

### ***Program Outcomes, Program specific Outcomes and Course Outcomes***

Narayana Medical College relied on the program outcomes as defined by the National Medical Commission. The Governing Council ratifies these outcomes before the implementation of the program. The results are determined separately for the undergraduate and postgraduate programs. The teaching and learning methods are designed in such a way to achieve the program outcome by every student pursuing the course.

***UG Program Outcomes (POs):*** It is defined as the Indian Medical Graduate possessing the requisite knowledge, skills, attitude, It represents the knowledge, skills and attitudes values and responsiveness, so that she or he may function appropriately and efficiently as a physician of the first contact of the community while being globally relevant

***UG Course Outcomes (CO):*** The MBBS course outcomes are specific, and every student shall attain these outcomes to declare successfully. The National Medical Commission spells out these outcomes. These are namely:

- a) Be competent in diagnosis and management of common health problems of the individual and the community, commensurate with his/her position as a member of the health team at the primary, secondary or tertiary levels, using his/her clinical skills based on history, physical examination and relevant investigations.
- b) Be competent to practice preventive, promotive, curative and rehabilitative medicine in respect to the commonly encountered health problems.
- c) Appreciate rationale for different therapeutic modalities, be familiar with the administration of the "essential drugs" and their common side effects.
- d) Be able to appreciate the socio-psychological, cultural, economic and environmental factors affecting health and develop humane attitude towards the patients in discharging one's professional responsibilities.
- e) Possess the attitude for continued self learning and to seek further expertise or to pursue research in any chosen area of medicine, action research and documentation skills.
- f) Be familiar with the basic factors which are essential for the implementation of the National Health Programs including practical aspects.

- g) Acquire basic management skills in the area of human resources, materials and resource management related to health care delivery, General and hospital management, principal inventory skills and counselling.
- h) Be able to identify community health problems and learn to work to resolve these by designing, instituting corrective steps and evaluating the outcome of such measures.
- i) Be able to work as a leading partner in health care teams and acquire proficiency in communication skills.
- j) Be competent to work in a variety of health care settings.
- k) Have personal characteristics and attitudes required for professional life, including personal integrity, sense of responsibility and dependability and ability to relate to or show concern for other individuals.

**UG Program-specific Objectives (PSO):** The program-specific objectives of the MBBS course are as follows:

- I. Clinician who understands and provides preventive, promotive, curative, palliative and holistic care with compassion.
- II. Leader and member of the health care team and system with capabilities to collect, analyze, synthesize and communicate health data appropriately.
- III. Communicator with patients, families, colleagues and community.
- IV. Lifelong learner committed to continuous improvement of skills and knowledge.
- V. Professional, who is committed to excellence, is ethical, responsive and accountable to patients, community and profession.

Similarly, the Postgraduate program objectives, as defined by the National Medical Commission, are program-specific and are adopted as such. All the students pursuing a specific course shall attain these outcomes.

**Postgraduate Program specific objectives (PSO):**

No	Program	Program Specific Objectives
	<b>MD in Community Medicine</b>	1) To create a skilled cadre of medical professionals having expertise in the application of principles of Public Health, Community Medicine and applied epidemiology, contributing meaningfully in formulating National Health Policies & Programmes with a systems approach for

		<p>overall human development.</p> <ol style="list-style-type: none"> <li>2) To standardize the teaching &amp; training approaches at postgraduate level, for Community Medicine</li> <li>3) Research: To formulate research questions, do a literature search, conduct study with an appropriate study design and study tool; conduct data collection and management, data analysis and report</li> </ol>
	<b><i>MD in Anatomy</i></b>	<ol style="list-style-type: none"> <li>1) Is aware of contemporary advances and developments in the field of Anatomy.</li> <li>2) Has acquired the competencies pertaining to the subject of Anatomy that are required to be practiced at all levels of health system.</li> <li>3) Is able to discharge responsibilities and participate in National Health Education Programme.</li> <li>4) Is oriented to the principles of research methodology.</li> <li>5) Has acquired skills in educating medical and paramedical professionals.</li> <li>6) Has acquired skills in effectively communicating with the students and colleagues from various medical and paramedical fields.</li> <li>7) Has acquired skills of integrating anatomy with other disciplines as and when needed.</li> <li>8) Has acquired qualities of a good teacher capable of innovations in teaching methodology.</li> <li>9) Has been able to demonstrate adequate management skills to function as an effective leader of the team engaged in teaching and research.</li> </ol>
	<b><i>MD in Anesthesia</i></b>	<ol style="list-style-type: none"> <li>1) Theoretical knowledge: The student should have fair knowledge of basic sciences (Anatomy, Physiology, Biochemistry, Microbiology, Pathology, Pharmacology, Statistics and Physics) as applied to Anaesthesia. The student should acquire in-depth knowledge including recent advances. He/she should be fully conversant with the bedside procedures (diagnostic and therapeutic) and have knowledge of latest diagnostics and therapeutics procedures available including radiological methods.</li> <li>2) Teaching: The student should learn the basic methodology of teaching and develop competence in teaching medical/paramedical students. The student should be familiar with the latest teaching (computer and power point presentation) modes including simulators training and evidence based medical education.</li> <li>3) Attitude development: The student should</li> </ol>

		develop attitude that leads to appropriate communication with colleagues to function in a group in Operating Room /Intensive Care Unit, and develop the ability to function as a leader in the operating room
	<b><i>MD in Biochemistry</i></b>	<ol style="list-style-type: none"> <li>1) Acquisition of knowledge: The student should be able to explain clearly concepts and principles of biochemistry and cell biology, including correlations of these with cellular and molecular processes involved in health and disease.</li> <li>2) Teaching and training: The student should be able to effectively teach undergraduate students in medicine and allied health science courses so they become competent health care professionals and able to contribute to training of postgraduate post graduate students.</li> <li>3) Diagnostic services: The student should be able to set up/supervise/manage a diagnostic laboratory in Biochemistry in a hospital, ensuring quality control, and providing a reliable support service. The student should be able to provide clinicians with consultation services for diagnostic tests in biochemistry and in interpretation of laboratory results.</li> <li>4) Research: The student should be able to carry out a research project from planning to publication and be able to pursue academic interests and continue life-long learning to become more experienced in all the above areas and to eventually be able to guide postgraduates in their thesis work.</li> </ol>
	<b><i>MD in Dermatology</i></b>	<ol style="list-style-type: none"> <li>1) Student should have knowledge of basic sciences (Anatomy, Physiology, Biochemistry, Microbiology, Pathology and Pharmacology) as applied to dermatology.</li> <li>2) The student should acquire in-depth knowledge of his subject including recent advances.</li> <li>3) The student should be fully conversant with the bedside procedures (diagnostic and therapeutic) and having knowledge of latest diagnostics and therapeutics available.</li> <li>4) Student should have acquired practical and procedural skills related to the subject.</li> <li>5) Critically evaluate, initiate investigation and clinically manage cases in Dermatology, Venereology and Leprosy with the help of relevant investigations.</li> <li>6) Should plan and advise measures for the prevention and rehabilitation of patients with various dermatological conditions.</li> <li>7) Able to ensure the implementation of National Health Programmes, particularly in sexually</li> </ol>

		<p>transmitted diseases (STD) and leprosy.</p> <p>8) Acquire training skills in research methodology, professionalism, attitude and communication skills.</p> <p>9) Teaching skills in the subject o Student should learn the basic methodology of teaching and develop competence in teaching medical/paramedical students.</p> <p>10).Should have acquired Problem Solving skills</p>
	<b><i>MD in Forensic Medicine</i></b>	<ol style="list-style-type: none"> <li>1) Become an expert in Forensic Medicine.</li> <li>2) Identify and define medico-legal problems as they emerge in the community and work to resolve such problems by planning, implementing, evaluating and modulating Medico-legal services.</li> <li>3) Undertake medico-legal responsibilities and discharge medico-legal duties in required settings.</li> <li>4) Keep abreast with all recent developments and emerging trends in Forensic Medicine, Medical Ethics and the law.</li> <li>5) Deal with general principles and practical problems related to forensic, clinical, emergency, environmental, medico-legal and occupational aspects of toxicology.</li> <li>6) Deal with medico-legal aspects of Psychiatry, mental health and drug addiction.</li> <li>7) Impart education in Forensic Medicine and Toxicology to under-graduate and postgraduate students with the help of modern teaching aids.</li> <li>8) Assess the students' knowledge and skills in the subject of Forensic Medicine</li> <li>9) Oriented to research methodology and conduct of research in the subject</li> </ol>
	<b><i>MD in General Medicine</i></b>	<ol style="list-style-type: none"> <li>1) Practice efficiently internal medicine specialty, backed by scientific knowledge including basic sciences and skills</li> <li>2) Diagnose and manage majority of conditions in his specialty (clinically and with the help of relevant investigations</li> <li>3) Exercise empathy and a caring attitude and maintain professional integrity, honesty and high ethical standards</li> <li>4) Plan and deliver comprehensive treatment using the principles of rational drug therapy</li> <li>5) Plan and advise measures for the prevention and rehabilitation of patients belonging to his speciality;</li> <li>6) Manage emergencies efficiently by providing Basic Life Support (BLS) and Advanced Life Support (ALS) in emergency situations</li> <li>7) Recognize conditions that may be outside the</li> </ol>

		<p>area of the speciality/ competence and refer them to an appropriate specialist</p> <ol style="list-style-type: none"> <li>8) Demonstrate skills in the documentation of case details including epidemiological data</li> <li>9) Play the assigned role in the implementation of National Health Programs</li> <li>10) Demonstrate competence in basic concepts of research methodology and clinical epidemiology; and preventive aspects of various disease states</li> <li>11) Be a motivated 'teacher' - defined as one keen to share knowledge and skills with a colleague or a junior or any learner</li> <li>12) Continue to evince keen interest in continuing education irrespective of whether he/she is in a teaching institution or is practicing and use appropriate learning resources</li> <li>13) Be well versed with his medico-legal responsibilities</li> <li>14) Undertake audit, use information technology tools and carry out research - both basic and clinical, with the aim of publishing the work and presenting the work at scientific forums.</li> <li>15) The student should be able to recognize the mental condition characterized by self absorption and reduced ability to respond to the outside world (e.g. Autism), abnormal functioning in social interaction with or without repetitive behaviour and/or poor communications, etc.</li> </ol>
	<p><b><i>MD in Hospital Administration</i></b></p>	<ol style="list-style-type: none"> <li>1) Is aware of contemporary advances &amp; developments in medical sciences as related to the subject of hospital administration.</li> <li>2) Has acquired the competencies pertaining to management science in general and hospital administration in particular for the purpose of application in the hospital and health services, that are required to be practiced in the community and at all levels of health system. In order to (i) improve the quality of patient care and (ii) ensure optimum utilization of the resources and facilities.</li> <li>3) Recognizes the health needs of subject and families and carries out professional obligations in keeping with principles of the National Health Policy and professional ethics. The student will acquire an understanding of the complex nature of health and hospital administration and to foresee the antagonizing and synergizing variables towards the role performance of the hospitals.</li> </ol>

		<ol style="list-style-type: none"> <li>4) Is oriented to principles of research methodology.</li> <li>5) Has acquired skills in educating medical and paramedical professionals.</li> <li>6) Has acquired skills in effectively communicating with the person, family and the community.</li> <li>7) Additionally, the student should have developed administrative and executive leadership skills founded on thorough understanding and knowledge of organizational problems, employee productivity and social responsibilities in the existing milieu.</li> </ol>
	<b><i>MD in Microbiology</i></b>	<ol style="list-style-type: none"> <li>1) Demonstrate competence as a clinical microbiologist</li> <li>2) Interact effectively with the allied departments by rendering services in basic as well as advanced laboratory investigations</li> <li>3) Demonstrate application of microbiology in a variety of clinical settings to solve diagnostic and therapeutic problems along with preventive measures.</li> <li>4) Play a pivotal role in hospital infection control, including formulation of antibiotic policy and management of biomedical waste.</li> <li>5) Acquire skills in conducting collaborative research in the field of Microbiology and allied sciences.</li> <li>6) Conduct such clinical/experimental research as would have significant bearing on human health and patient care</li> <li>7) Demonstrate effective communication skills required for the practice of clinical microbiology and while teaching undergraduate students</li> <li>8) Establish good clinical microbiological services in a hospital and in the community in the fields of bacteriology, virology, parasitology, immunology and mycology.</li> <li>9) Plan, execute and evaluate teaching assignments in Medical Microbiology.</li> <li>10) Plan, execute, analyze and present the research work in medical microbiology.</li> <li>11) To acquire various skills for collaborative research.</li> <li>12) To participate in various workshops/seminars/journal clubs/demonstration in the allied departments</li> <li>13) Uphold the prestige of the discipline amongst the fraternity of doctors.</li> </ol>
	<b><i>MD in Pathology</i></b>	<ol style="list-style-type: none"> <li>1) Diagnose routine and complex clinical problems on the basis of histopathology (surgical pathology) and cytopathology specimens, blood and bone marrow examination and various tests</li> </ol>

		<p>of Laboratory Medicine (clinical pathology, clinical biochemistry) as well as Blood Banking (Transfusion Medicine).</p> <ol style="list-style-type: none"><li>2) Interpret and correlate clinical and laboratory data so that clinical manifestations of diseases can be explained.</li><li>3) Advise on the appropriate specimens and tests necessary to arrive at a diagnosis in a problematic case.</li><li>4) Correlate clinical and laboratory findings with pathology findings at autopsy, identify miscorrelations and the causes of death due to diseases (apart from purely metabolic causes).</li><li>5) Should be able to teach Pathology to undergraduates, postgraduates, nurses and paramedical staff including laboratory personnel.</li><li>6) Plan, execute, analyse and present research work.</li><li>7) Make and record observations systematically and maintain accurate records of tests and their results for reasonable periods of time. Identify problems in the laboratory, offer solutions thereof and maintain a high order of quality control.</li><li>8) Capable of safe and effective disposal of laboratory waste.</li><li>9) Able to supervise and work with subordinates and colleagues in a laboratory</li><li>10) Should be able to function as a part of a team, develop an attitude of cooperation with colleagues, and interact with the patient and the clinician or other colleagues to provide the best possible diagnosis or opinion.</li><li>11) Always adopt ethical principles and maintain proper etiquette in dealings with patients, relatives and other health personnel and to respect the rights of the patient including the right to information and second opinion.</li><li>12) Develop communication skills to word reports and professional opinion as well as to interact with patients, relatives, peers and paramedical staff, and for effective teaching.</li><li>13) Able to perform routine tests in a Pathology Laboratory including grossing of specimens, processing, cutting of paraffin and frozen sections, making smears, and staining.</li><li>14) Able to collect specimens by routinely performing non-invasive out-patient procedures such as venipuncture, finger-prick, fine needle aspiration of superficial lumps and bone-marrow aspirates, and provide appropriate help to colleagues performing an invasive procedure</li></ol>
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		<p>such as a biopsy or an imaging guided biopsy.</p> <p>15) Perform an autopsy, dissect various organ complexes and display the gross findings.</p> <p>16) Should be familiar with the function, handling and routine care of equipment in the laboratory.</p>
	<b>MD in Paediatrics</b>	<ol style="list-style-type: none"> <li>1) Recognizes the health needs of infants, children and adolescents and carries out professional obligations in keeping with principles of the National Health Policy and professional ethics</li> <li>2) Has acquired the competencies pertaining to Paediatrics that are required to be practiced in the community and at all levels of health system</li> <li>3) Has acquired skills in effectively communicating with the child, family and the community</li> <li>4) Is aware of contemporary advances and developments in medical sciences as related to child health</li> <li>5) Is oriented to principles of research methodology</li> <li>6) Has acquired skills in educating medical and paramedical professionals</li> <li>7) Is able to recognize mental conditions and collaborate with Psychiatrists/Child Psychologists for the treatment of such patients</li> </ol>
	<b>MD in Pharmacology</b>	<ol style="list-style-type: none"> <li>1) Acquisition of knowledge: The student should be able to explain clearly concepts and principles of Pharmacology and therapeutics. The student should also be able to explain the drug development processes. S/he should be able to explain Drugs and Cosmetics Act, in addition to clinical trial procedures.</li> <li>2) Teaching and training: The student should be able to effectively teach undergraduate students in medicine (MBBS) and allied health science courses (Dentistry and Nursing) so they become competent healthcare professionals and able to contribute to training of postgraduate trainees.</li> <li>3) Research: The student should be able to carry out a research project (both basic and clinical) from planning to publication and be able to pursue academic interests and continue life-long learning to become more experienced in all the above areas and to eventually be able to guide postgraduates in their thesis work</li> </ol>
	<b>MD in Physiology</b>	<ol style="list-style-type: none"> <li>1) Understand and deal with all aspects of general, systemic and applied Physiology.</li> <li>2) Teach effectively the basic physiological mechanisms of human body with reference to their implications in the pathogenesis of diseases (pathophysiology) affecting various organ systems and the physiological basis of their management to undergraduate medical,</li> </ol>

		<p>paramedical and all other basic science students.</p> <ol style="list-style-type: none"> <li>3) Understand general principles of medical education (use of appropriate teaching techniques and resources).</li> <li>4) Explain how the knowledge of physiology can be effectively used in a various clinical settings to solve diagnostic and therapeutic problems.</li> <li>5) Interpret and evaluate research publications critically.</li> <li>6) Use the library facilities (Literature database using computer, CD ROM, internet search and any other available newer techniques).</li> <li>7) Conduct relevant clinical/experimental research which may have significant bearing on human health and patient care.</li> <li>8) Interpret the research findings in the light of its basic and applied significance.</li> <li>9) Acquire skills in conducting collaborative research in the field of physiology with allied sciences, clinical sciences and biomedical engineering.</li> <li>10) Interact with the allied departments and render services in advanced laboratory investigations.</li> <li>11) Serve as interface with society at large.</li> <li>12) Acquire administrative skills to set up concerned department / laboratories and initiate purchase procedure and procure necessary items for running such laboratories.</li> <li>13) Function as a member of a teaching or research team</li> </ol>
	<p><b>MD in Psychiatry</b></p>	<ol style="list-style-type: none"> <li>1) Understand the relevance of mental health in relation to the health needs of the country</li> <li>2) Ethical considerations in the teaching and practice of Psychiatry</li> <li>3) Identify the social, economic, biological and emotional determinants of mental health</li> <li>4) Identify the environmental causes as determinants of mental health</li> <li>5) Institute appropriate diagnostic, therapeutic and rehabilitative procedures to the mentally ill patient</li> <li>6) Take detailed history, conduct appropriate ethically valid physical examination and institute appropriate evaluation procedures to make a correct clinical diagnosis</li> <li>7) Perform relevant investigative and therapeutic procedures for the psychiatric patient</li> <li>8) Recommend appropriate laboratory and imaging examinations and interpret the results correctly</li> <li>9) Plan and deliver comprehensive treatment of a psychiatric patient using principles of rational</li> </ol>

		<p>drug therapy</p> <ol style="list-style-type: none"> <li>10) Plan rehabilitation of psychiatric patient suffering from chronic illness</li> <li>11) Clinically manage psychiatric emergencies efficiently • Demonstrate empathy and humane approach towards patients and their families and respect their sensibilities</li> <li>12) Demonstrate communication skills of a high order in explaining management and prognosis, providing counseling and giving health education messages to patients, families and communities</li> <li>13) Develop appropriate skills to practice evidence-based psychiatry</li> <li>14) Demonstrate competence in basic concepts of research methodology and epidemiology</li> <li>15) Be aware of and take appropriate steps in the implementation of national mental health programs, effectively and responsibly</li> <li>16) Be aware of the concept of essential drugs and rational use of drugs</li> <li>17) Be aware of the legal issues in the practise of Psychiatry</li> <li>18) Be aware of the special requirements in the practice of Child and adolescent Psychiatry and Geriatric Psychiatry</li> <li>19) Research: The student should know the basic concepts of research methodology and plan a research project in accordance with ethical principles. S/he should also be able to interpret research findings and apply these in clinical practice. S/he should know how to access and utilize information resources and should have basic knowledge of statistics.</li> <li>20) Teaching: S/He should learn the basic methodology of teaching and develop competence in teaching medical/paramedical students, health professionals, members of allied disciplines (e.g. behavioural sciences), law enforcement agencies, families and consumers and members of the public.</li> </ol>
	<b>MD in Radiodiagnosis</b>	The objective of the program is to train a student to become a skilled and competent radiologist to conduct and interpret various diagnostic/interventional imaging studies (both conventional and advanced imaging), to organize and conduct research and teaching activities and be well versed with medical ethics and legal aspects of imaging/ intervention.
	<b>MS in ENT</b>	<ol style="list-style-type: none"> <li>1) Practice his specialty ethically keeping in mind the requirement of the patient, community and people at large.</li> </ol>

		<ol style="list-style-type: none"> <li>2) Demonstrate sufficient understanding of basic sciences related to his specialty and be able to integrate such knowledge in his Clinical practice.</li> <li>3) Diagnose and manage majority of conditions in his specialty (clinically and with the help of relevant investigations)</li> <li>4) Plan and advise measures for the promotive, preventive, curative and rehabilitative aspects of health and diseases in the specialty of ENT.</li> <li>5) Should be able to demonstrate his cognitive skills in the field of ENT and its ancillary branches during the formative and summative evaluation processes.</li> <li>6) Play the assigned role in the implementation of National Health Programs</li> <li>7) Demonstrate competence in basic concepts of research methodology and writing thesis and research papers.</li> <li>8) Develop good learning, communication and teaching skills.</li> <li>9) Demonstrate sufficient understanding of basic sciences and the clinical applications related to the specialty to be able to integrate this knowledge into Clinical practice. Acquire in-depth knowledge in the subject including recent advances.</li> <li>10) Demonstrate that he is fully conversant with the latest diagnostics &amp; therapeutics available.</li> </ol>
	<p><b><i>MS in Obstetrics &amp;Gynecology</i></b></p>	<ol style="list-style-type: none"> <li>1) Provide quality care to the community in the diagnosis and management of Antenatal, Intra-natal and Post-natal period of normal and abnormal pregnancy and labor.</li> <li>2) Provide effective and adequate care to a pregnant woman with complicated pregnancy.</li> <li>3) Provide effective and adequate care to a normal and high risk neonate.</li> <li>4) Perform obstetrical ultrasound in normal and abnormal pregnancy including Doppler.</li> <li>5) Manage effectively all obstetrical and gynecological emergencies and if necessary make appropriate referrals.</li> <li>6) Provide quality care to the community in the diagnosis and management of gynaecological problems including screening, and management of all gynecological cancers including during pregnancy.</li> <li>7) Conduct a comprehensive evaluation of infertile couple and have a broad based knowledge of assisted reproductive techniques including – ovulation induction, in vitro fertilization and intra-cytoplasmic sperm injection, gamete</li> </ol>

		<p>donation, surrogacy and the legal and ethical implications of these procedures.</p> <p>8) Provide counseling and delivery of fertility regulation methods including reversible and irreversible contraception, emergency contraception etc.</p> <p>9) Provide quality care to women having spontaneous abortion or requesting Medical Termination of Pregnancy (MTP) and manage their related complications.</p>
	<p><b><i>MS in Ophthalmology</i></b></p>	<ol style="list-style-type: none"> <li>1) The student should possess basic knowledge of the structure, function and development of the human body as related to ophthalmology, of the factors which may disturb these mechanisms and the disorders of structure and function which may result thereafter.</li> <li>2) The student should be able to practice and handle most day-to-day problems independently in ophthalmology. The student should recognize the limitations of his/her own clinical knowledge and know when to seek further help.</li> <li>3) The student should understand the effects of environment on health and be familiar with the epidemiology of at least the more common diseases in the field of ophthalmology.</li> <li>4) The student should be able to integrate the preventive methods with the curative and rehabilitative measures in the comprehensive management of the disease.</li> <li>5) The student should be familiar with common eye problems occurring in rural areas and be able to deal with them effectively.</li> <li>6) The student should also be made aware of Mobile Ophthalmic Unit and its working and components.</li> <li>7) The student should be familiar with the current developments in Ophthalmic Sciences.</li> <li>8) The student should be able to plan educational programmes in Ophthalmology in association with senior colleagues and be familiar with the modern methods of teaching and evaluation.</li> <li>9) The student should be able to identify a problem for research, plan a rational approach to its solution, execute it and critically evaluate his/her data in the light of existing knowledge.</li> <li>10) The student should reach the conclusions by logical deduction and should be able to assess evidence both as to its reliability and its relevance.</li> <li>11) The student should have basic knowledge of medico-legal aspects of medicine.</li> <li>12) The student should be familiar with</li> </ol>

		patient counseling and proper consent taking.
	<b>MS in Orthopaedics</b>	<ol style="list-style-type: none"> <li>1) Theoretical knowledge (Cognitive domain) • Practical and clinical skills (psychomotor domain)</li> <li>2) Attitudes including communication skills (Affective domain)</li> <li>3) Writing thesis / Reviewing Research activities (Scholarly activity)</li> <li>4) Training in Research Methodology (Practice based learning, Evidence based practice)</li> <li>5) Professionalism</li> <li>6) Teaching skills</li> </ol>
	<b>MS in General Surgery</b>	<ol style="list-style-type: none"> <li>1) Clinical Skills: 1. diagnose and appropriately manage common surgical ailments in a given situation. 2. provide adequate preoperative, post-operative and follow-up care of surgical patients. 3. identify situations calling for urgent or early surgical intervention and refer at the optimum time to the appropriate centers. 4. counsel and guide patients and relatives regarding need, implications and problems of surgery in the individual patient. 5. provide and coordinate emergency resuscitative measures in acute surgical situations including trauma. 6. organize and conduct relief measures in situations of mass disaster including triage. 7. effectively participate in the National Health Programs especially in the Family Welfare Programs. 8. discharge effectively medico-legal and ethical responsibilities and practice his specialty ethically. 9. must learn to minimize medical errors. 10. must update knowledge in recent advances and newer techniques in the management of the patients. 11. must learn to obtain informed consent prior to performance of operative procedure. 12. perform surgical audit on a regular basis and maintain records (manual and/or electronic) for life. 13. participate regularly in departmental academic activities by presenting Seminar, Case discussion, Journal Club and Topic discussion on weekly basis and maintain logbook. 14. demonstrate sufficient understanding of basic sciences related to his specialty. 15. plan and advise measures for the prevention and rehabilitation of patients belonging to his specialty.</li> <li>2) Research: The student should: 1. know the basic concepts of research methodology, plan a research project and know how to consult library. 2. should have basic knowledge of statistics.</li> <li>3) Teaching: The student should learn the basic methodology of teaching and develop</li> </ol>

		<p>competence in teaching medical/paramedical students.</p> <p>4) Professionalism: 1. The student will show integrity, accountability, respect, compassion and dedicated patient care. The student will demonstrate a commitment to excellence and continuous professional development. 2. The student should demonstrate a commitment to ethical principles relating to providing patient care, confidentiality of patient information and informed consent. 3. The student should show sensitivity and responsiveness to patients' culture, age, gender and disabilities.</p>
	<p><b><i>DM in Endocrinology</i></b></p>	<p>a. knowledge in the basic, comparative and translational and clinical endocrinology, diabetes and metabolism,</p> <p>b. clinical diagnostic critical thinking, problem solving, self-directed learning and procedural skills,</p> <p>c. Skills as related to formulating research questions, initiating, conducting and analysing translational, clinical and epidemiologic research,</p> <p>d. Team leadership and networking skills,</p> <p>e. Communication skills necessary for working with and educating patients and team members,</p> <p>f. Attitudes and values that will allow him or her to provide compassionate, responsive and respectful ethical care to the patient.</p> <p>1) Theoretical Knowledge: • The post graduate student in Endocrinology must acquire knowledge in all aspects relevant to the practice of Endocrinology. This includes training and expertise in Endocrinology capable of providing specialist care, being a teacher and guiding researcher in Endocrine medicine. • She/ He should acquire and be able to impart necessary knowledge, skills and attitudes to diagnose and manage in a cost effective manner various clinical problems in endocrinology as seen in the community and at secondary and tertiary care centers. Special emphasis should be placed on preventive Endocrinology.</p> <p>2) TEACHING SKILLS: Should be able to teach relevant aspects of endocrine diseases to resident doctors, junior colleagues, nursing and para-medical staff.</p> <p>3) RESEARCH METHODOLOGY: Should be able to identify and investigate a research problem in Endocrinology using appropriate methodology.</p> <p>4) GROUP APPROACH: Should participate in multi-disciplinary meetings with experts in General Medicine, Radiology, Pathology, Oncology,</p>

		Laboratory Medicine and other allied clinical disciplines.
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Though the above details the program outcomes and the program-specific outcomes, the Governing body of Narayana Medical College discussed the program's (UG and PG ) outcomes, in a literal sense, the student attaining the specific program outcomes is equipped with a degree (graduate & postgraduate). She/he is now in society to fulfil the ultimate results of the study course. The program outcome for the MBBS Course (UG Program) can be

- a. Seeking higher studies: the higher studies can be either opting for a certificate course or a degree course. These courses are being offered both in India and abroad. Students majority of them opt for higher education.
- b. Some of them desire to join the services of either Government(State/ Central) or Private (Corporate sector or Individual owned). Routinely graduate students prefer to join in service as there exists a specific quota of higher education seats reserved for in-service candidates. After serving for a minimum period of 3-5 years, these graduates can avail this reservation in the postgraduate seats.
- c. Further training to equip themselves to succeed in the competitive postgraduate entrance examination: Those students who are unsuccessful in their attempt at competitive postgraduate entrance examination, opt-out to receive intensive coaching for the NEET-PG entrance examination. This longterm coaching is to succeed and secure a postgraduate seat of their choice.
- d. Entering into private practice: