for their employees. The hospital has served more than 250 patients under this scheme from 2009.

## ❖ APSRTC

- This cashless hospitalization scheme is exclusive for the employees of APSRTC (Andhra Pradesh Road Transport Corporation). The hospital has served to more than 250 patients under this exclusive scheme.

## ❖ DBCS

- A Govt. initiative for controlling blindness at district level (District Blindness Control Society), The hospital has bettered the lives of more than 3000 people under this scheme and is offered free of cost for the needy.

## ❖ Powergrid Corporation

- The MOU for offering In Patient services to the employees of Power grid corporation at our medical facility is under renewal now. The hospital has served a total of 7 cases under this scheme.

## **Corporate Linkages for services:**

The hospital has splendid infrastructure backed by well trained and experienced medical and nursing fraternity, many corporates show interest in seeking our services in the health and well being of their employees and dependents.



Currently the hospital has an understanding with the below corporates to deliver ANNUAL HEALTH CHECKUP to their employees...Power grid Corporation, Pest Control Pvt. Ltd, APL, Marine, LIC, LUVIS, L&T, BHEL.

Usually the ANNUAL HEALTH PACKAGES are awarded to hospitals which offer the best price for a defined list of investigations. The corporates also consider the quality of service that their employees receive at the hospital in case of need.

So, being associated with such larger corporates in this region shows our commitment to QUALITY HEALTHCARE at affordable cost.

The hospital gets associated with a corporate not only through ANNUAL HEALTH PACKAGES but also, in the form of conducting FREE HEALTH CAMPS, HEALTH AWARENESS TALKS & MOUs for extending customized services at discounted prices etc..

In this line, The hospital has already finalized the calendar of events with Krishnapatnam Port Company Ltd. and its allied companies (11) with total employee strength of ~ 7000.

The events will start rolling from the month of August with the first event scheduled on 05<sup>th</sup> August 2015. This will be a continuous and periodic activity showcasing different specialties of our hospital and its services.

The HEALTH AWARENESS TALKS are also a part of this campaign which really helps the corporate employees to meet the specialist doctor (consultant) and know more about a disease condition or better lifestyle and nutrition habits to lead a healthier and happier life.

The HEALTH TALKS can be delivered on various topics that are relevant to the corporate. For eg., A software company needs a HEALTH TALK on topics like..Ergonomics – Better posture, Simple Headache or Migraine, Healthy Diet, A to Z of Healthy Heart, Meditation & Yoga. Whereas a manufacturing unit requires on..Healthy food habits & Hygiene, Repetitive Stress Injury, Liver diseases, Shift Working & Physical fitness options, Spondylitis & Nerve injuries. List of companies that the hospital is working on similar terms: Thermal Power Tech Corporation India Ltd., Dodla Dairy, Louis Dreyfus, NCC Power Projects, BHEL, FICCL, Canara Bank etc. The hospital has created an exclusive CORPORATE DESK to guide the patients coming from these companies to offer a privileged service and enhance their satisfaction levels. The desk is managed by a trained person well versed with all relevant information pertaining to these companies.

*Any other information regarding Governance, Leadership and Management which the institution would like to include.*



**CRITERION VII:  
INNOVATIONS AND BEST  
PRACTICES**



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## CRITERION VII: INNOVATIONS AND BEST PRACTICES

### 7.1 Environment Consciousness

#### 7.1.1 Does the institution conduct a Green Audit of its campus?

Yes, the Institution regularly conducts green audit. The campus has full of greeneries around and is environmental friendly.

#### 7.1.2 What are the initiatives taken by the institution to make the campus eco-friendly?

- \* **Energy conservation**
- \* **Use of renewable energy**
- \* **Water harvesting**
- \* **Solar panels**
- \* **Efforts for carbon neutrality**
- \* **Plantation - Botanical or Medicinal significance**
- \* **Bio-hazardous waste management**
- \* **E-waste management**
- \* **Effluent treatment and recycling plant**
- \* **Recognition / certification for environment friendliness**
- \* **Any other (specify)**
- \* **Energy conservation**

1. Planning the buildings such way that allows sufficient lighting minimize electrical lamps
2. Usage of LED bulbs in place of conventional ones
3. Minimizing the use of air conditioners and lifts
4. Replacing the old equipment with new energy saving ones
5. Supervising staff to switch of ACS, lights and fans when and wherever they are not needed
6. Training staff and students about conservation of energy.

- \* **Use of renewable energy**

Necessary awareness to use renewable energy is instituted through guest lecturers as a part of extension activity. Solar energy for lighting the campus has been implemented.

- \* **Water harvesting**

Construction of drains and storage of rainwater, soakage pits are provided



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## \* Solar panels

For street lights it has been implemented.

## \* Efforts for carbon neutrality

1. Campus is no-smoking zone
2. Plantation of trees regularly in and around the campus is in progress
3. Plans and efforts to minimize the usage of cars and two wheelers by the staff and students with in the campus

## Plantation - botanical or medicinal significance

Nursery with medicinal plants is instituted in collaboration with college of pharmacy

## \* Bio-hazardous waste management

Existing as per the guidelines of national health and medical research council the waste is categorized into clinical waste, general waste etc and disposed as per the guidelines  
Institute has waste management strategy and plans and accordingly waste auditing is being done periodically.

## \* E-waste management

1. Recycling and reuse of electronic devices is being done
2. E - waste is disposed as per the regulations of state and central pollution control boards

## \* Effluent treatment and recycling plant

Existing as per standards

## \* Recognition / certification for environment friendliness

Efforts are underway to get the institution an eco-friendly certificate

## \* Any other (specify)

### 7.1.4 How does the institution ensure that robust infection control and radiation safety measures are effectively implemented on campus?

As per the standards of WHO infection control measures are in place and are being regularly monitored by infection control committee and audited periodically.

A radiation safety measure exists as per the standards of Atomic energy (radiation protection) rules, 2004. Monitored by radiation safety committee and audited periodically

### 7.1.4 Has the institution been audited / accredited by any other agency such as NABL, NABH, etc.?



Not Yet

## 7.2 Innovations

**7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the institution.**

### **STUDENT RELATED**

- Zero ragging tolerance in campus.
- Online access to the parents is provided through unique user ID and Password. Parents are apprised of the student attendance and performance through SMS on daily basis. Further, performance sheets are posted once in a month to the parents.
- Weekly evaluation of academic performance of the students.
- Yoga training sessions are conducted for the students.
- Biometric system of monitoring student attendance
- Central Computer Centre and English Training Laboratory are established for bringing computer literacy and to improve communication skills and fluency of English.
- Wall magazine.
- Student Counselor to council the needy students
- Round the clock library and reading room.

### **FACULTY**

- Periodic personality development / stress management.

Every department has computers and all our faculty members are computer literate.

- All data regarding the department are collected and tabulated and available for scrutiny.
- Faculty development programmes are in place for up gradation of surgical skills and for orientation to newer procedures and technologies
- Medical Education Technology training is provided for the faculty both in -house and at other reputed places
- Training in Yoga
- Special leaves and monetary assistance for attending and presenting papers in scientific conferences

### **ACADEMICS**

- Mentor system
- Integrated (horizontal and vertical) teaching



- CME Symposia/Workshops / Quiz programmes are conducted regularly.
- Financial support by the college for hosting Seminars / Conferences / workshops of various professional associations.

## **INSTITUTIONAL**

- Super specialty courses in 8 subjects within 15 years of inception.
- There are few medical institutions in India offering PG course (M.D.) in Hospital Administration and Narayana Medical College is one among them.

## **GOVERNANCE AND LEADERSHIP**

- Decentralized functioning of the Institute through constitution of various committees.
- Faculty is recruited on the basis of merit through national level selection process.
- Incentives to the faculty for research publications, Textbooks and Scientific paper presentations.
- Close circuit TVs are installed at all lecture halls, wards, and library and examination hall. Serves as a measure of surveillance
- Subsidized educational support to the children of faculty and staff at Narayana group of educational institutions
- Hospital on wheels a specially designed ambulance containing life support equipment and staff.

## **COMMUNITY**

- Public awareness programmes are conducted through student rallies on issues like – Ragging, Helmet awareness, Swine flu, AIDS, Tuberculosis, Evils of Tobacco, and Alcohol etc.
- Participating in National programmes like pulse polio , hand washing etc

## **PATIENT RELATED**

- Implementation of National, State health schemes like AROGYASRI as per the norms and to the satisfaction of patients.
- Playing an active role in JEEVANDHAN scheme.
- Introduction of schemes like NARAYANA AROGYAMASTHU for the benefit of needy.
- Free transport for patients from surrounding villages

### **7.3 Best Practices**





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## 7.3.1 Give details of any two best practices that have contributed to better academic and administrative functioning of the institution.

- a). The Institution conducts special classes for the students, in addition to the regular teaching and learning activities.
- b). The Institution conducts weekly evaluation activity. An assessment of the academic progress made by the students is assessed every week, which helps both teachers and the students to understand where they stand.
- c). The Institution organizes student Seminars and Tutorials in addition to the routine classes.
- d). The Institution encourages and send the postgraduates to as many conferences and out-station CME's as possible.
- e). The Institution conducts several common academic activities every year to benefit the students of all colleges on the campus.

### Format for Presentation of Best Practices

#### 1. Title of the Practice

The title should capture the keywords that describe the practice.

#### 2. Objectives of the Practice

What are the objectives / intended outcomes of this “best practice” and what are the underlying principles or concepts of this practice (in about 100 words)

#### Objective of the Practice: To promote academic excellence of the campus

**Intended outcome:** of this “best practice” and what are the underlying principles or concepts of this practice (in about 100 words)

These academic activities help all students of medicine, nursing, dentistry, pharmacy, lab technology and various other technical courses develop a scientific outlook which broadens their horizon. It will give them an insight into the latest developments and other technical aspects. They will develop into academicians as well as professionals or para-professionals or auxiliaries in their respective files.

#### 3. The Context

What were the contextual features or challenging issues that needed to be addressed in designing and implementing this practice (in about 150 words)



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We have to overcome the following hurdles whenever we organize these activities. Informing all people is the first hurdle. It is not easy to spread the message adequately so that people come in large numbers. Quite often the circular are circulated late,( E-mails through Internet) due to which, the faculty and students cannot come unless they make some alternate arrangement to see that routine work goes on uninterrupted. The authorities are to be informed well in advance so that they can give administrative sanctions. The venues like the lecture galleries or auditorium etc., also are not easy to get, because the regular activities should not get disturbed. Whenever Institution invites guest faculty, Institution has to make many adjustments depending upon their availability. Institution always has to invite more number of guests than required, because it is generally not possible for some of them to come, due to various factors totally beyond any body's control.

#### 4. The Practice

**Describe the practice and its uniqueness in the context of India higher education. What were the constraints / limitations, if any, faced (in about 400 words)?**

Time, money and man power are the most important constraints or limitations.

#### 5. Evidence of Success

**Provide evidence of success such as performance against targets and benchmarks, review results. What do these results indicate? Describe in about 200 words.**

Success rate of students certainly is an indicator. The performance of the students as well as faculty improves due to these academic activities. The participation of our faculty as invited speakers, guest lecturers panel discussants indicates the success. The research publications which are enormously published during the past few years is another indicator. Many of our former students have occupied important positions in public and private organizations. Some even went abroad and are pursuing higher education. This also indicates success of our activities.

#### 6. Problems Encountered and Resources Required

**Identify the problems encountered and resources required to implement the practice (in about 150 words).**

Decision to do it at an appropriate time, so that most of the students and faculty benefit from this activity. Usually at least one group of students or faculty is always busy with exams or conferences. This may be taken care of by planning well in advance. Usually we are happy if most, if not all students or faculty participate. Sometimes the financial grants may not



come in time, if the least sanction does not come in time, we could face serious problem of cancelling.

Getting the guest speakers agree to come on the specific time period is another problem. This can be solved by keeping a reserve list of speakers.

## 7. Notes

**Optional. Add any other information that may be relevant for adopting/ implementing the Best Practice in other institutions (in about 150 words).**

NIL.

*Any other information regarding Innovations and Best Practices which the institution would like to include.*

**The Context:** To find out the necessary information about the conferences, seminars, training programmes etc, and to provide sufficient information well in advance to make proper planning for the postgraduates to attend the conference, so that it does not clash with their completion of mandatory course etc. Motivating the postgraduates to participate in such activities, as it usually costs money and need to go out and stay at places which may not be convenient. Women have extra problems like looking after their families, in-laws, children etc.

**The Practice:** Participation of the postgraduates or even the faculty in the conferences, seminars, training programmes outside the head quarters is a difficult task. These activities promote better quality of learning to the future generations of doctors, nurses and others. Therefore it is highly relevant in the context of higher learning not only in India, but anywhere in the world.

**Evidence of Success:** Most of the students are clearing the exams regularly. Our success rate in examinations varies between 80% to 100%. Most of the students are toppers in the merit list of the University. This is because of the opportunities they have to improve their academic brilliance. Many of our students are occupying important and good positions in the public and private organizations. Some of them are doing very well in the foreign countries. These results indicate that the Institution is going on in the right direction in improving the academics.

**Problems encountered:** Institution needs administrative cooperation and encouragement. Fortunately Institution do not have such a problem.

Institution needs to have sufficient time to plan. Sometimes this may not be possible. Institution can only get it after it gets on the net. Institution can keep surfing the net



regularly, every day if required, so that precious time may not be lost. Sanction of travel or research grants should come in time. This can also be addressed if it is possible to plan and implement proper strategy to succeed. Motivating the postgraduates, especially the married young girls may be the next problem. It used to be a very big a problem some time back. But now-a-days many ladies are self motivated, and are willing to listen to their Head of the departments. In fact ladies are excelling in all fields, sometimes even better than men.

Continued-with evaluative reports of the department