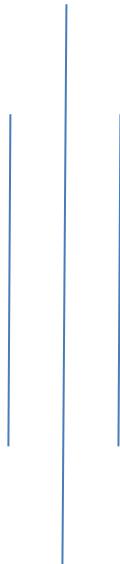


Syllabus for Postgraduate Entrance Examination, 2020 (Revised 2025)



**Medical Education Commission
Sanothimi, Bhaktapur**

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Syllabus for Postgraduate Entrance Examination, 2020 (Revised 2025)

Introduction:

Health Professional education was started in Nepal formerly after establishment of Institute of Medicine under Tribhuvan University in 1972 beginning with training of middle level human resources for health. Bachelor level courses in Institute of Medicine was started in 1978 and postgraduate studies since 1982. Similarly, BP Koirala Institute of Health Sciences was established in eastern Nepal in 1993, Manipal Academy of Health Sciences was established under Kathmandu University as a Kathmandu University affiliated private institutions in 1993. Kathmandu University School of Medical Sciences as constituent campus started MBBS program in 2001. Then National Academy on Medical Sciences was established in 2002 and Patan Academy of Health Sciences in 2008.

Since late 90's, over a period of decade, numerous private medical institutions were also opened in affiliation to various universities which have successfully established and run post graduate courses in various specialties. Multiple health academies have also started post graduate medical courses in different specialties of health sciences. In one hand, the rapid development of medical institutions helped for fulfilling the gap between need of human resources for health. In the other hand, there have been issues related to quality in health professional education and also the process and costs related to the entrance examination and student enrollment. In this context, National Medical Education Act 2075 has envisioned the common entrance examination to be conducted by Medical Education Commission for enrollment of students in various programs and colleges throughout the country. As per the board meeting of Medical Education Commission (MEC) held on 2076.06.01(18 September, 2019). MEC took the responsibility to conduct Postgraduate Entrance Examination and the commission prepared a common syllabus in 2020 in consultation with experts from various institutions with experience in postgraduate entrance examination with the following objectives.

Objectives:

1. To generate consensus among stake holders that aligns with existing PG entrance syllabus
2. To develop common syllabus for specific programs in PG entrance examination

Process Used in the Development of the Syllabus:

1. Institutions conducting postgraduate entrance examinations were officially corresponded to send the ongoing PG programs they are conducting and the syllabus for entrance examinations
2. The available syllabus for related disciplines from various institutions were compiled.
3. Team of experts in the related disciplines representing various institutions worked up for the common syllabus with the help of available compiled documents.
4. A workshop was conducted to scrutinize the contents and other aspects on entrance syllabus involving the experts who developed the syllabus and experienced experts conducting postgraduate entrance examinations in various institutions and head/chief of examination divisions in the respective institutions
5. Another workshop involving all head of institutions and concerned regulatory authority was conducted to come up with the consensus.

General Consensus:

A common consensus on relevant issues related to syllabus were generated with brainstorming and regular discussions as per above mentioned process involving all stakeholders related to conducting postgraduate academic programs.

1. A consensus was made:
 - a. To develop syllabus for various registered post graduate medical (health professionals) programs listed in the annex section.
 - b. To make a single paper for different academic programs (if applicable) with same eligibility criteria e.g. MSc Nursing/MN, MPH/MSc PH, MSc Biochemistry/Microbiology, MSc Basic Medical Sciences Programs.
2. There should be professional council registration for applying to a postgraduate program except for the MPhil Clinical Psychology program where professional council registration is done only after completion of the MPhil course.
3. Consensus was generated to have entrance test paper with 200 MCQs taking into consideration to improve Content coverage as well as to match with the recent practice.
4. MCQs would be of Single Best Response Type (Type A) with four options.
5. Consensus was generated to allow 3 hours with instruction to paper setter that the stem or vignette of the MCQ should not exceed 60 words.
6. Include 10 marks from the topics of CPD programs in MD/MS and MDS Program Including medical ethics, basic and advanced cardiac life support, communication skills, rational use of medicines, infection prevention etc. in order to address human sensitivity and professionalism.
7. Adopt norm-referenced testing system with 50th percentile rank as the qualifying pass mark for inclusion in the merit list

Syllabus for Post Graduate Entrance Examination

I. MD/MS (Doctor of Medicine/Master of Surgery)

A. Eligibility:

- a. MBBS or equivalent
- b. Registered in respective professional council of applicant's country.
- c. One year experience for Nepalese candidates. (Except for MDGP and MD/MS in Basic Medical Sciences)
- d. Candidate should score in upper 50th percentile rank in order to be eligible to be in the merit list of the entrance examination

B. Exam Format:

- a. Single best response type with Multiple choice questions
- b. Four options (A, B, C, D)
- c. No. of questions: 200
- d. Full marks: 200 with 0.25 mark deduction for each wrong response
- e. Difficulty level of the items from the time of question preparation should be at the ratio of Recall: Understanding: Application as 50:30:20
- f. Duration of examination: 3 hours

C. Weightage:

S.N.	Subjects	Marks
	Clinical Subjects (115 marks)	
1.	Medicine	18
2.	Surgery	18
3.	Obstetrics and Gynecology	12
4.	Pediatrics	12
5.	Orthopedics	10
6.	Otorhinolaryngology	10
7.	Ophthalmology	7
8.	Anesthesiology	7
9.	Psychiatry	7
10.	Radiology	7
11.	Dermatology	7
	Basic Medical Science Subjects (85 marks)	
12.	Anatomy	12
13.	Physiology	12
14.	Pathology	10
15.	Pharmacology	10
16.	Biochemistry	8
17.	Microbiology	8
18.	Community Medicine + research Methodology - (6+4)	10
19.	Forensic Medicine	5
20.	Questions related to mandatory CPD (Medical ethics, rational use of drugs, infection prevention, BLS/ACLS, communication skills)	10
	Total	200

II. **MDS (Master of Dental Surgery):**

A. Eligibility:

- a. BDS or equivalent
- b. Registered in respective professional council of applicant's country.
- c. One year experience for Nepalese candidates.
- d. Candidate should score in upper 50th percentile rank in order to be eligible to be in the merit list of the entrance examination

B. Exam Format:

- a. Single best response type with Multiple choice questions
- b. Four options (A, B, C, D)
- c. No. of questions: 200
- d. Full marks: 200 with 0.25 mark deduction for each wrong response
- e. Difficulty level of the items from the time of question preparation should be at the ratio of Recall: Understanding: Application as 50:30:20
- f. Duration of examination: 3 hours

C. Weightage:

S.N.	Subjects	Marks
	Clinical Dental Sciences Subjects (130 marks)	
1.	Oral Medicine and Radiology (10 + 5)	15
2.	Oral and Maxillofacial Surgery	15
3.	Periodontics	15
4.	Conservative Dentistry and Endodontics (7 + 8)	15
5.	Orthodontics and Dentofacial Orthopedics	15
6.	Pedodontics and Preventive Dentistry	15
7.	Prosthodontics and Maxillofacial Prosthetics (Removable Prostho + Fixed Prosthodontics + Maxillofacial Prosthetics) (8+6+1)	15
8.	Public Health Dentistry + Community Medicine & Biostatistics (5 + 5)	10
9.	Oral Pathology and Microbiology	10
10.	Dental Implantology	5
	Basic Medical Science Subjects (70 marks)	
11.	Anatomy	5
12.	Physiology	5
13.	Pathology	5
14.	Pharmacology	5
15.	Biochemistry	5
16.	Microbiology	5
17.	Oral Biology	5
18.	Dental Materials	5
19.	Forensic Odontology	5
20.	General Medicine	5
21.	General Surgery	5
22.	Anesthesia	5
23.	Mandatory CPD Topics (Medical ethics, rational use of drugs, infection prevention, BLS/ACLS, communication skills, medical emergencies in dental practices and practice management in dentistry)	10
	Total	200

III. Master of Public Health (MPH)/ Master of Science in Public Health (MSc PH)/MPHN/MHPE MPH(HPE)/MPH(PHSM):

A. Eligibility:

- a. MBBS, BDS, BPH, BN/BNS/BSc Nursing, BSc MLT/BMLT, BAMS, B Pharmacy, B Optometry, BASLP or equivalent.
- b. Registered in respective professional council of applicant's country.
- c. Candidate should score in upper 50th percentile rank in order to be eligible to be in the merit list of the entrance examination

B. Exam Format:

- a. Single best response type with Multiple choice questions
- b. Four options (A, B, C, D)
- c. No. of questions: 200
- d. Full marks: 200 with 0.25 mark deduction for each wrong response
- e. Difficulty level of the items from the time of question preparation should be at the ratio of Recall: Understanding: Application as 50:30:20
- f. Duration of examination: 3 hours

C. Weightage:

S.N.	Subjects	Marks
1.	Biostatistics	30
2.	Epidemiology	30
3.	Health promotion and Education	20
4.	Food and nutrition	20
5.	Research methodology	12
6.	Basic medical science	8
7.	Demography and health informatics	8
8.	Public health and primary health	8
9.	Environmental health and occupational health	8
10.	Family health and reproductive health	8
11.	Global health and international health	8
12.	Sociology and anthropology	8
13.	Public health administration and management	8
14.	Health system management	8
15.	Project planning, development, implementation and evaluation	8
16.	Health economics and health financing	8
	Total	200

IV. MD Ayurveda (Kayachikitsa)

A. Eligibility:

- a. BAMS or equivalent.
- b. Registered in respective professional council of applicant's country.
- c. One year working experience for Nepalese candidates.
- d. Candidate should score in upper 50th percentile rank in order to be eligible to be in the merit list of the entrance examination

B. Exam Format:

- a. Single best response type with Multiple choice questions
- b. Four options (A, B, C, D)
- c. No. of questions: 200
- d. Full marks: 200 with 0.25 mark deduction for each wrong response
- e. Difficulty level of the items from the time of question preparation should be at the ratio of Recall: Understanding: Application as 50:30:20
- f. Duration of examination: 3 hours

C. Weightage:

S.N.	Subjects	Marks
	Basic Ayurveda medical sciences (66 marks)	
1.	Maulika Sidhanta (Basic Principle of Ayurveda)	10
2.	Shareera Rachna (Anatomy)	8
3.	Shareera Kriya (Physiology)	8
4.	DravyagunaVigyan (Pharmacology)	10
5.	Rasa Shastra avam Bhaishjaya Kalpana (Pharmacy & Pharmaceutics)	10
6.	Roga Vigyana avamVrikriti Vigyana	8
7.	Swasthavritta (Public Medicine)	6
8.	Agadhatantra avam Vyavahara Ayurveda (Forensic & Jurisprudence)	6
	Clinical subjects (134 marks)	
9.	Kaya chikitsa (General Medicine)	28
10.	Shalyatantra (General Surgery)	28
11.	Shalakyatantra (Eye, ENT)	26
12.	Kaumarbhritya (Pediatrics)	26
13.	Prasutitantra avam Striropa (Obs. & Gyane.)	26
	Total	200

V. Master of Nursing/MSc Nursing/Midwifery:

A. Eligibility:

- a. BNS/BMS/BSc Nursing/B Sc Midwifery (BMS/ B Sc Midwifery is eligible only for MSc Midwifery program)
- b. Registered in respective professional council of applicant's country.
- c. One year experience for Nepalese candidates.
- d. Candidate should score in upper 50th percentile rank in order to be eligible to be in the merit list of the entrance examination

B. Exam Format:

- a. Single best response type with Multiple choice questions
- b. Four options (A, B, C, D)
- c. No. of questions: 200
- d. Full marks: 200 with 0.25 mark deduction for each wrong response
- e. Difficulty level of the items from the time of question preparation should be at the ratio of Recall: Understanding: Application as 50:30:20
- f. Duration of examination: 3 hours

C. Weightage:

S.N.	Subjects	Marks
	Nursing Subjects (106 marks)	
1.	Adult Nursing (Medical Surgical Nursing)	20
2.	Midwifery	20
3.	Pediatric Nursing (Child Health Nursing)	20
4.	Community Health Nursing	20
5.	Psychiatric Nursing (Mental Health Nursing)	20
6	Geriatric Nursing	6
	Integrated Health Science Subjects (20 Marks)	
7	Anatomy	6
8	Physiology	4
9	Pharmacology	4
10	Biochemistry	2
11	Microbiology	2
12	Pathology	2
	Nursing Core Subjects (74 marks)	
13.	Educational Science	16
14.	Nursing Concepts and ethical aspects	16
15.	Nursing Leadership and Management	16
16.	Social and Behavioral Science	6
17.	Nursing Research and Biostatistics	20
	Total	200

VI. Master of Pharmacy (MPharm):**A. Eligibility:**

- a. B. Pharm or equivalent.
- b. Registered in respective professional council of applicant's country.
- c. Candidate should score in upper 50th percentile rank in order to be eligible to be in the merit list of the entrance examination

B. Exam Format:

- a. Single best response type with Multiple choice questions
- b. Four options (A, B, C, D)
- c. No. of questions: 200
- d. Full marks: 200 with 0.25 mark deduction for each wrong response
- e. Difficulty level of the items from the time of question preparation should be at the ratio of Recall: Understanding: Application as 50:30:20
- f. Duration of examination: 3 hours

C. Weightage:

S.N.	Subjects	Marks
1.	Biopharmaceutics and Pharmacokinetics	20
2.	Industrial Pharmacy	18
3.	Physical Pharmacy	18
4.	Instrumental Analysis	18
5.	Quality Assurance	18
6.	Pharmacology and toxicology	18
7.	Pharmaceutical Jurisprudence	18
8.	Pharmacotherapeutic	18
9.	Clinical Pharmacy	18
10.	Hospital Pharmacy	18
11.	Pharmacy Practice	18
	Total	200

VII. MSc MIT (Master of Science in Medical Imaging Technology):

A. Eligibility:

- a. BSc MIT or equivalent.
- b. Registered in respective Professional Council of applicant's country.
- c. Candidate should score in upper 50th percentile rank in order to be eligible to be in the merit list of the entrance examination

B. Exam Format:

- a. Single best response type with Multiple choice questions
- b. Four options (A, B, C, D)
- c. No. of questions: 200
- d. Full marks: 200 with 0.25 mark deduction for each wrong response
- e. Difficulty level of the items from the time of question preparation should be at the ratio of Recall: Understanding: Application as 50:30:20
- f. Duration of examination: 3 hours

C. Weightage:

S.N.	Subjects	Marks
	Basic Health Science Subjects (70 marks)	
1.	Anatomy & Physiology	30
2.	Microbiology/Biochemistry/Pathology/Pharmacology	20
3.	Biostatistics & Research Methodology	20
	Core subjects (80 marks)	
4.	Radiographic Technique	20
5.	Fluoroscopic procedures	20
6.	CT procedures	20
7.	MRI procedures	20
	Radiological & Imaging Physics Subjects (50 marks)	
8.	General radiography	10
9.	Fluoroscopy	8
10.	CT	8
11.	MRI	8
12.	Ultrasonography	8
13.	Radiation Protection	8
	Total	200

VIII. MSc Clinical/Medical Biochemistry & MSc Clinical/Medical Microbiology:

A. Eligibility:

- a. Bachelor degree in related subjects **or** BSc (Medical Lab technology) **or** BMLT **or** BSc (Laboratory Medicine), MBBS/BDS **or** its equivalent.
- b. Registered in respective professional council of applicant's country.
- c. Candidate should score in upper 50th percentile rank in order to be eligible to be in the merit list of the entrance examination

B. Exam Format:

- a. Single best response type with Multiple choice questions
- b. Four options (A, B, C, D)
- c. No. of questions: 200
- d. Full marks: 200 with 0.25 mark deduction for each wrong response
- e. Difficulty level of the items from the time of question preparation should be at the ratio of Recall: Understanding: Application as 50:30:20
- f. Duration of examination: 3 hours

C. Weightage :

S.N.	Subjects	Marks
1.	Biochemistry	50
2.	Microbiology	50
3.	Hematology	20
4.	Histopathology	12
5.	Cytopathology	8
6.	General Pathology	10
7.	Anatomy	14
8.	Physiology	16
9.	Basic Pharmacology	8
10.	Biostatistics and Research Methodology	12
	Total	200

IX. MSc in Basic Medical Sciences (Anatomy, Physiology, Pharmacology, Biochemistry, Microbiology)

A. Eligibility:

- a. **Anatomy:** BPT/ BMIT/MBBS/ BDS/ BAMS or equivalent degree with registration in respective professional councils of applicant's country.
- b. **Physiology:** BPT/ BMIT/ MBBS/ BDS/ BAMS or equivalent degree with registration in respective professional councils of applicant's country.
- c. **Pharmacology:** BPharm/ MBBS/ BDS/ BAMS or equivalent degree with registration in respective professional council of applicant's country.
- d. **Microbiology:** BSc Clinical Microbiology/ BSc MLT/ BSc Laboratory Medicine/MBBS/ BDS/ BAMS or equivalent degree with registration in respective professional council of applicant's country.
- e. **Biochemistry:** BSc Clinical Biochemistry / BSc MLT/BSc Laboratory Medicine/MBBS/ BDS/ BAMS or equivalent degree with registration in respective professional council of applicant's country.
- f. Candidate should score in upper 50th percentile rank in order to be eligible to be in the merit list of the entrance examination

B. Exam Format:

- a. Single best response type with Multiple choice questions
- b. Four options (A, B, C, D)
- c. No. of questions: 200
- d. Full marks: 200 with 0.25 mark deduction for each wrong response
- e. Difficulty level of the items from the time of question preparation should be at the ratio of Recall: Understanding: Application as 50:30:20
- f. Duration of examination: 3 hours

C. Weightage:

S.N.	Subjects	Marks
1.	Anatomy	30
2.	Physiology	30
3.	Pathology	30
4.	Biochemistry	30
5.	Microbiology	30
6.	Pharmacology	30
7.	Biostatistics and Research Methodology	20
	Total	200

X. MPhil in Clinical Psychology:

A. Eligibility:

- a. MA/MSc degree in psychology with clinical or counseling psychology as special focus (papers in psychological assessment, psychopathology/ abnormal psychology, counseling/ psychotherapy).
- b. Candidate should score in upper 50th percentile rank in order to be eligible to be in the merit list of the entrance examination

B. Exam Format:

- a. Single best response type with Multiple choice questions
- b. Four options (A, B, C, D)
- c. No. of questions: 200
- d. Full marks: 200 with 0.25 mark deduction for each wrong response
- e. Difficulty level of the items from the time of question preparation should be at the ratio of Recall: Understanding: Application as 50:30:20
- f. Duration of examination: 3 hours

C. Weightage:

S.N.	Subjects	Marks
	General Psychology (80 marks)	
1.	Emotion, motivation, learning	16
2.	Cognitive (sensation, perception, attention, thinking, memory, states of consciousness, thinking, intelligence, language)	16
3.	Developmental psychology (physical, cognitive, and socio-emotional development across lifespan: child, adolescence, adulthood and late adulthood)	16
4.	Social/cross cultural psychology	16
5.	Personality and major psychological theories (psychodynamic, behavioral, humanistic/existential, cognitive etc.)	16
	Clinical Psychology (80 marks)	
6.	Biological/physiological psychology	20
7.	Psychological testing/ assessment	20
8.	Psychopathology/ abnormal psychology	20
9.	Counseling & psychotherapy	20
	Research methods in clinical psychology (40 marks)	
10.	Qualitative (literature, sampling, design/method, analysis), article publishing, research ethics	20
11.	Quantitative (literature, sampling, design/method, analysis), statistics	20
	Total	200

XI. Masters of Optometry (MOptom):

A. Eligibility:

- a. Bachelor of Optometry (BOptom) degree or Bachelor of Optometry and Vision Science (BOptom) or Doctor of Optometry (OD) or BSc in Optometry (BSc Optom) or equivalent degree.
- b. Registered in respective Professional Council of applicant's country.
- c. Candidate should score in upper 50th percentile rank in order to be eligible to be in the merit list of the entrance examination

B. Exam Format:

- a. Single best response type with Multiple choice questions
- b. Four options (A, B, C, D)
- c. No. of questions: 200
- d. Full marks: 200 with 0.25 mark deduction for each wrong response
- e. Difficulty level of the items from the time of question preparation should be at the ratio of Recall: Understanding: Application as 50:30:20
- f. Duration of examination: 3 hours

C. Weightage:

S.N.	Subjects	Marks
1.	Basic Science and Organ Systems	8
2.	Ocular Anatomy and Physiology	16
3.	Physical and geometrical Optics	10
4.	Visual Science	16
5.	Ocular Disease	16
6.	Diagnostic and investigative optometry	20
7.	Ophthalmic and Dispensing Optics	20
8.	Paediatric Optometry and Binocular Vision	20
9.	Contact Lens and ocular prosthesis	20
10.	Low Vision and visual rehabilitation	20
11.	Community optometry	10
12.	Geriatric optometry and vision care	10
13.	Research Methodology and Biostatistics	8
14.	Ethics & Practice Management in Optometry	6
	Total	200

ANNEX
List of Registered Postgraduate Medical (Health Professionals) Programs

A. MD/MS Programs

MD Programs

1. MD Anaesthesiology
2. MD Dermatology
3. MD Internal Medicine
4. MD Obstetrics and Gynaecology
5. MD Ophthalmology
6. MD Pediatrics
7. MD Psychiatry
8. MD Radiodiagnosis
9. MD/(MD Clinical) Biochemistry
10. MD/(MD Clinical) Pharmacology
11. MD/(MD Clinical) Physiology
12. MD Community Medicine
13. MD Forensic Medicine
14. MD/(MD Clinical) Microbiology
15. MD/(MD Clinical) Pathology
16. MD Radiation Oncology
17. MD General Practice & Emergency Medicine

MS Programs

1. MS General Surgery
2. MS/(MS Clinical) Anatomy
3. MS Orthopedics and Trauma Surgery
4. MS Otorhinolaryngology and Head, Neck Surgery

B. MDS

1. MDS Orthodontics and Dentofacial Orthopedics
2. MDS Orthodontics
3. MDS Periodontology and Oral Implantology
4. MDS Prosthodontics
5. MDS Oral and Maxillofacial Surgery
6. MDS Conservative Dentistry and Endodontics
7. MDS Pedodontics and Preventive Dentistry
8. MDS Oral Medicine and Radiology
9. MDS Public Health Dentistry Oral Pathology

C. MD Ayurveda (*Kayachikitsa*)

D. MSc/MN Nursing

MSc Nursing

1. MSc Nursing (Community Health Nursing)
2. MSc Nursing (Psychiatric Nursing)
3. MSc Nursing (Maternal Health Nursing)
4. MSc Nursing (Child Health Nursing)
5. MSc Nursing (Medical Surgical Nursing)

Master of Nursing (MN)

1. MN (Women Health Development)
2. MN (Midwifery)
3. MN (Adult Nursing)
4. MN (Pediatric Nursing)
5. MN (Psychiatric Nursing)
6. MN (Critical Care)

E. MPH Programs

1. MPH (Master of Public Health)
2. MSc in Public Health
3. MPH (Master in Public Health Nutrition.)
4. MHPE (Master in Health Promotion Education)
5. MPH (Health Promotion Education)
6. MPH (Public Health Service Management)

F. MSc in Basic Medical Science

1. MSc Anatomy/Human Anatomy
2. MSc Physiology/Human physiology
3. MSc Biochemistry/Human Biochemistry
4. MSc Microbiology/Human Microbiology
5. MSc Pharmacology
6. MSc Clinical/Medical Microbiology
7. MSc Clinical/Medical Biochemistry

Other PG Programs

1. Master of Pharmacy/ MSc Pharmacy
2. MSc MIT
3. Master of Optometry (MOptom)
4. MPhil Clinical Psychology
5. M.Sc. Clinical Psychology
6. Master in Physiotherapy
7. Master in Medical Physics