



राष्ट्रीय आयुर्विज्ञान आयोग National Medical Commission

NMC Compendium (2020–2023)
– National Eligibility cum Entrance Test –
– National Exit Test –
– Teachers Eligibility Qualification–



Volume 1

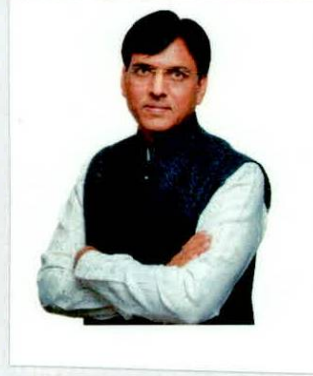
Publication Division, National Medical Commission
Pocket- 14 , Sector – 8, Dwarka Phase -1, New Delhi – 110077, INDIA



डॉ. मनसुख मांडविया
DR. MANSUKH MANDAVIYA



सत्यमेव जयते



MESSAGE

I express my appreciation for the unwavering commitment of the National Medical Commission (NMC), India's Apex Regulatory Authority, in upholding the highest standards in Medical Education. It ensures the delivery of top-notch Medical Education, Practice and Training throughout the nation.

I do appreciate the diligent efforts of NMC in the bringing out of valuable Publications, like the Compendium on NMC Advisories, Public Notices, Circulars & Guidelines for the years 2020-21 and 2022-23 and the Compendium on NMC Regulations (2020-23). I hope that these publications will be a valuable resource for the diverse stakeholders of the health ecosystem including Policymakers, Medical Education Fraternity, Researchers, Clinicians, other Healthcare Professionals, and the general public seeking awareness of Policies and Regulations of Medical Education and Practice.

I extend my heartfelt congratulations to the entire team for publication of the above compendium and hope to have more such commendable endeavors by the Commission in the future.

(Dr. Mansukh Mandaviya)

सुधांश पंत

सचिव

Sudhansh Pant
Secretary



सत्यमेव जयते



MESSAGE

The National Medical Commission (NMC), India's premier regulatory body has been committed to upholding the highest standards in healthcare education, ensuring delivery of quality medical education, practice and training across the nation.

I applaud the diligent efforts of the Publication Team of NMC who have worked hard to bring Publications on Compendium on NMC Advisories, Public Notice, Circular & Guidelines (2020-21), Compendium on NMC Advisories, Public Notice, Circular & Guidelines (2022-23) and Compendium on NMC Regulations (2020-23). I envision that it would serve a variety of audiences such as the policymakers, researchers, clinicians, other health professionals and the public which needs to be aware of the Gazette notification, Advisories, Circulars, Public Notices etc. issued by NMC from time to time.

Congratulations to the team and waiting for more such endeavours.

Dated 13th November, 2023

Sudhansh Pant

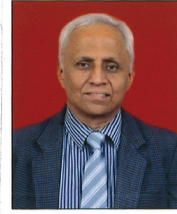
(Sudhansh Pant)



डॉ. बी. न. गंगाधर
Dr. B. N. Gangadhar
अध्यक्ष/ President
चिकित्सा मूल्यांकन और मापन बोर्ड
Medical Assessment & Rating Board
& Officiating Chairman, NMC

राष्ट्रीय आयुर्विज्ञान आयोग
स्वास्थ्य एवं परिवार कल्याण मंत्रालय
भारत सरकार
National Medical Commission
Ministry of Health & Family Welfare
Government of India

MESSAGE



I am delighted to announce the publication of the Compendium of the National Medical Commission (NMC). This provides a comprehensive collection of Regulations, Guidelines, circulars, notices, advisories and other important documents.

The compendium is an important milestone in the journey towards mission of NMC; excellence in healthcare delivery. The contents of the compendium help all the stakeholders including the functionaries at NMC to adhere to the standards that will help sound medical education and practice of the profession. The National Medical Commission is committed to fostering an environment of innovation, professionalism and mutual trust within the medical community.

I urge all stakeholders to become familiar with all the Regulations, Guidelines and other advisories brought out by the NMC using this compendium.

Let us all work together to elevate the standards of medical education and care in our country, ultimately benefitting the health and well-being of our fellow citizens.


(Dr B.N. Gangadhar)



डॉ. विजय ओझा
Dr. Vijay Oza
अध्यक्ष/President
स्नातकोत्तर आयुर्विज्ञान शिक्षा बोर्ड
Post Graduate Medical Education Board



सत्यमेव जयते
75
आज़ादी का
अमृत महोत्सव

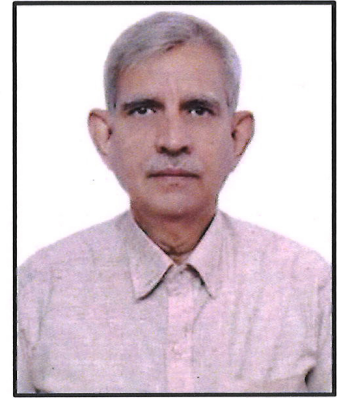


राष्ट्रीय आयुर्विज्ञान आयोग
भारत सरकार
National Medical Commission
Government of India

Message

It gives me immense pleasure in being a part of NMC to share the information with the readers and particularly stake holders about various Public Notifications, circulars, guidelines & regulations issued by National Medical Commission (NMC) and its four Boards.

As the readers are aware, NMC was created by the Act of Parliament on 25th September, 2020 replacing the erstwhile Medical Council of India (MCI). Since all officers and employee of erstwhile Medical council of India were asked to vacate their offices with immediate effect and new staff were appointed over a period of time, there were some difficulties initially. In spite of that everyone in NMC worked hard to stabilize the organization to serve the purpose for which it was created.



I congratulate Prof. Yogender Malik and his team to take up this Herculean task and coming out with this compendium which will be very useful to the students, to the faculty, to the academia at large, to the friends involved in legal system and will also be a window to the world for understanding and following Indian Medical Education, particularly when WFME has accredited NMC for the coming ten years. In turn this will help NMC also by receiving feedbacks and suggestions from various stake holders and luminaries.

Vijay V. Oza.
(Dr. Vijay Oza)

**President,
Post Graduate Medical Education Board, NMC**

डॉ. अरुणा वि. वणीकर

Dr. Aruna V. Vanikar

अध्यक्ष/President

स्नातक चिकित्सा शिक्षा बोर्ड

Under Graduate Medical Education Board



सत्यमेव जयते



MESSAGE

It gives me immense pleasure in being a part of NMC to share the information with the readers and particularly stake holders about various Public Notifications, circulars, guidelines & regulations issued by National Medical Commission (NMC) including Undergraduate Medical Examination Board (UGMEB), from time to time.

As the readers are aware, NMC was created by the Act of Parliament on 25th September, 2020 bringing an end to the erstwhile Medical Council of India (MCI) and the aura associated with it.

This timeline of NMC & UGMEB may be divided into two parts; the first part from year 2020 to year 2021 as covid period; and years 2022 to 2024 as post-covid period. NMC was born in the period when the entire world was caught in snares of the dreadful covid-19 virus pandemic. Medical education of our country was also hit by this attack. By the time, we were recovering from it, Ukraine-Russia war overtook the world scenario and once again affected education of Indian students studying in CIS countries and in neighbouring countries.

Even in this turmoil, NMC continued to function as effectively as possible, with whatever manpower and resources available to it and practically no institutional memory. This publication including a series of Notifications were issued from UGMEB, which includes issues broadly classified as follows. New notifications shall be added as and when needed.

- (i) Related to conduct of medical education and examinations in online and offline mode.
- (ii) Academic calendar for various batches from academic year 2020 to 2023.
- (iii) Regulations/ Guidelines:-
 - Compulsory Rotating Medical Internship Regulations, 2021
 - Foreign Medical Graduate Licentiate Regulations, 2021
 - Prevention of Ragging Regulations, 2021
 - Graduate Medical Education Regulations, 2023
 - Maintenance of Standards of Medical Education Regulations, 2023
 - NMC (MSR) for Establishment of New Medical College/ increase of seats in MBBS course, Guidelines, 2023
 - Establishment of Medical institutions, Assessment & Rating Regulations, 2023".
 - Guidelines for Under Graduate Courses under Establishment of New Medical Institutions, Starting of New Medical Courses, Increase of Seats for Existing Courses & Assessment and Rating Regulations, 2023".

I congratulate Prof. Yogender Malik and his team to take up this Herculean task and bring forth a 'Users' guide' which will be very useful to the students, to the faculty, to the academia at large, to the friends involved in legal system and will also be a window to the world for understanding and following Indian Medical Education, particularly when WFME has accredited NMC for the coming ten years.

Place: New Delhi
Date: 22nd November, 2023



राष्ट्रीय आयुर्विज्ञान आयोग

भारत सरकार

National Medical Commission
Government of India

Aruna V. Vanikar

(Dr. Aruna V. Vanikar)
President (UGMEB)



डॉ. योगेन्द्र मालिक

Dr. Yogender Malik

सदस्य/Member

आचार और चिकित्सा पंजीकरण बोर्ड

Ethics & Medical Registration Board

राष्ट्रीय आयुर्विज्ञान आयोग

भारत सरकार

National Medical Commission
Government of India

From Editor's Desk

In releasing this Compendium, I am extremely grateful for the help, expertise and inspiration to our Hon'ble Chairman-Dr.B.N .Gangadhar, along with Dr.ArunaV.Vanikar-President, Under-Graduate Medical Education Board; Dr.Vijay Oza, President, Post-Graduate Medical Education Board; and Secretary, NMC.



The need for the compendium was felt not only by Members of NMC but also by officers working in NMC and Boards. Even stakeholders from public wanted authentic information online. So, this compendium as one of the most genuine, informative and up to date book for the Registered Medical Practitioners, medical institutions/ organizations, general public and other stakeholders.

I once again appreciate and thank the Govt. departments/ Ministries, and also to our Publication Division staff in helping us making this a reality.

I hope that the associated Boards and agencies will continue to extend their co-operation and shall also provide us their full co-operation, for the benefit of all in future too.

Yogender Malik
(Dr. Yogender Malik) 06.12.2023

Member EMRB and Head
Publication & Media Division
National Medical Commission

Pocket-I4, Sector-8, Dwarka, Phase-I, New Delhi-II 0077

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Volume 01:
National
Eligibility cum
Entrance Test
(NEET)

NMC Compendium 2020-2023 – Volume 1

NATIONAL ELIGIBILITY CUM ENTRANCE TEST (NEET)			
S. no.	Area	Page No.	Subheading
1.	Details of students admitted through NEET PG 2022 dated 14.06.2023	1	Circular
2.	Details of students admitted through NEET PG and NEET SS. dated 30.06.2023	2	Circular
3.	Online Counselling for NEET PG Courses dated 24.07.2023	3	Circular
4.	NEET PG Counselling Schedule for the academic year 2023 for All India Quota & State Quota-reg dated 25.07.2023	4-5	Circular
5.	NEET UG Counselling Schedule for the academic year 2023 for ALL India Quota & State Quota- reg. dated 27.07.2023	6-7	Circular
6.	NEET UG syllabus for 2024 dated 06.10.2023	8-23	Circular
7.	Biology as additional subject for NEET UG eligibility dated 22.11.2023	24-26	Circular



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ई-मेल/E-mail : pgmeb.section@nmc.org.in

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राष्ट्रीय आयुर्विज्ञान आयोग
National Medical Commission
स्नातकोत्तर आयुर्विज्ञान शिक्षा बोर्ड
Post Graduate Medical Education Board (PGMEB)

No. N-P018(14)/1/2023-PGMEB

Date: 14/6/2023

PUBLIC NOTICE

Subject: Details of students admitted through NEET PG 2022.

To facilitate the aspiring medical students seeking admission in PG Medical courses and State Medical Councils for registration of additional qualification, the details of candidates admitted through NEET PG 2022 examination are being uploaded on the NMC website.

2. The details may be seen on the NMC website -> Information Desk -> Circulars/Public Notice.



(Aujender Singh)
Deputy Secretary, PGMEB

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National Medical Commission
स्नातकोत्तर आयुर्विज्ञान शिक्षा बोर्ड
Post Graduate Medical Education Board (PGMEB)

No. N-P018(14)/1/2023-PGMEB

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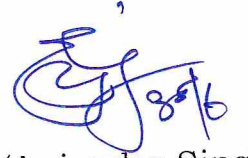
Date: 30/6/23

PUBLIC NOTICE

Subject: Details of students admitted through NEET PG and NEET SS.

The details of candidates admitted through NEET SS 2022, NEET SS 2021, NEET PG 2021 and NEET PG 2020 examination may be seen on the NMC website -> Information Desk -> Circulars/Public Notice.

2. It may be noted that the details are strictly as per the information provided by the respective Medical Colleges/Institutes through Online portal on NMC.



(Aujender Singh)

Deputy Secretary, PGMEB

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राष्ट्रीय आयुर्विज्ञान आयोग
National Medical Commission
स्नातकोत्तर आयुर्विज्ञान शिक्षा बोर्ड
Post Graduate Medical Education Board (PGMEB)

File No. N-P018(20)/5/2023-PGMEB-NMC

Date:

24-7-23

To,

1. Principal Secretary of Health of all States/UTs
2. The Director, Directorate of Medical Education of all States/UTs/Medical Counselling Authority.

Subject: Online Counselling for NEET PG courses.

Dear Sir/Madam,

As per the Orders of Hon'ble Supreme Court of India in I.A. No. 132614/2022 in WP(C) 267/2017, the Medical Counselling Committee (MCC) of DGHS, Ministry of Health & Family Welfare shall conduct Online Counselling for stray vacancy round for 100% seats in Deemed Universities in UG & PG courses.

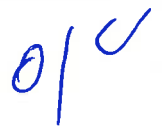
2. All the State Counselling Agencies are requested to make necessary arrangement for conducting the counselling in online mode, for all rounds including stray vacancy round in Private Medical Colleges, from the academic year 2023-24. No College/Institute should conduct the counselling, including the stray vacancy round, in physical mode.
3. It will help in tackling the issue of seat blocking & complaints/court cases related to counselling.
4. This issues with the approval of Competent Authority.

Yours faithfully,



(Aujender Singh)

Deputy Secretary, PGMEB





By E-mail/Urgent
Date.25.07.2023

F.No U-12021/ 02/ 2023- MEC

To,

Dr. Vijay Oza,
President PG Board,
Pocket 14, Sector 8
Dwarka, New Delhi- 110077.
Email: pgmeb@nmc.org.in

Sub: Ratification of NEET PG Counselling Schedule for the academic year 2023 for All India Quota & State Quota- reg.

Sir,

I am directed to refer to the subject matter mentioned above. In this regard, it is mentioned that the Schedule of NEET-PG counselling for the academic year 2023 to be conducted by MCC of DGHS, the State PG Counselling to be conducted by respective state counselling authorities and PG Information Bulletin/ Scheme as approved by the competent authority are being sent to you.

In view of the above, you are requested to upload the state PG Counselling schedule on NMC website for faithful obedience of the same by the states. Also, NMC may approach Hon'ble Supreme Court in the matter of Ashish Ranjan vs. UOI & ors. (W.P © No. 76 of 2015) for ratification of the schedule and the Information Bulletin of NEET PG Counselling 2023 as per NMC Act.

This issues with the approval of competent authority.

Yours Faithfully,

Director Prof. (Dr.) B. Srinivas
DDG(ME)
Tel. 23061110
E-Mail:- adgme@nic.in

Copy To:

1. Chairman, MCC
2. JD (ME)
3. Secretary NMC Email Id: secyoffice-nmc@nic.in
4. Mr. Aujender Singh, Deputy Director, PG Board NMC, Email Id: aujender.singh@nic.in

NEET-PG SCHEDULE- 2023

All India Quota/Deemed/Central/PG-DNB/State Quota for MD/ MS/ Diploma/ MDS / PG DNB Courses

S.No.	Admission	All India Quota/ Deemed & Central Universities/ PG DNB Institutes	Sharing of Joined candidates Data by MCC	State Counselling	Sharing of Joined candidates Data by states
1	Ist Round of Counselling	27th July to 5th Aug., 2023	---	5th Aug., to 16th Aug., 2023	---
2	Last date of Joining	13th Aug., 2023	16th Aug., 2023	20th Aug, 2023	21st Aug, 2023
3	2 nd round of Counselling	17th Aug. to 25th Aug., 2023	---	25th Aug., to 6th Sept., 2023	---
4	Last date of joining	4th Sept., 2023	6th Sept., 2023	11th Sept., 2023	12th Sept., 2023
5	Round-3	7th Sept., 2023 to 16th Sept., 2023		16th Sept., to 26th Sept., 2023	
6	Last date of joining	25th Sept., 2023	26th Sept., 2023	30th Sept., 2023	1st Oct., 2023
7.	Stray Vacancy	28th Sept., 2023 to 4th Oct., 2023	—	1st Oct., to 10th Oct., 2023	—
8.	Last date of joining	10th Oct., 2023		10th Oct., 2023	
9.	Last date of PG Counselling 2023	10th Oct., 2023			
10.	Commencement of Academic Session for PG Courses	5th Sept., 2023			

Note: For ensuring faithful obedience of time schedule and also keeping in view the limited time available for conducting counselling, all participating institutes/colleges are directed to treat all Saturdays/ Sundays and Gazetted Holidays as working days.

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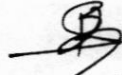
राष्ट्रीय आयुर्विज्ञान आयोग
National Medical Commission
(Undergraduate Medical Education Board)

No. U-15029/37/2023-UGMEB

Dated ,the 27th July, 2023

PUBLIC NOTICE

NEET-UG Counseling Schedule for the Academic Year 2023 for All India Quota & State Quota, received from Directorate General of Health Services, Government of India, Nirman Bhawan, New Delhi, is attached with this Public Notice for necessary action by all participating institutes/colleges. For ensuring faithful obedience of time schedule and also keeping in view the limited time available for conducting counseling, all participating institutes/colleges are directed to treat all Saturdays/Sundays and Gazetted Holidays as working days.


27/7/2023
(Shambhu Sharan Kumar)
Director, UGMEB

NEET-UG SCHEDULE-2023

All India Quota/Deemed/Central/AIIMS/JIPMER Seats/State Quota

S.No.	Schedule for Admission	Central Counseling	State Counseling
		All India Quota/Deemed/ Central Universities & Institutes	
1	1 st Round of Counseling	20 th July-28 th July, 2023	25 th July-4 th Aug., 2023
2	Last date of joining	4 th Aug., 2023	8 th Aug., 2023
3	2 nd round of Counseling	9 th Aug., to 17 th Aug., 2023	14 th Aug., to 28 th Aug., 2023
4	Last date of joining	28 th Aug., 2023	4 th Sept., 2023
5	Round-3	31 st Aug., to 7 th Sept., 2023	7 th Sept., to 18 th Sept., 2023
6	Last date of joining	18 th Sept., 2023	21 st Sept., 2023
7	Round- 4 (Final)	21 st Sept., to 25 th Sept., 2023	23 rd Sept., to 27 th Sept., 2023
8	Last date of joining	30 th Sept., 2023	30 th Sept., 2023
9	Commencement of Academic Session for UG Courses	1 st Sept., 2023	

Note : For ensuring faithful obedience of time schedule and also keeping in view the limited time available for conducting counseling, all participating institutes/colleges are directed to treat all Saturdays/Sundays and Gazetted Holidays as working days.

दूरभाष/Phone : 25367033, 25367035, 25367036 फेक्स/Fax : 0091-11-25367024 ई-मेल/E-mail : ug@nmc.org.in ,	पॉकेट -14, सेक्टर-8, द्वारका, फेस-1, नई दिल्ली-77 Pocket- 14, Sector- 8, Dwarka, Phase – 1, New Delhi-77
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राष्ट्रीय आयुर्विज्ञान आयोग
National Medical Commission
(Undergraduate Medical Education Board)

No.U-14023/19/2023-UGMEB

06.10.2023

PUBLIC NOTICE

It is notified to all the stakeholders especially to the aspiring candidates that the Under Graduate Medical Education Board, an autonomous body under National Medical Commission has finalised the NEET (UG)-2024 syllabus.

2. The same has been uploaded on NMC's website for the reference of the public at large. The stakeholders are advised to refer to the updated syllabus for NEET (UG)-2024 for the preparation of the study material and for preparation of NEET (UG) examinations for academic session 2024-25.

3. This issues with the approval of competent authority.


6/10/2023
(Shambhu Sharan Kumar)
Director, UGMEB

SYLLABUS FOR NEET (UG) - 2024

PHYSICS

UNIT 1: PHYSICS AND MEASUREMENT

Units of measurements, System of Units, , S I Units, fundamental and derived units, least count, significant figures, Errors in measurements , Dimensions of Physics quantities, dimensional analysis, and its applications.

UNIT 2: KINEMATICS

The frame of reference, motion in a straight line, Position- time graph, speed and velocity; Uniform and non-uniform motion, average speed and instantaneous velocity, uniformly accelerated motion, velocity-time, position-time graph, relations for uniformly accelerated motion, Scalars and Vectors, Vector. Addition and subtraction, , scalar and vector products, Unit Vector, Resolution of a Vector. Relative Velocity, Motion in a plane, Projectile Motion, Uniform Circular Motion.

UNIT 3: LAWS OF MOTION

Force and inertia, Newton's First law of motion; Momentum, Newton's Second Law of motion, Impulses; Newton's Third Law of motion. Law of conservation of linear momentum and its applications. Equilibrium of concurrent forces.

Static and Kinetic friction, laws of friction, rolling friction.

Dynamics of uniform circular motion: centripetal force and its applications: vehicle on a level circular road, vehicle on a banked road.

UNIT 4: WORK, ENERGY, AND POWER

Work done by a constant force and a variable force; kinetic and potential energies, work-energy theorem, power.

The potential energy of spring conservation of mechanical energy, conservative and non-conservative forces; motion in a vertical circle: Elastic and inelastic collisions in one and two dimensions.

UNIT5: ROTATIONAL MOTION

Centre of the mass of a two-particle system, Centre of the mass of a rigid body; Basic concepts of rotational motion; moment of a force; torque, angular momentum, conservation of angular momentum and its applications;

The moment of inertia, the radius of gyration, values of moments of inertia for simple geometrical objects, parallel and perpendicular axes theorems, and their applications. Equilibrium of rigid bodies, rigid body rotation and equations of rotational motion , comparison of linear and rotational motions.

UNIT 6: GRAVITATION

The universal law of gravitation. Acceleration due to gravity and its variation with altitude and depth. Kepler's law of planetary motion. Gravitational potential energy; gravitational potential. Escape velocity, Motion of a satellite, orbital velocity, time period and energy of satellite.

UNIT 7: PROPERTIES OF SOLIDS AND LIQUIDS

Elastic behaviour, Stress-strain relationship, Hooke's Law. Young's modulus, bulk modulus, modulus of rigidity. Pressure due to a fluid column; Pascal's law and its applications. Effect of gravity on fluid pressure.

Viscosity. Stokes' law. terminal velocity, streamline, and turbulent flow. critical velocity. Bernoulli's principle and its applications.

Surface energy and surface tension, angle of contact, excess of pressure across a curved surface, application of surface tension - drops, bubbles, and capillary rise. Heat, temperature, thermal expansion; specific heat capacity, calorimetry; change of state, latent heat. Heat transfer - conduction, convection, and radiation.

UNIT 8: THERMODYNAMICS

Thermal equilibrium, zeroth law of thermodynamics, the concept of temperature. Heat, work, and internal energy. The first law of thermodynamics, isothermal and adiabatic processes.

The second law of thermodynamics: reversible and irreversible processes.

UNIT 9: KINETIC THEORY OF GASES

Equation of state of a perfect gas, work done on compressing a gas, Kinetic theory of gases - assumptions, the concept of pressure. Kinetic interpretation of temperature: RMS speed of gas molecules: Degrees of freedom. Law of equipartition of energy and applications to specific heat capacities of gases; Mean free path. Avogadro's number.

UNIT 10: OSCILLATIONS AND WAVES

Oscillations and periodic motion - time period, frequency, displacement as a function of time. Periodic functions. Simple harmonic motion (S.H.M.) and its equation; phase: oscillations of a spring - restoring force and force constant: energy in S.H.M. - Kinetic and potential energies; Simple pendulum - derivation of expression for its time period:

Wave motion. Longitudinal and transverse waves, speed of travelling wave. Displacement relation for a progressive wave. Principle of superposition of waves, reflection of waves. Standing waves in strings and organ pipes, fundamental mode and harmonics. Beats.

UNIT 11: ELECTROSTATICS

Electric charges: Conservation of charge. Coulomb's law forces between two point charges, forces between multiple charges: superposition principle and continuous charge distribution.

Electric field: Electric field due to a point charge, Electric field lines. Electric dipole, Electric field due to a dipole. Torque on a dipole in a uniform electric field.

Electric flux. Gauss's law and its applications to find field due to infinitely long uniformly charged straight wire, uniformly charged infinite plane sheet, and uniformly charged thin spherical shell. Electric potential and its calculation for a point charge, electric dipole and system of charges; potential difference, Equipotential surfaces, Electrical potential energy of a system of two point charges and of electric dipole in an electrostatic field.

Conductors and insulators. Dielectrics and electric polarization, capacitors and capacitances,, the combination of capacitors in series and parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates. Energy stored in a capacitor.

UNIT 12: CURRENT ELECTRICITY

Electric current. Drift velocity, mobility and their relation with electric current.. Ohm's law. Electrical resistance.. V-I characteristics of Ohmic and non-ohmic conductors. Electrical energy and power. Electrical resistivity and conductivity. Series and parallel combinations of resistors; Temperature dependence of resistance.

Internal resistance, potential difference and emf of a cell, a combination of cells in series and parallel. Kirchhoff's laws and their applications. Wheatstone bridge. Metre Bridge.

UNIT 13: MAGNETIC EFFECTS OF CURRENT AND MAGNETISM

Biot - Savart law and its application to current carrying circular loop. Ampere's law and its applications to infinitely long current carrying straight wire and solenoid. Force on a moving charge in uniform magnetic and electric fields.

Force on a current-carrying conductor in a uniform magnetic field. The force between two parallel currents carrying conductors-definition of ampere. Torque experienced by a current loop in a uniform magnetic field: Moving coil galvanometer, its sensitivity, and conversion to ammeter and voltmeter.

Current loop as a magnetic dipole and its magnetic dipole moment. Bar magnet as an equivalent solenoid, magnetic field lines; Magnetic field due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis. Torque on a magnetic dipole in a uniform magnetic field. Para-, dia- and ferromagnetic substances with examples, effect of temperature on magnetic properties.

UNIT 14: ELECTROMAGNETIC INDUCTION AND ALTERNATING CURRENTS

Electromagnetic induction: Faraday's law. Induced emf and current: Lenz's Law, Eddy currents. Self and mutual inductance. Alternating currents, peak and RMS value of alternating current/ voltage: reactance and impedance: LCR series circuit, resonance: power in AC circuits, wattless current. AC generator and transformer.

UNIT 15: ELECTROMAGNETIC WAVES

Displacement current. Electromagnetic waves and their characteristics, Transverse nature of electromagnetic waves, Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet. X-rays. Gamma rays), Applications of e.m. waves.

UNIT 16: OPTICS

Reflection of light, spherical mirrors, mirror formula. Refraction of light at plane and spherical surfaces, thin lens formula and lens maker formula. Total internal reflection and its applications.

. Magnification. Power of a Lens. Combination of thin lenses in contact. Refraction of light through a prism. Microscope and Astronomical Telescope (reflecting and refracting) and their magnifying powers.

Wave optics: wavefront and Huygens' principle. Laws of reflection and refraction using Huygens principle. Interference, Young's double-slit experiment and expression for fringe width, coherent sources, and sustained interference of light. Diffraction due to a single slit, width of central maximum.. Polarization, plane-polarized light: Brewster's law, uses of plane-polarized light and Polaroid.

UNIT 17: DUAL NATURE OF MATTER AND RADIATION

Dual nature of radiation. Photoelectric effect. Hertz and Lenard's observations; Einstein's photoelectric equation: particle nature of light. Matter waves-wave nature of particle, de Broglie relation..

UNIT 18: ATOMS AND NUCLEI

Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model, energy levels, hydrogen spectrum. Composition and size of nucleus, atomic masses, Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number, nuclear fission, and fusion.

UNIT 19: ELECTRONIC DEVICES

Semiconductors; semiconductor diode: I-V characteristics in forward and reverse bias; diode as a rectifier; I-V characteristics of LED. the photodiode, solar cell, and Zener diode; Zener diode as a voltage regulator.. Logic gates (OR. AND. NOT. NAND and NOR).

UNIT 20: EXPERIMENTAL SKILLS

Familiarity with the basic approach and observations of the experiments and activities:

1. Vernier calipers-its use to measure the internal and external diameter and depth of a vessel.
2. Screw gauge-its use to determine thickness/ diameter of thin sheet/wire.
3. Simple Pendulum-dissipation of energy by plotting a graph between the square of amplitude and time.
4. Metre Scale - the mass of a given object by the principle of moments.
5. Young's modulus of elasticity of the material of a metallic wire.
6. Surface tension of water by capillary rise and effect of detergents,
7. Co-efficient of Viscosity of a given viscous liquid by measuring terminal velocity of a given spherical **body**,
8. Speed of sound in air at room temperature using a resonance tube,
9. Specific heat capacity of a given (i) solid and (ii) liquid by method of mixtures.
10. The resistivity of the material of a given wire using a metre bridge.
11. The resistance of a given wire using Ohm's law.
12. Resistance and figure of merit of a galvanometer by half deflection method.
13. The focal length of;
 - (i) Convex mirror
 - (ii) Concave mirror, and
 - (ii) Convex lens, using the parallax method.
14. The plot of the angle of deviation vs angle of incidence for a triangular prism.

15. Refractive index of a glass slab using a travelling microscope.
16. Characteristic curves of a p-n junction diode in forward and reverse bias.
17. Characteristic curves of a Zener diode and finding reverse break down voltage.
18. Identification of Diode, LED, Resistor, A capacitor from a mixed collection of such items.

CHEMISTRY

PHYSICAL CHEMISTRY

UNIT 1: SOME BASIC CONCEPTS IN CHEMISTRY

Matter and its nature, Dalton's atomic theory: Concept of atom, molecule, element, and compound:: Laws of chemical combination; Atomic and molecular masses, mole concept, molar mass, percentage composition, empirical and molecular formulae: Chemical equations and stoichiometry.

UNIT 2: ATOMIC STRUCTURE

Nature of electromagnetic radiation, photoelectric effect; Spectrum of the hydrogen atom. Bohr model of a hydrogen atom - its postulates, derivation of the relations for the energy of the electron and radii of the different orbits, limitations of Bohr's model; Dual nature of matter, de Broglie's relationship. Heisenberg uncertainty principle. Elementary ideas of quantum mechanics, quantum mechanics, the quantum mechanical model of the atom, its important features. Concept of atomic orbitals as one-electron wave functions: Variation of Ψ and Ψ^2 with r for 1s and 2s orbitals; various

quantum numbers (principal, angular momentum, and magnetic quantum numbers) and their significance; shapes of s, p, and d - orbitals, electron spin and spin quantum number: Rules for filling electrons in orbitals – Aufbau principle. Pauli's exclusion principle and Hund's rule, electronic configuration of elements, extra stability of half-filled and completely filled orbitals.

UNIT 3: CHEMICAL BONDING AND MOLECULAR STRUCTURE

Kossel - Lewis approach to chemical bond formation, the concept of ionic and covalent bonds.

Ionic Bonding: Formation of ionic bonds, factors affecting the formation of ionic bonds; calculation of lattice enthalpy.

Covalent Bonding: Concept of electronegativity. Fajan's rule, dipole moment: Valence Shell Electron Pair Repulsion (VSEPR) theory and shapes of simple molecules.

Quantum mechanical approach to covalent bonding: Valence bond theory - its important features, the concept of hybridization involving s, p, and d orbitals; Resonance.

Molecular Orbital Theory - Its important features. LCAOs, types of molecular orbitals (bonding, antibonding), sigma and pi-bonds, molecular orbital electronic configurations of homonuclear diatomic molecules, the concept of bond order, bond length, and bond energy.

Elementary idea of metallic bonding. Hydrogen bonding and its applications.

UNIT 4: CHEMICAL THERMODYNAMICS

Fundamentals of thermodynamics: System and surroundings, extensive and intensive properties, state functions, types of processes.

The first law of thermodynamics - Concept of work, heat internal energy and enthalpy, heat capacity, molar heat capacity; Hess's law of constant heat summation; Enthalpies of bond

dissociation, combustion, formation, atomization, sublimation, phase transition, hydration, ionization, and solution.

The second law of thermodynamics - Spontaneity of processes; ΔS of the universe and ΔG of the system as criteria for spontaneity. ΔG° (Standard Gibbs energy change) and equilibrium constant.

UNIT 5: SOLUTIONS

Different methods for expressing the concentration of solution - molality, molarity, mole fraction, percentage (by volume and mass both), the vapour pressure of solutions and Raoult's Law - Ideal and non-ideal solutions, vapour pressure - composition, plots for ideal and non-ideal solutions; Colligative properties of dilute solutions - a relative lowering of vapour pressure, depression of freezing point, the elevation of boiling point and osmotic pressure; Determination of molecular mass using colligative properties; Abnormal value of molar mass, van't Hoff factor and its significance.

UNIT 6: EQUILIBRIUM

Meaning of equilibrium, the concept of dynamic equilibrium.

Equilibria involving physical processes: Solid-liquid, liquid - gas and solid-gas equilibria, Henry's law. General characteristics of equilibrium involving physical processes.

Equilibrium involving chemical processes: Law of chemical equilibrium, equilibrium constants (K_p and K_c) and their significance, the significance of ΔG and ΔG° in chemical equilibrium, factors affecting equilibrium concentration, pressure, temperature, the effect of catalyst; Le Chatelier's principle.

Ionic equilibrium: Weak and strong electrolytes, ionization of electrolytes, various concepts of acids and bases (Arrhenius, Bronsted - Lowry and Lewis) and their ionization, acid-base equilibria (including multistage ionization) and ionization constants, ionization of water. pH scale, common ion effect, hydrolysis of salts and pH of their solutions, the solubility of sparingly soluble salts and solubility products, buffer solutions.

UNIT 7: REDOX REACTIONS AND ELECTROCHEMISTRY

Electronic concepts of oxidation and reduction, redox reactions, oxidation number, rules for assigning oxidation number, balancing of redox reactions.

Electrolytic and metallic conduction, conductance in electrolytic solutions, molar conductivities and their variation with concentration: Kohlrausch's law and its applications.

Electrochemical cells - Electrolytic and Galvanic cells, different types of electrodes, electrode potentials including standard electrode potential, half - cell and cell reactions, emf of a Galvanic cell and its measurement: Nernst equation and its applications; Relationship between cell potential and Gibbs' energy change: Dry cell and lead accumulator; Fuel cells.

UNIT 8: CHEMICAL KINETICS

Rate of a chemical reaction, factors affecting the rate of reactions: concentration, temperature, pressure, and catalyst; elementary and complex reactions, order and molecularity of reactions, rate law, rate constant and its units, differential and integral forms of zero and first-order

reactions, their characteristics and half-lives, the effect of temperature on the rate of reactions, Arrhenius theory, activation energy and its calculation, collision theory of bimolecular gaseous reactions (no derivation).

INORGANIC CHEMISTRY

UNIT 9: CLASSIFICATION OF ELEMENTS AND PERIODICITY IN PROPERTIES

Modern periodic law and present form of the periodic table, s, p, d and f block elements, periodic trends in properties of elements atomic and ionic radii, ionization enthalpy, electron gain enthalpy, valence, oxidation states, and chemical reactivity.

UNIT 10: P- BLOCK ELEMENTS

Group -13 to Group 18 Elements

General Introduction: Electronic configuration and general trends in physical and chemical properties of elements across the periods and down the groups; unique behaviour of the first element in each group.

UNIT 11: d - and f- BLOCK ELEMENTS

Transition Elements

General introduction, electronic configuration, occurrence and characteristics, general trends in properties of the first-row transition elements - physical properties, ionization enthalpy, oxidation states, atomic radii, colour, catalytic behaviour, magnetic properties, complex formation, interstitial compounds, alloy formation; Preparation, properties, and uses of $K_2Cr_2O_7$, and $KMnO_4$.

Inner Transition Elements

Lanthanoids - Electronic configuration, oxidation states, and lanthanoid contraction.

Actinoids - Electronic configuration and oxidation states.

UNIT 12: CO-ORDINATION COMPOUNDS

Introduction to coordination compounds. Werner's theory; ligands, coordination number, denticity, chelation; IUPAC nomenclature of mononuclear co-ordination compounds, isomerism; Bonding-Valence bond approach and basic ideas of Crystal field theory, colour and magnetic properties; Importance of co-ordination compounds (in qualitative analysis, extraction of metals and in biological systems).

ORGANIC CHEMISTRY

UNIT 13: PURIFICATION AND CHARACTERISATION OF ORGANIC COMPOUNDS

Purification - Crystallization, sublimation, distillation, differential extraction, and chromatography - principles and their applications.

Qualitative analysis - Detection of nitrogen, sulphur, phosphorus, and halogens.

Quantitative analysis (basic principles only) - Estimation of carbon, hydrogen, nitrogen, halogens, sulphur, phosphorus.

Calculations of empirical formulae and molecular formulae: Numerical problems in organic quantitative analysis,

UNIT 14: SOME BASIC PRINCIPLES OF ORGANIC CHEMISTRY

Tetravalency of carbon: Shapes of simple molecules - hybridization (s and p): Classification of organic compounds based on functional groups: and those containing halogens, oxygen, nitrogen, and sulphur; Homologous series: Isomerism - structural and stereoisomerism.

Nomenclature (Trivial and IUPAC)

Covalent bond fission - Homolytic and heterolytic: free radicals, carbocations, and carbanions; stability of carbocations and free radicals, electrophiles, and nucleophiles.

Electronic displacement in a covalent bond

- Inductive effect, electromeric effect, resonance, and hyperconjugation.

Common types of organic reactions- Substitution, addition, elimination, and rearrangement.

UNIT 15: HYDROCARBONS

Classification, isomerism, IUPAC nomenclature, general methods of preparation, properties, and reactions.

Alkanes - Conformations: Sawhorse and Newman projections (of ethane): Mechanism of halogenation of alkanes.

Alkenes - Geometrical isomerism: Mechanism of electrophilic addition: addition of hydrogen, halogens, water, hydrogen halides (Markownikoffs and peroxide effect): Ozonolysis and polymerization.

Alkynes - Acidic character: Addition of hydrogen, halogens, water, and hydrogen halides: Polymerization.

Aromatic hydrocarbons - Nomenclature, benzene - structure and aromaticity: Mechanism of electrophilic substitution: halogenation, nitration.

Friedel - Craft's alkylation and acylation, directive influence of the functional group in mono-substituted benzene.

UNIT 16: ORGANIC COMPOUNDS CONTAINING HALOGENS

General methods of preparation, properties, and reactions; Nature of C-X bond; Mechanisms of substitution reactions.

Uses; Environmental effects of chloroform, iodoform freons, and DDT.

UNIT 17: ORGANIC COMPOUNDS CONTAINING OXYGEN

General methods of preparation, properties, reactions, and uses.

ALCOHOLS, PHENOLS, AND ETHERS

Alcohols: Identification of primary, secondary, and tertiary alcohols: mechanism of dehydration.

Phenols: Acidic nature, electrophilic substitution reactions: halogenation. nitration and sulphonation. Reimer - Tiemann reaction.

Ethers: Structure.

Aldehyde and Ketones: Nature of carbonyl group; Nucleophilic addition to $>C=O$ group, relative reactivities of aldehydes and ketones; Important reactions such as - Nucleophilic addition reactions (addition of HCN , NH_3 , and its derivatives), Grignard reagent; oxidation: reduction (Wolf Kishner and Clemmensen); the acidity of α -hydrogen. aldol condensation, Cannizzaro reaction. Haloform reaction, Chemical tests to distinguish between aldehydes and Ketones.

Carboxylic Acids

Acidic strength and factors affecting it,

UNIT 18: ORGANIC COMPOUNDS CONTAINING NITROGEN

General methods of preparation. Properties, reactions, and uses.

Amines: Nomenclature, classification structure, basic character, and identification of primary, secondary, and tertiary amines and their basic character.

Diazonium Salts: Importance in synthetic organic chemistry.

UNIT 19: BIOMOLECULES

General introduction and importance of biomolecules.

CARBOHYDRATES - Classification; aldoses and ketoses: monosaccharides (glucose and fructose) and constituent monosaccharides of oligosaccharides (sucrose, lactose, and maltose).

PROTEINS - Elementary Idea of α -amino acids, peptide bond, polypeptides. Proteins: primary, secondary, tertiary, and quaternary structure (qualitative idea only), denaturation of proteins, enzymes.

VITAMINS - Classification and functions.

NUCLEIC ACIDS - Chemical constitution of DNA and RNA.

Biological functions of nucleic acids.

Hormones (General introduction)

UNIT 20: PRINCIPLES RELATED TO PRACTICAL CHEMISTRY

Detection of extra elements (Nitrogen, Sulphur, halogens) in organic compounds; Detection of the following functional groups; hydroxyl (alcoholic and phenolic), carbonyl (aldehyde and ketones) carboxyl, and amino groups in organic compounds.

- The chemistry involved in the preparation of the following:

Inorganic compounds; Mohr's salt, potash alum.

Organic compounds: Acetanilide, p-nitro acetanilide, aniline yellow, iodoform.

- The chemistry involved in the titrimetric exercises – Acids, bases and the use of indicators, oxalic-acid vs KMnO_4 , Mohr's salt vs KMnO_4
- Chemical principles involved in the qualitative salt analysis:

Cations – Pb^{2+} , Cu^{2+} , Al^{3+} , Fe^{3+} , Zn^{2+} , Ni^{2+} , Ca^{2+} , Ba^{2+} , Mg^{2+} , NH_4^+

Anions- CO_3^{2-} , S^{2-} , SO_4^{2-} , NO_3^- , NO_2^- , Cl^- , Br^- , I^- (Insoluble salts excluded).

Chemical principles involved in the following experiments:

1. Enthalpy of solution of CuSO_4
2. Enthalpy of neutralization of strong acid and strong base.
3. Preparation of lyophilic and lyophobic sols.
4. Kinetic study of the reaction of iodide ions with hydrogen peroxide at room temperature.

BIOLOGY

UNIT 1: Diversity in Living World

- What is living? ; Biodiversity; Need for classification;; Taxonomy & Systematics; Concept of species and taxonomical hierarchy; Binomial nomenclature;
- Five kingdom classification; salient features and classification of Monera; Protista and Fungi into major groups; Lichens; Viruses and Viroids.
- Salient features and classification of plants into major groups-Algae, Bryophytes, Pteridophytes, Gymnosperms (three to five salient and distinguishing features and at least two examples of each category);
- Salient features and classification of animals-nonchordate up to phyla level and chordate up to classes level (three to five salient features and at least two examples).

UNIT 2: Structural Organisation in Animals and Plants

- Morphology and modifications; Tissues; Anatomy and functions of different parts of flowering plants: Root, stem, leaf, inflorescence- cymose and recemose, flower, fruit and seed (To be dealt along with the relevant practical of the Practical Syllabus) Family (malvaceae, Cruciferae, leguminosae, compositae, gramineae).
- Animal tissues; Morphology, anatomy and functions of different systems (digestive, circulatory, respiratory, nervous and reproductive) of an insect (Frog). (Brief account only)

UNIT 3: Cell Structure and Function

- Cell theory and cell as the basic unit of life; Structure of prokaryotic and eukaryotic cell; Plant cell and animal cell; Cell envelope, cell membrane, cell wall; Cell organelles-structure and function; Endomembrane system-endoplasmic reticulum, Golgi bodies, lysosomes, vacuoles; mitochondria, ribosomes, plastids, micro bodies; Cytoskeleton, cilia, flagella, centrioles (ultra structure and function); Nucleus-nuclear membrane, chromatin, nucleolus.
- Chemical constituents of living cells: Biomolecules-structure and function of proteins, carbohydrates, lipids, nucleic acids; Enzymes-types, properties, enzyme action, classification and nomenclature of enzymes
- Cell division: Cell cycle, mitosis, meiosis and their significance.

UNIT 4: Plant Physiology

- Photosynthesis: Photosynthesis as a means of Autotrophic nutrition; Site of photosynthesis take place; pigments involved in Photosynthesis (Elementary idea); Photochemical and biosynthetic phases of photosynthesis; Cyclic and non cyclic and

photophosphorylation; Chemiosmotic hypothesis; Photorespiration C3 and C4 pathways; Factors affecting photosynthesis.

- Respiration: Exchange gases; Cellular respiration-glycolysis, fermentation (anaerobic), TCA cycle and electron transport system (aerobic); Energy relations- Number of ATP molecules generated; Amphibolic pathways; Respiratory quotient.
- Plant growth and development: Seed germination; Phases of Plant growth and plant growth rate; Conditions of growth; Differentiation, dedifferentiation and redifferentiation; Sequence of developmental process in a plant cell; Growth regulators- auxin, gibberellin, cytokinin, ethylene, ABA;

UNIT 5: Human Physiology

- Breathing and Respiration: Respiratory organs in animals (recall only); Respiratory system in humans; Mechanism of breathing and its regulation in humans-Exchange of gases, transport of gases and regulation of respiration Respiratory volumes; Disorders related to respiration-Asthma, Emphysema, Occupational respiratory disorders.
- Body fluids and circulation: Composition of blood, blood groups, coagulation of blood; Composition of lymph and its function; Human circulatory system-Structure of human heart and blood vessels; Cardiac cycle, cardiac output, ECG, Double circulation; Regulation of cardiac activity; Disorders of circulatory system-Hypertension, Coronary artery disease, Angina pectoris, Heart failure.
- Excretory products and their elimination: Modes of excretion- Ammonotelism, ureotelism, uricotelism; Human excretory system-structure and function; Urine formation, Osmoregulation; Regulation of kidney function-Renin-angiotensin, Atrial Natriuretic Factor, ADH and Diabetes insipidus; Role of other organs in excretion; Disorders; Uraemia, Renal failure, Renal calculi, Nephritis; Dialysis and artificial kidney.
- Locomotion and Movement: Types of movement- ciliary, flagellar, muscular; Skeletal muscle- contractile proteins and muscle contraction; Skeletal system and its functions (To be dealt with the relevant practical of Practical syllabus); Joints; Disorders of muscular and skeletal system-Myasthenia gravis, Tetany, Muscular dystrophy, Arthritis, Osteoporosis, Gout.
- Neural control and coordination: Neuron and nerves; Nervous system in humans-central nervous system, peripheral nervous system and visceral nervous system; Generation and conduction of nerve impulse;
- Chemical coordination and regulation: Endocrine glands and hormones; Human endocrine system-Hypothalamus, Pituitary, Pineal, Thyroid, Parathyroid, Adrenal, Pancreas, Gonads; Mechanism of hormone action (Elementary Idea); Role of hormones as messengers and regulators, Hypo- and hyperactivity and related disorders (Common disorders e.g. Dwarfism, Acromegaly, Cretinism, goiter, exophthalmic goiter, diabetes, Addison's disease).

(Imp: Diseases and disorders mentioned above to be dealt in brief.)

UNIT 6: Reproduction

- Sexual reproduction in flowering plants: Flower structure; Development of male and female gametophytes; Pollination-types, agencies and examples; Outbreeding devices; Pollen-Pistil interaction; Double fertilization; Post fertilization events- Development of endosperm and embryo, Development of seed and formation of fruit; Special modes- apomixis, parthenocarpy, polyembryony; Significance of seed and fruit formation.
- Human Reproduction: Male and female reproductive systems; Microscopic anatomy of testis and ovary; Gametogenesis-spermatogenesis & oogenesis; Menstrual cycle; Fertilisation, embryo development upto blastocyst formation, implantation; Pregnancy and placenta formation (Elementary idea); Parturition (Elementary idea); Lactation (Elementary idea).
- Reproductive health: Need for reproductive health and prevention of sexually transmitted diseases (STD); Birth control-Need and Methods, Contraception and Medical Termination of Pregnancy (MTP); Amniocentesis; Infertility and assisted reproductive technologies – IVF, ZIFT, GIFT (Elementary idea for general awareness).

UNIT 7: Genetics and Evolution

- Heredity and variation: Mendelian Inheritance; Deviations from Mendelism- Incomplete dominance, Co-dominance, Multiple alleles and Inheritance of blood groups, Pleiotropy; Elementary idea of polygenic inheritance; Chromosome theory of inheritance; Chromosomes and genes; Sex determination-In humans, birds, honey bee; Linkage and crossing over; Sex linked inheritance-Haemophilia, Colour blindness; Mendelian disorders in humans-Thalassemia; Chromosomal disorders in humans; Down's syndrome, Turner's and Klinefelter's syndromes.
- Molecular basis of Inheritance: Search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging; DNA replication; Central dogma; Transcription, genetic code, translation; Gene expression and regulation- Lac Operon; Genome and human genome project; DNA finger printing, protein biosynthesis.
- Evolution: Origin of life; Biological evolution and evidences for biological evolution from Paleontology, comparative anatomy, embryology and molecular evidence); Darwin's contribution, Modern Synthetic theory of Evolution; Mechanism of evolution- Variation (Mutation and Recombination) and Natural Selection with examples, types of natural selection; Gene flow and genetic drift; Hardy-Weinberg's principle; Adaptive Radiation; Human evolution.

UNIT 8: Biology and Human Welfare

- Health and Disease; Pathogens; parasites causing human diseases (Malaria, Filariasis, Ascariasis, Typhoid, Pneumonia, common cold, amoebiasis, ring worm, dengue, chikungunya); Basic concepts of immunology-vaccines; Cancer, HIV and AIDS; Adolescence, drug and alcohol abuse. Tobacco abuse

- Microbes in human welfare: In household food processing, industrial production, sewage treatment, energy generation and as biocontrol agents and biofertilizers.

UNIT 9: Biotechnology and Its Applications

- Principles and process of Biotechnology: Genetic engineering (Recombinant DNA technology).
- Application of Biotechnology in health and agriculture: Human insulin and vaccine production, gene therapy; Genetically modified organisms-Bt crops; Transgenic Animals; Biosafety issues-Biopiracy and patents.

UNIT 10: Ecology and Environment

- Organisms and environment: Population interactions-mutualism, competition, predation, parasitism; Population attributes-growth, birth rate and death rate, age distribution.
- Ecosystem: Patterns, components; productivity and decomposition; Energy flow; Pyramids of number, biomass, energy
- Biodiversity and its conservation: Concept of Biodiversity; Patterns of Biodiversity; Importance of Biodiversity; Loss of Biodiversity; Biodiversity conservation; Hotspots, endangered organisms, extinction, Red Data Book, biosphere reserves, National parks and sanctuaries, Sacred Groves.

दूरभाष/Phone : 25367033, 25367035, 25367036 फेक्स/Fax : 0091-11-25367024 ई-मेल/E-mail : ug@nmc.org.in ,	पॉकेट -14, सेक्टर-8, द्वारका, फेस-1, नई दिल्ली-77 Pocket- 14, Sector- 8, Dwarka, Phase - 1, New Delhi-77
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राष्ट्रीय आयुर्विज्ञान आयोग
National Medical Commission
(Undergraduate Medical Education Board)

No. U -14021/12/UGMEB-2023

Dated 22.11.2023

PUBLIC NOTICE

1. The Under Graduate Medical Education Board being an Autonomous Board of the National Medical Commission is issuing the present Public Notice in view of the large number of queries / representations, as well as, the various pending court cases involving the common issue as addressed herein below.
2. The erstwhile Medical Council of India through the provisions of the Regulations on Graduate Medical Education, 1997 including the various amendments, under Chapter-II had regulated the admission & selection to MBBS course. The same included that candidates must have undergone 2 years of regular / continuous / coterminous study of the subjects of Physics, Chemistry, Biology / Biotechnology, in Class 11th & 12th with practical, alongwith English. The said 2 years study was required to be completed from regular schools and not from open schools or as private candidates. Further, the study of Biology / Biotechnology or any other requisite subject, could not be completed as an additional subject after passing Class 12th.
3. The aforesaid provisions had been challenged before the Hon'ble Delhi High Court and were quashed vide judgement dated 11.05.2018 passed in the case of Anshul Aggrawal Vs. Union of India & Ors.- W.P. (C) No. 1813 of 2018 & other connected matters and judgement dated 17.08.2017 passed in the case of Tanishq Gangwar & Ors. Vs. Union of India & Ors. - W.P. (C) No. 6773 of 2018 & other connected matters.
4. The aforesaid had a consequential bearing on the candidates seeking admission in Graduate / Primary Medical Courses in Foreign Medical Institutes due to the Statutory Regulations in

this regard i.e. the Eligibility Requirement for Taking Admission in an Undergraduate Medical Course in a Foreign Medical Institution Regulations, 2002 & the Screening Test Regulation, 2002.

5. In the aforementioned background, candidates had been debarred from NEET-UG Test as also their applications seeking Eligibility Certificate were rejected.
6. In the meanwhile, the National Medical Commission has framed the Graduate Medical Education Regulations, 2023 as notified on 02.06.2023. Regulation 11(b) provides that candidates who have passed 10+2 or its equivalent with the subjects of Physics, Chemistry, Biology / Biotechnology & English shall be eligible for appearing in NEET-UG. Therefore, after the framing of Graduate Medical Education Regulations, 2023 the earlier Regulations on Graduate Medical Education, 1997 including the various amendments stand repealed prospectively.
7. The National Medical Commission in its meeting held on 14.06.2023 after detailed deliberations while taking into consideration the New Education Policy, which permits great extent of flexibility in the study of various subjects in Class 12th, decided that the previous approach of the erstwhile Medical Council of India needs to be revisited by permitting candidates to undertaken study of the requisite subjects (Physics, Chemistry, Biology / Biotechnology alongwith English) even as additional subjects after passing Class 12th from duly recognized boards by the concerned Govt. Such candidates shall be permitted to appear in NEET-UG Test and resultantly also be eligible for grant of Eligibility Certificate.
8. The present decision shall be applicable retrospectively also on candidates whose applications for grant of Eligibility Certificate have been rejected on the grounds contemplated in the present public notice. However, for the purpose of appearing in NEET-UG, candidates who become eligible after the date of the present public notice, shall be permitted to appear in NEET-UG-2024. Further, court cases filed by MCI / NMC, as before any Hon'ble Court, in this regard shall be withdrawn and that the current position with the present public notice shall be explained in all pending litigations filed by candidates, against MCI / NMC, so that the same could be disposed at the earliest.
9. This issues with the approval of competent authority.

(Shambhu Sharan Kumar)
Director, UGMEB

Volume 01:
National Exit Test
(NE_xT)

NMC Compendium 2020-2023 – Volume 1

NATIONAL EXIT TEST (NExT)			
S. no.	Area	Page No.	Subheading
1.	Public notice on NExT dated 13.07.2023	1	Circular



No.Cdn.19012/15/2022/Coord-NMC
Government of India
National Medical Commission
Coordination & Vigilance Division

Pocket-14, Sector-8,
Dwarka,
New Delhi-110077.
Date: 13.7.2023

Public Notice

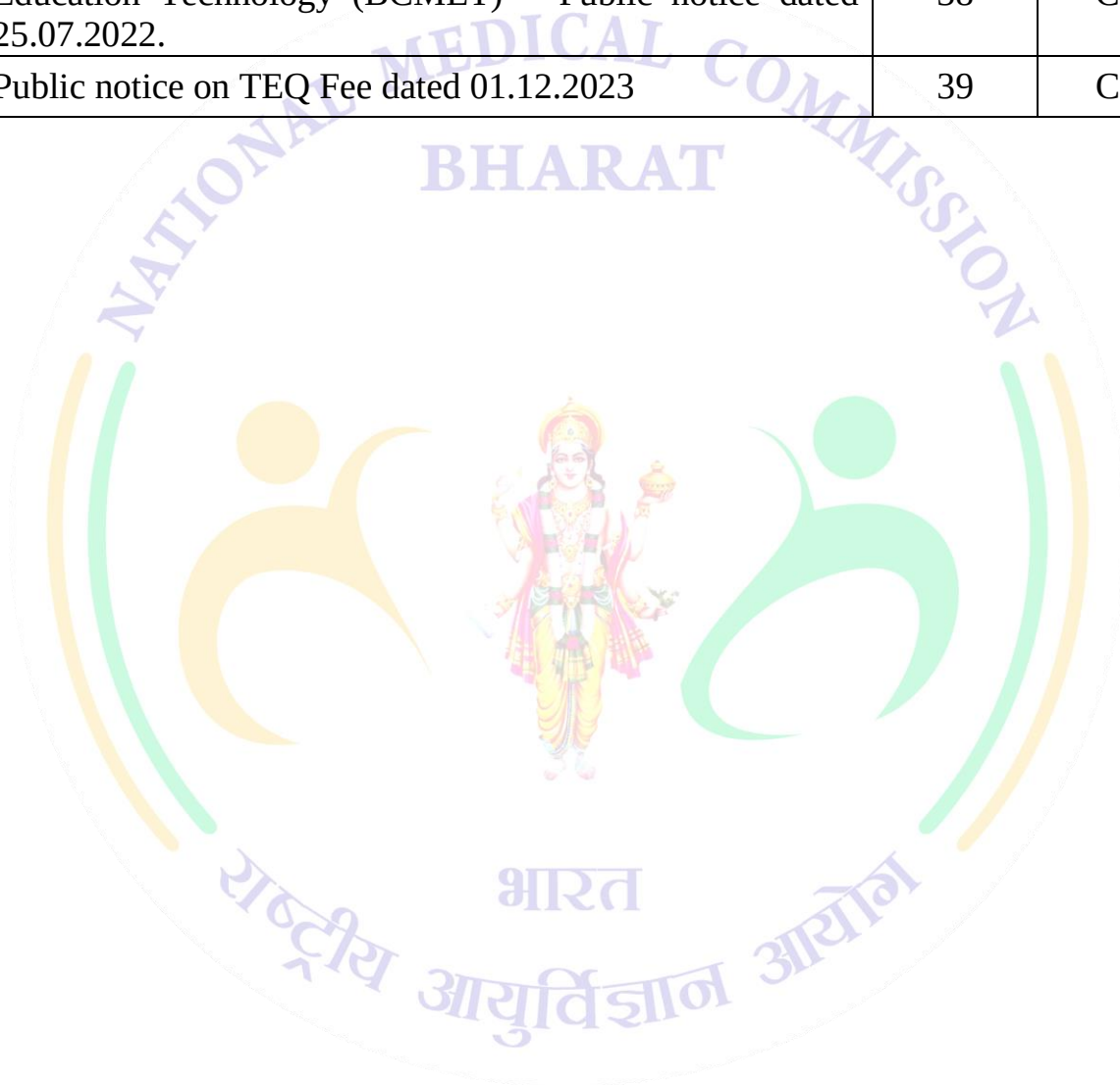
All the stakeholders are hereby informed that the National Exit Test (NExT) examination is deferred on the advice of the Ministry, dated 11.07.2023, till further directions from the Ministry of Health & Family Welfare.


13-07-23
(Dr. Pulkesh Kumar)
Secretary, NMC

Volume 01:
Teachers
Eligibility
Qualification

NMC Compendium 2020-2023 – Volume 1

Teachers Eligibility Qualification			
S. no.	Area	Page No.	Subheading
1.	Teachers Eligibility Qualifications (TEQ) Regulations, 2021- Seeking Comments dated 18.11.2021.	1-36	Circular
2.	Norms for Faculty Appointment and Promotion for the Post of professors - Provisional Relaxation dated 20.12.2021	37	Circular
3.	Relaxation for completion of Basic Course in Medical Education Technology (BCMET) – Public notice dated 25.07.2022.	38	Circular
4.	Public notice on TEQ Fee dated 01.12.2023	39	Circular



दूरभाष/Phone : 25367033, 25367035, 25367036
फैक्स/Fax : 0091-11-25367024

पॉकेट -14, सेक्टर-8, द्वारका, फेस-1, नई दिल्ली-77-
Pocket- 14, Sector- 8, Dwarka,
Phase - 1, New Delhi-77

राष्ट्रीय आयुर्विज्ञान आयोग
National Medical Commission
Postgraduate Medical Education Board

Public Notice

No.NMC/MCI-23(1)/2021-Med./

Date:- 18.11.2021

In accordance with Section 57(1) and Section 25(1) of the National Medical Commission Act, 2019, Draft Teachers Eligibility and Minimum Qualification in Medical Institution Regulations, 2021, were placed on the National Medical Commission's (NMC) on 05.10.2021.

2. All the stakeholders, including general public are once again requested to submit their comments, if any, on the Draft Regulation on the following emails at the earliest :

president.pgmeb@nmc.org.in and pgmeb@nmc.org.in.


(Dr. M.K. Ramesh)

President
PGMEB, National Medical Commission

NATIONAL MEDICAL COMMISSION

DRAFT TEACHERS ELIGIBILITY AND MINIMUM QUALIFICATIONS IN MEDICAL INSTITUTIONS REGULATIONS - 2021

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In exercise of the powers conferred by section 57 of the National Medical Commission Act, 2019, the National Medical Commission, hereby makes the following Regulations, namely:-

1. Short title and commencement:

- 1.1 These Regulations may be called the TEACHERS ELIGIBILITY AND MINIMUM QUALIFICATIONS IN MEDICAL INSTITUTIONS REGULATIONS – 2021.
- 1.2 They shall come into force on the date of their publication in the Official Gazette.

2. Objectives: Appointment and promotion of faculty in various teaching specialties imparting graduate and postgraduate medical education in Medical Institutions falling within the purview of the National Medical Commission, has to be in accordance with the minimum qualifications and experience prescribed in these Regulations, so as to maintain a standard of teaching in medical institutions.

3. General Norms for Appointment of Faculty in Medical Institutions: Every appointing authority before making an appointment to a teaching post in a medical college or institution shall observe the following norms:

- 3.1 All Medical Teachers must possess a basic University or equivalent qualification included in any one of the Schedules to the Indian Medical Council Act, 1956 (102 of 1956) and National Medical Commission Act, 2019. They must also be registered in a State Medical Register or National Medical Register, except in the case of teachers with non-medical qualifications.
- 3.2 The maximum age limit up to which a person can be appointed or granted extension or re-employed in service against the posts of Teachers or Deans or Principal or Director, as the case may be, which are required to be filled up as per the norms of the National Medical Commission in any Medical College or Teaching Institutions for imparting Graduate and Post-Graduate medical education shall be 70 years.
- 3.3 In the Departments of Anatomy, Physiology and Biochemistry, non-medical graduates having M.Sc. (Medical) granted by the University of Health Sciences or Medical Colleges as full time regular on campus course with Ph.D. qualification in the concerned medical subject from a recognized University, in the subject concerned, can be appointed as Assistant Professors. The proportion of non-medical teachers can be up to 15% of the total number of faculty posts in that Department. In the Department of Community Medicine, Assistant Professor in Statistics shall possess M.Sc. with Ph.D. qualification from a recognized University. A non-medical person cannot be appointed as Dean or Director or Principal or Medical Superintendent or Head of the Department.

Provided that non-medical graduates appointed as Assistant Professor in the subjects of Anatomy, Physiology, Biochemistry, Pharmacology and Microbiology on the basis of M.Sc. degree prior to the coming into force of Minimum Qualifications for Teachers in Medical Institution Regulations, 1998 on 05.12.1998, shall be eligible to be

considered as Assistant Professor. However, Ph.D. degree in concerned medical subject is essential for promotion to higher teaching position. Such persons shall also be eligible after their retirement to serve as faculty on the same position from which they had retired until the permissible age for serving in a Medical College.

- 3.4 The appointing authority may consider holders of equivalent postgraduate qualifications, which may be approved by the National Medical Commission from time to time, to be the requisite recognized qualification in the subject concerned.
- 3.5 In cases where candidates with requisite experience are not available, a reference may be made by the appointing authority to the National Medical Commission for consideration on merits.
- 3.6 The position of Dean/Director/Principal of Medical Institution should be held by a person possessing recognized postgraduate medical degree from a recognized institution with a minimum of ten years teaching experience as Professor/Associate Professor in a Medical College/ Institution, out of which at least five years should be as Professor in the Department. Appointment to these posts shall be made on seniority cum merit basis. The Dean/Director/Principal of Medical Institution shall not hold the post of HOD.
- 3.7 The Medical Superintendent of the affiliated teaching hospital shall possess a recognized postgraduate medical degree from a recognized Institution with a minimum of ten years teaching experience as Professor /Associate Professor in clinical department, out of which at least five years should be as Professor. Appointment to these posts shall be made on seniority cum merit basis. Medical Superintendent shall not occupy the position of the Head of the Department. However, he can head second or subsequent unit.
- 3.8 The position of Director of Standalone Postgraduate Broad Specialty Institution shall be held by a person possessing recognized postgraduate Degree from a recognized Institution with minimum of ten years teaching experience as Professor/Associate Professor, out of which, at least five years should be as Professor.
- 3.9 The position of Director of Standalone Postgraduate Super Specialty Institution shall be held by a person possessing recognized postgraduate Degree from a recognized institution with a minimum of ten years teaching experience as Professor/Associate Professor, out of which, at least five years should be as Professor.
- 3.10 Appointments to these administrative posts in Government Institutions including the in charge arrangements, amongst eligible candidates, shall be based on Inter se vertical seniority based on date of entry into the Institution/Service.
- 3.11 The post of Head of the Department in Medical Colleges/Institutions shall be on rotational basis for a period of three years amongst Professors.
- 3.12 Period spent by the teaching faculty towards acquisition of higher degree (Broad Specialty/Super Specialty) on concurrent duties/deputation shall not be counted as teaching experience for fulfilling eligibility criteria for promotion.
- 3.13 For holders of MD - Ph.D. in Medical Subjects, the period spent during Ph.D. shall be considered equivalent to Senior Resident period and they are eligible for direct appointment as Assistant Professors in the concerned subject.
- 3.14 The Statistician with MSc and PHD qualification, who has been appointed as Assistant Professor in the department of Community Medicine, may be given career progression. But, he cannot be the Head of the Department of Community Medicine.

4. Determination of equivalence of the qualification of DNB (Broad Specialties) with MD/MS and DNB (Super Specialties) with DM/M.Ch: The equivalence of Diplomate of National Board of Examination [DNB] (Broad Specialties) with MD/MS & DNB (Super-Specialties) with DM/MCh. shall be determined as under:-

- 4.1 Those candidates who have undergone DNB training in an institution which now runs NMC recognized postgraduate degree courses in a given subject, their DNB qualifications shall be considered at par with NMC recognized qualification in that subject only.
- 4.2 Those candidates who have undergone DNB training in a multi-specialty teaching hospital with at least 500 beds, involved in various postgraduate/super-specialty teaching programmes, such a qualification shall be considered at par with NMC recognized qualification.
- 4.3 Those candidates who have undergone DNB training in both Broad Specialty and Super-Specialty courses in other locations/Institutions (100 to 500 bedded hospitals) shall work for one additional year as a senior resident in a NMC recognized/permitted institution for equivalence with MD/MS/DM/M.Ch.
- 4.4 Those candidates who have undergone DNB training in both Broad Specialty and Super-Specialty courses from an Institution not covered in sub-clauses 4.1 to 4.3 shall work for two additional years as Senior Resident in a NMC recognized/permitted Medical College/Institution for equivalence with MD/MS/DM/M.Ch.
- 4.5 Furthermore, persons possessing DNB qualifications on the basis of which they have already been promoted as Associate Professor/Professor in the concerned Department shall be treated at par with MD/MS in the broad specialty and DM/M.Ch in Super Specialty without any further teaching experience.

5. Eligibility for being designated as Postgraduate Guide:

- 5.1 Broad Specialties: A teacher in a Medical College or Institution having a total of 5 years of teaching experience as Assistant Professor and above after obtaining post-graduation degree in the concerned broad specialty subject shall be recognized as Post Graduate Guide in that specialty, provided the department has been recognized/Permitted for conducting Postgraduate course in that subject.
- 5.2 Super Specialties: A teacher in a Medical College or Institution having a total of 3 years of teaching experience as Assistant Professor and above after obtaining the Super Specialty degree in the concerned super specialty subject, shall be recognized as Post Graduate Guide in that Super Specialty subject, provided the department has been recognized / permitted for conducting Super Specialty courses in that subject. Further, in the case of super specialty courses which were newly instituted, relaxation of qualification and experience for recognition as Post Graduate Guide granted by erstwhile MCI shall be continued for ten years from the date of start of the course by erstwhile MCI. This relaxation ceases to exist to all the existing super specialty courses once they complete ten years from the date on which they were started by erstwhile Medical Council of India. This provision is also applicable to the new courses to be instituted henceforth by National Medical Commission.

6. Norms for Faculty Appointment and Promotion:

The norms for Faculty Appointment and Promotion shall be as follows:

Table 1A. Norms for Faculty Appointment and Promotion in Broad Specialties (MD/MS) which are in existence for more than 10 years.

Posts	Academic Qualifications	Teaching and Research Experience
Professor 8 year post PG experience	MD/MS/DNB in the concerned subject.	i. Associate Professor in the subject for 3 years in a permitted/approved/recognized medical college/institution. ii. Should have at least four Research publications (at least two as Associate Professor) (only original papers, meta-analysis, systematic reviews, and case series that are published in journals included in Medline, PubMed Central, Science Citation Index, Science Citation Index Expanded, Embase, Scopus, Directory of Open Access Journals (DoAJ) will be considered). The teacher must be either one among the first three authors or the corresponding author. iii. Should have completed the Basic course in Medical Education Technology from Institution(s) designated by NMC. iv. Should have completed the Basic course in biomedical research from Institution(s) designated by NMC.
Associate Professor 5 years post PG experience	MD/MS/DNB in the concerned subject.	i. As Assistant Professor in the subject for 4 years in a permitted /approved /recognized medical college/institution. ii. Should have at least <u>two</u> Research publications (only original papers, meta-analysis, systematic reviews, and case series that are published in journals included in Medline, PubMed Central, Science Citation Index, Science Citation Index Expanded, Embase, Scopus, Directory of Open Access Journals (DoAJ) will be considered). The teacher must be either one among the first three authors or the corresponding author. iii. Should have completed the Basic course in Medical Education Technology from Institution(s)

Posts	Academic Qualifications	Teaching and Research Experience
		designated by NMC. iv. Should have completed the Basic course in biomedical research from Institution(s) designated by NMC.
Assistant Professor	MD/MS/DNB in the concerned subject.	One year as Senior Resident in the concerned subject in a recognized/approved/permitted medical college after acquiring MD/MS Degree.

Senior Resident (Broad Specialties)	Senior Resident is one who is doing his residency in the concerned post graduate subject after obtaining PG degree (MD/MS/DNB). The post of senior resident is a tenured position not exceeding 3 years. The graduate must be below 45 years of age at the time of initial appointment. The existing posts of Tutors/Demonstrators/Registrars in all the Departments shall be re designated as Senior Residents. Henceforth all the Departments in Broad Specialties including Pre – Clinical and Para – Clinical Departments will have the designation of Senior Resident. All other designations like Tutor/Demonstrator/Registrar or any other designation practiced earlier stands deleted. In the Departments of Anatomy, Physiology and Biochemistry, graduates with M.Sc. (Medical) qualifications in these subjects can also be appointed for the post of Senior Resident.
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Table 1B: Index of Broad Specialties in which Persons with non-Medical Qualifications may be appointed as Faculty (Assistant Professor and beyond)

S. No.	Name of the Specialty	Academic Qualification
1.	Anatomy	M.Sc. (Medical Anatomy) with Ph.D. in Medical Anatomy
2.	Biochemistry	M.Sc. (Medical Biochemistry) with Ph.D. in Medical Biochemistry

3.	Physiology	M.Sc. (Medical Physiology) with Ph.D. in Medical Physiology
5.	Statistics	M.Sc. (Statistics) with Ph.D. (Statistics)

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Table 1C. Norms for Faculty Appointment and Promotion in Broad Specialties (MD/MS) wherein the Broad Specialty Course was established by erstwhile MCI and is functional for less than Ten years and also for new Broad Specialty courses proposed to be instituted by National Medical Commission.

Posts	Academic Qualifications	Teaching and Research Experience
Professor	MD/MS/DNB in the concerned subject. OR <u>During Transition period of Ten Years</u> MD/MS/DNB in Broad specialty as provided in Table 11.A with three years Special Training in respective Broad specialty department in a teaching Institution/Centre of Excellence conferred by GOI/High volume Centers with dedicated service in that specialty.	(i) Associate Professor in the subject as mentioned in Table 11.A with experience of 3 years in a permitted/approved/recognized medical college/institution. (ii) Should have at least four Research publications (at least two as Associate Professor) (only original papers, meta-analysis, systematic reviews, and case series that are published in journals included in Medline, PubMed Central, Science Citation Index, Science Citation Index Expanded, Embase, Scopus, Directory of Open Access Journals (DoAJ) will be considered). The teacher must be either one among the first three authors or the corresponding author. (iii) Should have completed the NMC recognized Basic course in Medical Education Technology. (iv) Should have completed the Basic course in biomedical research from Institution(s) designated by NMC.
Associate Professor	MD/MS/DNB in the concerned subject OR <u>During Transition of Ten</u>	(i) As Assistant Professor in the subject as mentioned in Table 11.A for 4 years in a permitted/approved/recognized medical college/institution

Posts	Academic Qualifications	Teaching and Research Experience
	<u>Years period</u> MD/MS/DNB in Broad specialty as provided in Table 11.A with three years Special Training in respective Broad specialty department in a teaching Institution/Centre of Excellence conferred by GOI/High volume Centers with dedicated service	(ii) Should have at least two Research publications (only original papers, meta-analysis, systematic reviews, and case series that are published in journals included in Medline, Pubmed Central, Science Citation Index, Science Citation Index Expanded, Embase, Scopus, Directory of Open Access Journals (DoAJ) will be considered. The teacher must be either one among the first three authors or the corresponding author. (iii) Should have completed the Basic course in Medical Education Technology from Institution(s) designated by MCI. (iv) Should have completed the Basic course in biomedical research from Institution(s) designated by NMC.
Assistant Professor	MD/MS/DNB in the concerned subject and as per these Regulations. OR During Transition of Ten Years period MD/MS/DNB in Broad specialty as provided in Table 11.A with three years Special Training in respective Broad specialty department in a teaching Institution/Centre of Excellence conferred by GOI/High volume Centers with dedicated service	

Posts	Academic Qualifications	Teaching and Research Experience

Senior Resident (Broad Specialties)	MD/MS/DNB qualified graduates in that specialty The post of Senior Resident is a tenured position not exceeding 3 years. The graduate must be below 45 years of age at the time of initial appointment
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Table 2. Norms for Faculty Appointment and Promotion in the Department of Dentistry in a Medical College

Posts.	Academic Qualification	Teaching & Research Exp.
Professor	M.D.S.	i. Associate Professor in the subject for 3 years in a permitted/approved/ recognized medical/dental college/institution ii. Should have at least four Research publications (at least two as Associate Professor) (only original papers, meta-analysis, systematic reviews, and case series that are published in journals included in Medline, PubMed Central, Science Citation Index, Science Citation Index Expanded, Embase, Scopus, Directory of Open Access Journals (DoAJ) will be considered). The teacher must be either one among the first three authors or the corresponding author. iii. Should have completed the Basic course in Medical Education Technology from Institution(s) designated by NMC. iv. Should have completed the Basic course in biomedical research from Institution(s) designated by NMC.
Associate Professor	M.D.S.	i. As Assistant Professor in the subject for 4 years in a permitted/approved/recognized medical/dental college/institution

		ii. Should have at least two Research publications (only original papers, meta-analysis, systematic reviews, and case series that are published in journals included in Medline, PubMed Central, Science Citation Index, Science Citation Index Expanded, Embase, Scopus, Directory of Open Access Journals (DoAJ) will be considered). The teacher must be either one among the first three authors or the corresponding author iii. Should have completed the Basic course in Medical Education Technology from Institution(s) designated by NMC. iv. Should have completed the Basic course in biomedical research from Institution(s) designated by NMC.
Asst. Professor	M.D.S.	One year as Senior Resident/Registrar/Tutor in the concerned subject in a recognized/Permitted medical/dental college after acquiring MDS Degree.
Senior Resident	M.D.S.	Senior Resident is one who is doing his residency in Dentistry after obtaining MDS degree. The post of senior resident is a tenured position not exceeding 3 years. The graduate must be below 45 years of age at the time of initial appointment

Table 3 A. Norms for Faculty Appointment and Promotion in Super Specialties (DM/M.Ch) wherein the Super Specialty Course is established by erstwhile MCI and is functioning for more than Ten years.

Posts	Academic Qualifications	Teaching and Research Experience
Professor	DM/M.Ch./Super-speciality DNB in the concerned subject	(i) Associate Professor in the subject for 3 years in a permitted/approved/recognized medical college/institution. (ii) Should have at least four Research publications (at least two as Associate Professor) (only original papers, meta-analysis, systematic reviews, and case series that are published in journals included in Medline, PubMed Central, Science Citation Index, Science Citation Index Expanded, Embase, Scopus, Directory of Open Access Journals (DoAJ) will be considered). The teacher must be either one among the first three authors or the corresponding author. (iii) Should have completed the NMC recognized Basic course in Medical Education Technology. (iv) Should have completed the Basic course in biomedical research from Institution(s) designated by NMC.
Associate Professor	DM/M.Ch./Super-speciality DNB in the concerned subject	(i) As Assistant Professor in the subject for 2 years in a permitted/approved/recognized medical college/institution. (ii) Should have at least two Research publications (only original papers, meta-analysis, systematic reviews, and case series that are published in journals included in Medline, PubMed Central, Science Citation Index, Science Citation Index Expanded, Embase, Scopus, Directory of

Posts	Academic Qualifications	Teaching and Research Experience
		Open Access Journals (DoAJ) will be considered). The teacher must be either one among the first three authors or the corresponding author. (iii) Should have completed the Basic course in Medical Education Technology from Institution(s) designated by MCI. (iv) Should have completed the Basic course in biomedical research from Institution(s) designated by NMC.
Assistant Professor	DM/M.Ch./Super-speciality DNB in the concerned subject	
Senior Resident (Super Specialties)	Registered to pursue DM/MCh/ in the concerned subject.	

Table 3 B. Norms for Faculty Appointment and Promotion in Super Specialties (DM/M.Ch) wherein the Super Specialty Course is established by erstwhile MCI and is functional for less than Ten years and also for new courses proposed to be started by National Medical Commission.

Posts	Academic Qualifications	Teaching and Research Experience
Professor	DM/M.Ch./Super-speciality DNB in the concerned subject OR <u>During Transition period of Ten Years</u> MD/MS/DNB in concerned Broad specialty subject as provided in Table 11.B with three years Special Training in respective Broad specialty department in a teaching Institution/Centre of Excellence conferred by GOI/High volume Centers with dedicated service	(i) Associate Professor in the subject as mentioned in Table 11.C for 3 years in a permitted/approved/ recognized medical college/institution. (ii) Should have at least four Research publications (at least two as Associate Professor) (only original papers, meta-analysis, systematic reviews, and case series that are published in journals included in Medline, PubMed Central, Science Citation Index, Science Citation Index Expanded, Embase, Scopus, Directory of Open Access Journals (DoAJ) will be considered). The teacher must be either one among the first three authors or the corresponding author. (iii) Should have completed the NMC recognized Basic course in Medical Education Technology. (iv) Should have completed the Basic course in biomedical research from Institution(s) designated by NMC.
Associate Professor (or Reader)	DM/M.Ch./Super-speciality DNB in the concerned subject OR During Transition of Ten Years period MD/MS/DNB in concerned Broad specialty subject as provided in	(i) As Assistant Professor in the subject as mentioned in Table 11.C for 2 -years in a permitted/approved/ recognized medical college/institution (ii) Should have at least two Research publications (only original papers, meta-analysis, systematic reviews, and case series that are published in journals included in Medline,

Posts	Academic Qualifications	Teaching and Research Experience
	Table 11.B with three years Special Training in respective Broad specialty department in a teaching Institution/Centre of Excellence conferred by GOI/High volume Centers with dedicated service	PubMed Central, Science Citation Index, Science Citation Index Expanded, Embase, Scopus, Directory of Open Access Journals (DoAJ) will be considered). The teacher must be either one among the first three authors or the corresponding author. (iii) Should have completed the Basic course in Medical Education Technology from Institution(s) designated by MCI. (iv) Should have completed the Basic course in biomedical research from Institution(s) designated by NMC.
Assistant Professor	DM/M.Ch./Super-speciality DNB in the concerned subject OR During Transition of Ten Years period MD/MS/DNB in concerned Broad specialty subject as provided in Table 11.B with three years Special Training in respective Broad specialty department in a teaching Institution/Centre of Excellence conferred by GOI/High volume Centers with dedicated service	

Senior Resident (Super Specialties)	Registered to pursue DM/M.Ch in the concerned subject. OR
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	MD/MS/DNB qualified graduates in the concerned broad specialty and this post of senior resident is a tenured position not exceeding 3 years. The graduate must be below 45 years of age at the time of initial appointment.
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7. Appointment of Faculty during transition period.

- 7.1 The academic qualification for any new broad specialty or super specialty shall be the one shown at the time of notifying the new specialty. Persons appointed on the basis of the entry level qualification shall be eligible for promotion to the higher posts.
- 7.2 Persons appointed as teaching faculty during the transition period shall be eligible for promotion to the post of Associate Professor/ Professor even after the transition period of ten years are over. Such person shall also be entitled to hold the teaching position held by him until the age of 70 years in the same or any other recognized Medical Institution.
- 7.3 In the case of Broad Specialty / Super Specialty courses which were newly instituted, relaxation of qualification and experience for appointment as Faculty may be granted by the National Medical Commission for ten years from the date of start of the course by erstwhile MCI or proposed to be started by National Medical Commission. This relaxation ceases to exist to all the existing Broad Specialty / Super Specialty courses which have completed ten years from the date on which they were started by erstwhile Medical Council of India or proposed to be started by National Medical Commission.

8. Norms for Determination of Teaching Designations for Consultants/Specialists employed by Central Government or State Governments or Local Self-Government or Public Funded Institutions for establishing a Medical College/starting a Postgraduate course

8.1 New Medical College:

A non-teaching Consultant or Specialist, possessing postgraduate medical degree, working for at least two years in the concerned specialty in a minimum 330 bedded non-teaching Government Hospital shall be eligible to be designated as Assistant Professor and be absorbed permanently, if that Hospital is being converted into a Government Medical College for imparting undergraduate medical education. The subsequent promotions to higher teaching designations would be as per these regulations. Provided further that this would be only a one time provision and so absorbed teacher should not be transferred from that Institution for five years. The subsequent promotions to higher teaching designations and appointment of any faculty would be as per these regulations.

- 8.2 **Stand-alone Postgraduate medical institution:** Consultants or specialists having the required postgraduate degree and experience of working in the concerned specialty /super-specialty department for a period of not less than 2 years in the institution or hospital, not attached to any medical college, where postgraduate teaching is being imparted as per section 9.3 of the Post-graduate Medical Education Regulations, 2021, shall be eligible to be equated as an Assistant Professor in the department concerned. This has to be confirmed by the affiliating University. The subsequent promotions to higher teaching designations would be as per these regulations.

9. Norms for Determination of Teaching Designations for Consultants/Specialists in Medical Institutions of Defence Services:

- 9.1 For Professor. Specialist Medical Officers of the Armed Forces having minimum 8 years teaching experience after obtaining the requisite recognized post-graduate qualification in the subject of which at least as 3 years as Associate Professor in a teaching hospital of the Armed Forces, with two Research publications as per clause 6 can be considered eligible for appointment as Professor in the concerned subject.
- 9.2 For Associate Professor. Specialist Medical Officer of the Armed Forces having minimum 5 years teaching experience after obtaining the requisite recognized post-graduate qualification in the subject of which at least 4 years teaching experience as Assistant Professor in a teaching hospital of the Armed Forces with two Research publication as per clause 6 can be considered eligible for appointment as Associate Professor in the concerned subject.
- 9.3 For Assistant Professor. Specialist Medical Officers of the Armed Forces having minimum 1 year teaching experience after possessing requisite recognized post-graduate qualification in the subject, can be considered eligible for appointment as Assistant Professor in the concerned subject.

10. Visiting Faculty

- 10.1 **Objective:** With a view to enhance the comprehensiveness and quality of teaching of both Undergraduate and Postgraduate students in pre-clinical, para-clinical and clinical departments, Medical Colleges/Medical Institutions can appoint additional Faculty Members on part-time basis who would be known as “Visiting Faculty”. To encourage and facilitate the international collaborations, faculty and clinicians in reputed Institutions both in India and abroad with equivalent qualifications as outlined in Section 12 can also be appointed as visiting faculty.
- 10.2 **Visiting/Honorary Faculty:** Visiting/Honorary Faculty, over and above the minimum faculty prescribed in the relevant “Minimum Requirements for Annual MBBS Admissions Regulations, 2020” and the “Postgraduate Medical Education Regulations, 2021”, may be appointed by the Medical College/Medical Institutions for undergraduate and postgraduate teaching in pre-clinical, para-clinical and clinical department(s).
- 10.3 **Qualifications and Experience:** The Visiting/Honorary Faculty should possess the postgraduate degree as prescribed in the respective regulations referred to above for appointment in the concerned specialty and a minimum of eight years of work experience in the concerned specialty after obtaining the postgraduate degree. The maximum age limit up to which a person can be appointed as a Visiting/Honorary Faculty shall be 70 years.
- 10.4 **Permissible Limit of Visiting/Honorary Faculty:** The strength of Visiting/Honorary Faculty in a Department for undergraduate and postgraduate teaching cannot be more than fifty percent of the faculty strength prescribed for the concerned specialty in the relevant “Minimum Requirements for Annual MBBS Admissions Regulations, 2020” and the “Postgraduate Medical Education Regulations, 2021”.
- 10.5 **Selection:** The selection of Visiting/Honorary Faculty members shall be made by a Committee comprising: Dean/Director/Principal of the Medical College/Medical Institution, who shall be the chair of the Committee; the Head of Department of the concerned specialty; the Head of Department from any other Specialty; and at least one expert on the subject from a Medical College/Medical Institution outside the city, preferably from an institute of national importance. Visiting/Honorary Faculty could include such person(s) as those working in private health care, non-governmental organizations, retired personnel, etc. who are interested in teaching. Preference in appointment shall be given to those who have served as Faculty in Medical Colleges/Medical Institutions or in Medical Institutions affiliated with the National Board of Examination or in Foreign Medical Teaching Institutions.
- 10.6 **Duration of appointment:** Visiting/Honorary Faculty shall be eligible for appointment for a period of one year at the first instance. The same can be extended by the Dean/Director/ Principal of the Medical College/Medical Institution for another year. However, after the expiry of a two-year term, the existing Visiting/Honorary Faculty may be considered for re-appointment for subsequent term of two years through a fresh selection process outlined above. The same process will be repeated for further re-appointment(s) of incumbent Visiting/Honorary Faculty after each term of two years. Student feedback will be taken into account in making recommendation for extension / re-appointment of the Visiting/Honorary Faculty. Medical College/Medical Institution

may terminate the services of the Visiting/Honorary Faculty in the event of unsatisfactory work and/or misconduct.

- 10.7 **Scope of work and feedback:** Visiting/Honorary Faculty will be assigned teaching responsibilities by the Medical College/Medical Institution concerned. Each Visiting/Honorary Faculty member should conduct at least four sessions in a month, such as theory, small group discussions, practical's, community-based sessions or clinical / bed-side teaching sessions, etc., with each session of not less than 3 hours' duration. The Visiting Faculty/Honorary shall not be involved in the routine administrative work of the Department and shall not replace the roles and responsibilities of the full-time faculty in the Department. Six monthly feedbacks on teaching by the Visiting/Honorary Faculty will be obtained by the Medical College/Medical Institution.
- 10.8 **Honorarium:** The College may provide honorarium to the Visiting/Honorary Faculty.
- 10.9 **Others:** The details of both Regular and Visiting/Honorary Faculty shall be displayed on the website of Medical College/Medical Institution. Further, the Visiting/Honorary Faculty shall not be counted for faculty requirement laid down in relevant "Minimum Requirements for Annual MBBS Admissions Regulations, 2020" or the "Postgraduate Medical Education Regulations, 2021" for the minimum faculty strength required in the concerned Department.

11. Index of Teaching Specialties.

- 11.1 The nomenclature of the specialties/subjects shall, as far as possible be the same as that contained in the Postgraduate Medical Education Regulations, 2021. Any addition of a new specialty in the Postgraduate Medical Education Regulation, 2021 shall also lead to addition in the corresponding Table in these Regulations.
- 11.2 The teaching specialties and prior qualification for appointment of Faculty with Medical qualifications in a Department in a Medical Institution shall be as per in Table 11.A for broad specialties and Table 11.B for Super Specialties.

List of Departments in Broad Specialty:

Medical Specialties (MD)

Sl.No.	Broad Specialty
01	Anatomy
02	Anesthesiology
03	Aerospace Medicine
04	Biochemistry
05	Community Medicine
06	Dermatology, Venereology and Leprosy

07	Emergency Medicine
08	Family Medicine
09	Forensic Medicine and Toxicology
10	General Medicine
11	Geriatrics
12	Health Administration
13	Hospital Administration
14	Immuno-Haematology and Blood Transfusion
15	Master of Public Health (Epidemiology)
16	Microbiology
17	Marine Medicine
18	Nuclear Medicine
19	Pathology
20	Paediatrics
21	Palliative Medicine
22	Pharmacology
23	Physical Medicine Rehabilitation
24	Physiology
25	Psychiatry
26	Radio-diagnosis
27	Respiratory Medicine
28	Radiation Oncology

Surgical broad Specialties (MS)

Sl.No.	Broad Specialty
1	Otorhinolaryngology-Head and Neck
2	General Surgery
3	Ophthalmology
4	Orthopedics
5	Obstetrics & Gynecology
6	Traumatology and Surgery

Table 11.A Broad Medical Specialties with academic qualifications

S. No.	Name of the Specialty	Academic Qualification	Method of recruitment	Academic Qualifications during Transition period
1.	Anatomy	MD/MS/DNB (Anatomy)	As per section Table 1A and Table 1B under section 6 in the subject of Anatomy	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
2.	Anesthesiology	MD/MS/DNB (Anesthesiology)	As per Table 1A under section 6 in the Subject of Anaesthesiology	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
3.	Aerospace Medicine	MD/DNB (Aviation Medicine)	As per Table 1A under section 6 in the Subject of Aerospace Medicine.	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
4.	Biochemistry	MD/DNB (Biochemistry)	As per section Table 1A and Table 1B under section 6 in the subject of Biochemistry	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
5.	Community Medicine	MD/DNB (Community Medicine)	As per Table 1A under section 6	Not applicable as ten years from the date of

S. No.	Name of the Specialty	Academic Qualification	Method of recruitment	Academic Qualifications during Transition period
			in the Subject of Community Medicine	notification to start the course from erstwhile MCI/NMC is completed.
6.	Dermatology, Venereology and Leprosy	MD/DNB (DVL)	As per Table 1A under section 6 in the Subject of Dermatology, Venereology and Leprosy	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
7.	Emergency Medicine	MD/DNB (Emergency Medicine)	As per Table 1A under section 6 in the Subject of Emergency Medicine	Notification date: 21.07.2009. Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
8.	Family Medicine	MD/DNB (Family Medicine),	As per Table 1C under section 6 in the Subject of Family Medicine	Notification date: MD/DNB (General Medicine), MD/DNB (Pediatrics), MD/MS/DNB (OBGYN), MS/DNB (General Surgery) with special training as specified in table 1C.
9.	Forensic Medicine and Toxicology	MD/DNB (Forensic Medicine & Toxicology)	As per Table 1A under section 6 in the Subject of Forensic Medicine & Toxicology	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
10.	General Medicine	MD/DNB (Medicine)/(General Medicine)	As per Table 1A under section 6 in the Subject of General Medicine	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
11.	Geriatrics	MD/DNB(Geriatrics)	As per Table 1A under section 6 in the Subject of Geriatrics	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is

S. No.	Name of the Specialty	Academic Qualification	Method of recruitment	Academic Qualifications during Transition period
				completed.
12.	Health Administration	MD (Health Administration)	As per Table 1A under section 6 in the Subject of Hospital Administration	/MD(Hospital Administration)/MD (Community Health Administration)/ /MD (Health Administration)/DNB with special training as specified in table 1C.
13.	Hospital Administration	MD (Hospital Administration)	As per Table 1A under section 6 in the Subject of Hospital Administration	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
14.	Immuno-Hematology and Blood Transfusion	MD/DNB (Immuno-Hematology & Blood Transfusion)	As per Table 1A under section 6 in the Subject of Immuno-Hematology and Blood Transfusion	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
15.	Master of Public Health (Epidemiology)	DPH (Master of Public Health in Epidemiology)	As per Table 1A under section 6 in the Subject of Master of Public Health in Epidemiology	Notification date: 08.12.2010 Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
16.	Microbiology	MD/DNB (Microbiology)	As per Table 1A under section 6 in the Subject of Microbiology	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
17.	Marine Medicine	MD (Marine Medicine)	As per Table 1C under section 6 in the Subject of Marine Medicine	Notification date: 06.05.2017 MD/DNB in Physiology/General Medicine with special training as specified in 1C.
18.	Nuclear Medicine	MD/DNB (Nuclear Medicine)	As per Table 1A under section 6	Not applicable as ten years from the date of

S. No.	Name of the Specialty	Academic Qualification	Method of recruitment	Academic Qualifications during Transition period
			in the Subject of Nuclear Medicine	notification to start the course from erstwhile MCI/NMC is completed.
19.	Pathology	MD/DNB (Pathology)	As per Table 1A under section 6 in the Subject of Pathology	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
20.	Palliative Medicine	MD/DNB (Palliative Medicine)	As per Table 1C under section 6 in the Subject of Palliative Medicine	MD/DNB in Anesthesiology with special training as specified in 1C.
21.	Pediatrics	MD/DNB (Pediatrics)	As per Table 1A under section 6 in the Subject of Paediatrics	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
22.	Pharmacology	MD/DNB (Pharmacology)/ MBBS with Ph.D. (Med. Pharmacology)	As per Table 1A under section 6 in the Subject of Pharmacology	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
23.	Physical Medicine and Rehabilitation	MD/DNB (P.M.R)	As per Table 1A under section 6 in the Subject of Physical Medicine and Rehabilitation	MD/DNB (Medicine) with Diploma in PMR MS/DNB (General Surgery) or (Orthopedics) with special training as specified in table 1 C.
24.	Physiology	MD/DNB (Physiology)	As per Table 1A under section 6 in the Subject of Physiology	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
25.	Psychiatry	MD/DNB (Psychiatry)	As per Table 1A under section 6 in the Subject of	Not applicable as ten years from the date of notification to start the

S. No.	Name of the Specialty	Academic Qualification	Method of recruitment	Academic Qualifications during Transition period
			Psychiatry	course from erstwhile MCI/NMC is completed.
26.	Radio-Diagnosis	MD/DNB (Radio-Diagnosis)	As per Table 1A under section 6 in the Subject of Radio-Diagnosis	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
27.	Respiratory Medicine	MD/DNB (Respiratory Medicine)	As per Table 1A under section 6 in the Subject of Respiratory Medicine	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
28.	Radiation Oncology	MD/DNB (Radiation Oncology)	As per Table 1A under section 6 in the Subject of Radiation Oncology	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
29.	Dentistry	MDS	As per Table 2 under section 6 in the Subject of Dentistry	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.

Table 11.A Surgical Broad Specialties with Academic qualifications:

S. No.	Name of the Specialty	Academic Qualification	Method of recruitment	Academic Qualifications during Transition period of 10 years from the date of notification to start the course by erstwhile MCI/NMC
1	Otorhinolaryngology-Head and Neck	MS/DNB (Oto-Rhino-Laryngology)	As per Table 1A under section 6 in the Subject of Oto-Rhino-Laryngology	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.

2	General Surgery	MD/DNB (General Surgery)	As per Table 1A under section 6 in the Subject of General Surgery.	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
3	Ophthalmology	MS/MD/DNB (Ophthalmology)	As per Table 1A under section 6 in the Subject of Ophthalmology	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
4	Orthopedics	MS/DNB (Orthopedics)	As per Table 1A under section 6 in the Subject of Orthopaedics	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
5	Obstetrics and Gynecology	MD/MS/DNB(Obstetrics & Gynecology)	As per Table 1A under section 6 in the Subject of Obstetrics and Gynaecology	Not Applicable Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
6	Traumatology and Surgery	MS/DNB (Traumatology and Surgery)	As per Table 1A under section 6 in the Subject of Traumatology and Surgery	Notification No.MCI.18(1)/2010-Med./45048 dated 08.12.2010 Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.

List of Departments in Super Specialty:

Medical Super Specialty Departments (DM)

S. No.	Name of the Specialty
1.	Cardiology
2.	Cardiac Anesthesia

3.	Clinical Immunology and Rheumatology
4.	Clinical Hematology
5.	Critical Care Medicine
6.	Endocrinology
7.	Hepatology
8.	Interventional Radiology
9.	Medical Gastroenterology
10.	Medical Genetics
11.	Medical Oncology
12.	Neonatology
13.	Nephrology
14.	Neuro-anesthesia
15.	Neurology
16.	Pediatric Cardiology
17.	Pediatric Gastroenterology
18.	Pediatric Neurology
19.	Pediatric Oncology
20.	Pediatric Hepatology
21.	Pediatric Nephrology
22.	Pediatrics and Neonatal Anesthesia
23.	Pulmonary Medicine
24.	Virology

1.

Surgical Super Specialty Departments (M.Ch)

S. No.	Name of the Specialty
1	Cardiac Surgery
2	Gynecological Oncology
3	Hepato-Pancreato-Biliary Surgery
4	Head and Neck Surgery
5	Neuro-Surgery
6	Pediatric Surgery
7	Pediatric Cardiothoracic and Vascular Surgery
8	Plastic & Reconstructive Surgery
9	Surgical Oncology
10	Surgical Gastroenterology
11	Thoracic Surgery
12	Urology
13	Vascular Surgery

Table 11.B Medical Super Specialties with Academic qualifications:

S. No.	Name of the Specialty	Academic Qualification	Method of Recruitment	Academic Qualifications during Transition period of 10 years from the date of notification by erstwhile MCI/NMC
1	Cardiology	DM (Cardiology) /DNB	As per Table 3A under section 6 in the Subject of Cardiology	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed
2	Cardiac Anesthesia	DM/DNB (Cardiac Anesthesiology)	As per Table 3A under section 6 in the Subject of Cardiac Anaesthesia	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
3	Clinical	DM in Clinical	As per Table 3B	MD General Medicine

S. No.	Name of the Specialty	Academic Qualification	Method of Recruitment	Academic Qualifications during Transition period of 10 years from the date of notification by erstwhile MCI/NMC
	Immunology and Rheumatology	Immunology and Rheumatology	under section 6 in the Subject of Clinical Immunology and Rheumatology	MD Pediatrics with special training as specified in 3 B in the specialty of Clinical Immunology and Rheumatology
4	Clinical Haematology	DM/DNB (Clinical Haematology)	As per Table 3A under section 6 in the Subject of Clinical Haematology	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
5	Critical Care Medicine	DM/DNB (Critical Care Medicine)	As per Table 3A under section 6 in the Subject of Critical care Medicine	Notification No.MCI.18(1)/2010-Med./45048 dated 08.12.2010 Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
6	Endocrinology	DM/DNB (Endocrinology)	As per Table 3A under section 6 in the Subject of Endocrinology	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
7	Hepatology	DM (Hepatology)	As per Table 3A under section 6 in the Subject of Hepatology	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
8	Interventional Radiology	DM (Interventional Radiology)	As per Table 3B under section 6 in the Subject of Interventional Radiology	MD/DNB in Radio Diagnosis with special training as specified in 3 B in the specialty of Interventional Radiology
9	Medical Gastroenterology	DM/DNB (Gastroenterology)	As per Table 3A under section 6	Not applicable as ten years from the date of

S. No.	Name of the Specialty	Academic Qualification	Method of Recruitment	Academic Qualifications during Transition period of 10 years from the date of notification by erstwhile MCI/NMC
			in the Subject of Gastroenterology	notification to start the course from erstwhile MCI/NMC is completed.
10	Medical Genetics	DM/DNB (Medical Genetics)	As per Table 3A under section 6 in the Subject of Medical Genetics	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
11	Medical Oncology	DM/DNB (Medical Oncology)	As per Table 3A under section 6 in the Subject of Medical Oncology	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
12	Neonatology	DM/DNB (Neonatology)	As per Table 3A under section 6 in the Subject of Neonatology	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
13	Nephrology	DM/DNB (Nephrology)	As per Table 3A under section 6 in the Subject of Nephrology	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
14	Neuro-anesthesia	DM/DNB (Neuro-anesthesia)	As per Table 3A under section 6 in the Subject of Neuro-anesthesia	Notification No.MCI.18(1)/2010-Med./45048 dated 08.12.2010 Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
15	Neurology	DM/DNB(Neurology)	As per Table 3A under section 6 in the Subject of Neurology	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
16	Pediatric Cardiology	DM/DNB (Pediatric Cardiology)	As per Table 3A under section 6 in the Subject of Paediatric	Notification date:21.07.2009 Not applicable as ten years from the date of

S. No.	Name of the Specialty	Academic Qualification	Method of Recruitment	Academic Qualifications during Transition period of 10 years from the date of notification by erstwhile MCI/NMC
			Cardiology	notification to start the course from erstwhile MCI/NMC is completed.
17	Pediatric Gastroenterology	DM (Pediatric Gastroenterology)	As per Table 3A under section 6 in the Subject of Paediatric Gastroenterology	Notification date:21.07.2009 Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
18	Pediatric Neurology	DM/DNB (Neurology)	As per Table 3B under section 6 in the Subject of Pediatric Neurology	MD/DNB (Pediatrics) with special training as specified in 3 B in the specialty of Pediatric Neurology
19	Pediatric Oncology	DM (Pediatric Oncology)	As per Table 3A under section 6 in the Subject of Paediatric Oncology	Notification date: 08.12.2010. Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
20	Pediatric Hepatology	DM/DNB (Pediatric Hepatology)	As per Table 3A under section 6 in the Subject of Paediatric Hepatology	Notification date:09.12.2009 Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
21	Pediatric Nephrology	DM (Pediatric Nephrology)	As per Table 3A under section 6 in the Subject of Paediatric Nephrology	Notification No.MCI.18(1)/2010-Med./45048 dated 08.12.2010 Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.

S. No.	Name of the Specialty	Academic Qualification	Method of Recruitment	Academic Qualifications during Transition period of 10 years from the date of notification by erstwhile MCI/NMC
22	Pediatric and Neonatal Anesthesia	DM in Pediatric and Neonatal Anesthesia	As per Table 3B under section 6 in the Subject of Paediatric and Neonatal Anaesthesia	Notification date: 24.04.2012 MD/DNB in Anesthesiology with special training as specified in 3 B in the specialty of Pulmonary Medicine
23	Pulmonary Medicine	DM/DNB (Pulmonary Medicine)	As per Table 3A under section 6 in the Subject of Pulmonary Medicine	Notification date: 21.07.2009 Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
24	Virology	DM (Virology).	As per Table 3B under section 6 in the Subject of Virology.	Notification No.MCI.18(1)/2010-Med./45048 dated 08.12.2010 Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.

Table 11.B Surgical Super Specialty with Academic qualifications:

S. No.	Name of the Specialty	Academic Qualification	Method of Recruitment	Academic Qualifications during Transition period of 10 years from the date of notification by erstwhile MCI/NMC
1	Cardiac Surgery	M.Ch/DNB (Cardio Surgery)	As per Table 3A under section 6 in the Subject of Cardio Vascular and Thoracic Surgery	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
2	Gynecological	M.Ch/DNB	As per Table	MD/MS/DNB in Obstetrics and

	Oncology	(Gynecological Oncology)	3B under section 6 in the Subject of Gynaecological Oncology	Gynae with special training as specified in 3 B in the specialty of Gynecological Oncology
3	Hepato-Pancreato-Biliary Surgery	M.Ch. (HPB Surgery).	As per Table 3A under section 6 in the Subject of Hepato-Pancreato-Biliary Surgery	Notification no: 09.12.2009 Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
4	Head and Neck Surgery	M.Ch/DNB (Head and Neck Surgery)	As per Table 3B under section 6 in the Subject of Head and Neck Surgery	Notification date:21.02.2012 MS/DNB in General Surgery/ENT with special training as specified in 3 B in the specialty of Head and Neck Surgery.
5	Neuro-Surgery	M.Ch/DNB (Neuro Surgery)	As per Table 3A under section 6 in the Subject of Neuro-Surgery	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
6	Pediatric Surgery	M.Ch/DNB(Paediatric Surgery)	As per Table 3A under section 6 in the Subject of Paediatric Surgery	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
7	Pediatric Cardiothoracic and Vascular Surgery	M.Ch/DNB Pediatric Cardiothoracic and Vascular Surgery	As per Table 3A under section 6 in the Subject of Paediatric Cardiothoracic and Vascular Surgery	Notification date:21.07.2009 Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
8	Plastic & Reconstructive Surgery	M.Ch/DNB (Plastic & Reconstructive Surgery)	As per Table 3A under section 6 in the Subject of Plastic &	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.

			Reconstructive Surgery	
9	Surgical Oncology	M.Ch./DNB (Surgical Oncology)	As per Table 3A under section 6 in the Subject of Surgical Oncology	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
10	Surgical Gastroenterology	M.Ch/DNB (Surgical Gastroenterology)	As per Table 3A under section 6 in the Subject of Surgical Gastro Enterology	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
11	Thoracic Surgery	M.Ch Thoracic Surgery	As per Table 3B under section 6 in the Subject of Thoracic Surgery	MS/DNB in General Surgery with special training as specified in 3 B in the specialty of Thoracic Surgery.
12	Urology	M.Ch/DNB (Urology)	As per Table 3A under section 6 in the Subject of Urology	Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.
13	Vascular Surgery	M.Ch./DNB (Vascular Surgery)	As per Table 3A under section 6 in the Subject of Vascular Surgery	Notification date: 06.10.2001 Not applicable as ten years from the date of notification to start the course from erstwhile MCI/NMC is completed.

12. General Norms regarding Foreign Postgraduate Qualifications for Equivalence:

12.1 In the case of a person with Postgraduate medical qualifications awarded in United Kingdom, United States of America, Canada, Australia and New Zealand, his qualifications can be considered as equivalent qualifications with MD/MS/DM/MCh, as the case may be, if he fulfils the following criteria in those countries.

United Kingdom: He should have completed Certificate of Completion of Specialist Training (CCST) or equivalent training with final FRCS/FRCP degree.

United States of America and Canada: He should have MD qualification with Residency Training Certificate in the relevant specialty in USA. For Super specialties, successful completion of Residency Training Programme along with

completion of accredited Fellowship programme in the relevant super specialty is essential.

Australia and New Zealand: He should have completed supervised training programme culminating in the Fellowship of the respective Specialty (FRACS/FRACP). For Super Specialties, minimum two years of supervised sub specialty Fellowship programme in the respective Sub Specialty is essential.

- 12.2** He should have done his complete duration of training in those countries and be registered there.
- 12.3** In such cases he will be eligible for the post of Assistant Professor in the respective department and his subsequent promotions would be as per Teachers Eligibility and Minimum Qualifications in Medical Institutions Regulations - 2021.
- 12.4** Other qualifications will be evaluated by the NMC as and when reference is received.
- 12.5** These parameters shall be in force till the National Eligibility Test (NEXT) is introduced.
- 13.** A teacher may apply to the National Medical Commission through the concerned Head of the Institution and University for determination of his eligibility for a teaching position in a Medical Institution in the case of ambiguity and controversy.
- 14. Saving clause:** Notwithstanding anything contained in these Regulations, in respect of any appointments made under the Minimum Qualifications for Teachers in Medical Institution Regulations, 1998 or the recommendation of the Councils prior to that shall be protected, despite any provisions of these Regulations.
- 15. Repeal:** The “Minimum Qualifications for Teachers in Medical Institution Regulations, 1998” is hereby repealed.

राष्ट्रीय आयुर्विज्ञान आयोग National Medical Commission

NMC/34(41)/2021/Med.Misc./०५७०६८

Date: 20.12.2021

Sub: Norms for Faculty Appointment, Confirmation and Promotion to the posts of Professors, Additional Professors and Associate Professors in Medical Colleges under NMC - Provisional Relaxation

Reference: TEQ Regulations No. MCI-12(2)/2019-Med.Misc./189334 dated 12th February, 2020

2. In view of the ongoing Covid-19 Pandemic, it has been brought to our notice that inconvenience is being faced by the teaching faculty of various institutes in attending mandatory MET and BMR workshops, hence it has been decided to extend the period for acquiring requisite MET (Medical Education Technology) and BMR (Biomedical Research) qualification for the purpose of appointment, confirmation and promotion by 01 (one) year.
3. This is a onetime relaxation/waiver applicable till 31st December, 2022.
4. This will be applicable for the teaching posts of Professors, Additional Professors and Associate Professors in Medical Colleges, under National Medical Commission.



**Secretary
National Medical Commission**

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राष्ट्रीय आयुर्विज्ञान आयोग
National Medical Commission
[Post Graduate Medical Education Board]

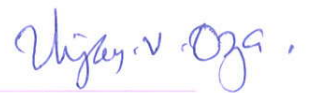
No.NMC/MCI-23(1)/2021-MED.

dated the 15 July, 2022

PUBLIC NOTICE

Para 6 of the “*Teachers Eligibility Qualifications in Medical Institutions Regulations, 2022*” stipulates norms for faculty appointment and promotions in Broad Specialties (MD/MS) and Super Specialties (DM/M.Ch) in a permitted/recognised medical college/institution. It, *inter alia*, stipulates that for promotion to the post of Professor, Associate Professor, the faculty should have completed the Basic Course in Medical Education Technology (BCMET) from institutions designated by the national Medical Commission (NMC).

2. In this connection, many representations have been received from medical colleges/institutes regarding non-availability of slots for the BCMET from the designated institutions. As a result, many faculty are not getting promoted. To obviate the difficulties being faced by the faculty, it has been decided to give relaxation for completion of the BCMET for one year from the date of issue of this notice. The faculty availing this relaxation will have to complete the said course within three years from the date of promotion. The faculty which has already been promoted earlier on such relaxation, will also have to complete the BCMET within three years from the date of promotion.



(Dr Vijay Oza)

President, PGMEB

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राष्ट्रीय आयुर्विज्ञान आयोग
National Medical Commission
Postgraduate Medical Education Board (PGMEB)

Pocket- 14, Sector- 8, Dwarka,
New Delhi-110077

Date: _____

Public Notice

PGMEB, National Medical Commission issues Teachers Eligibility Qualification Certificates as per the "Teachers Eligibility Qualification in Medical Institution Regulations, 2022". In Case the requesting applicant does not fulfill the minimum eligibility criteria, than a regret letter indicating the deficiency is communicated to the applicant.

2. It has been observed that applicants submit the additional certificates obtained by them after submission of the initial application and request for reconsideration of the earlier decision of National Medical Commission. It has been decided that in future all such cases while making any request applicants have to submit the requisite fee again if the deficient Qualification/Experience/ Publication has been obtained after submission of initial application.

(Aujender Singh)
Deputy Secretary, PGMEB

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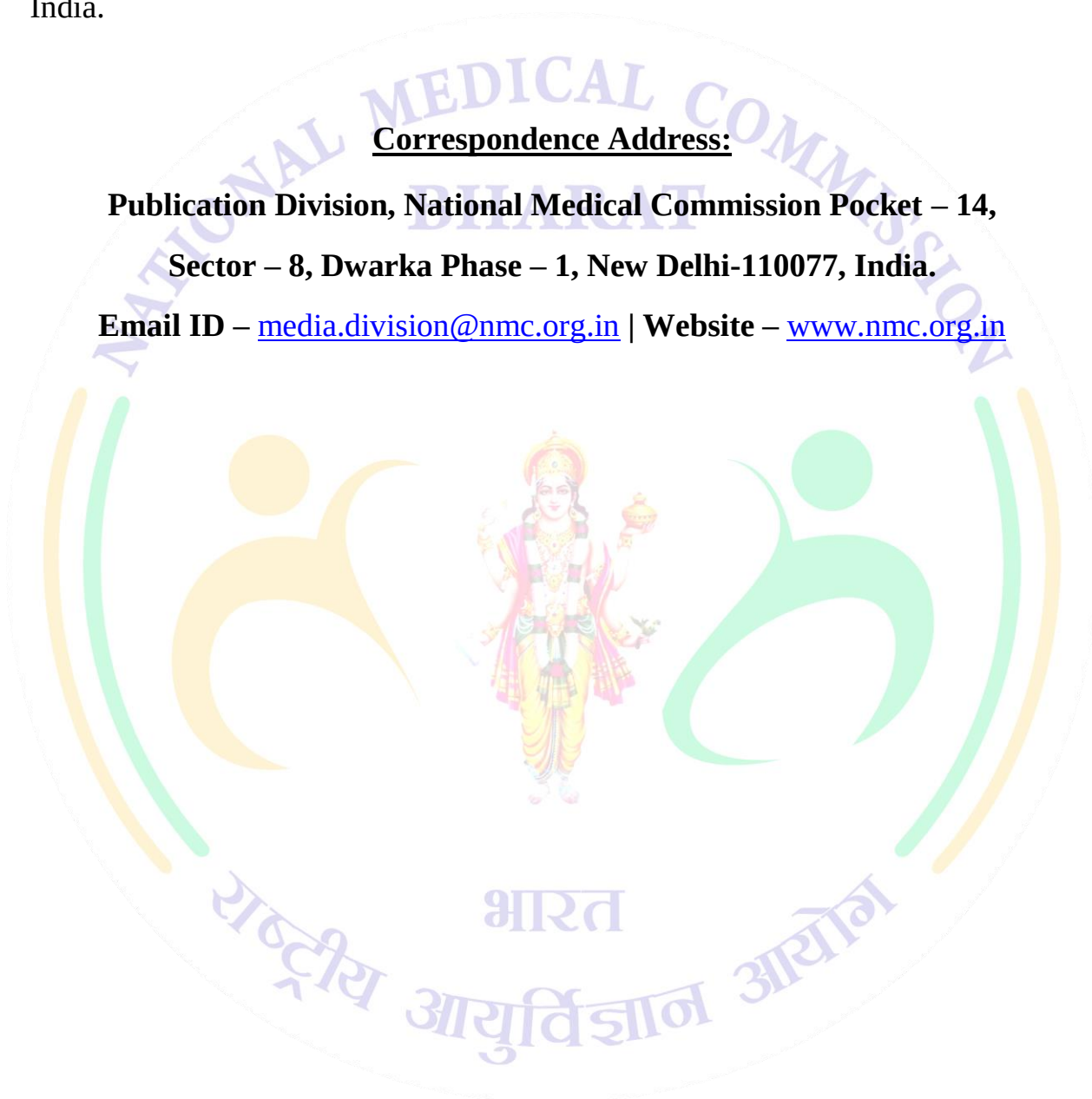
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