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# Quality of Medical Education in India

राष्ट्रीय आयुर्विज्ञान आयोग

**NATIONAL MEDICAL COMMISSION**



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# INTRODUCTION



**National Medical Commission Act, 2019 on 25.9.2020.**

**Four Autonomous Boards under the overall supervision of the NMC:**

- **Under-Graduate Medical Education Board(UGMEB)**
- **Post-Graduate Medical Education Board(PGMEB)**
- **Medical Assessment and Rating Board(MARB)**
- **Ethics and Medical Registration Board (EMRB)**

# New Regulations issued on Medical Education, Monitoring and Inspection of Medical Institutions

- a) Establishment of Medical College Regulations, (Amendment), 2020
- b) Minimum Requirements for Annual M.B.B.S. Admissions Regulations, 2020.
- c) National Medical Commission (Prevention and Prohibition of Ragging in Medical Colleges and Institutions) Regulations, 2021
- d) National Medical Commission (Compulsory Rotating Medical Internship) Regulations, 2021
- e) National Medical Commission (Foreign Medical Graduate Licentiate) Regulations, 2021.
- f) Teachers Eligibility Qualifications in Medical Institutions Regulations, 2022.
- g) Establishment of Medical College Regulations (Amendment), 2022.

# New Regulations issued on Medical Education, Monitoring and Inspection of Medical Institutions

- h) Teachers Eligibility Qualifications in Medical Institutions Regulations (Amendment), 2023.**
- i) Registration of Medical Practitioners and License to Practice Medicine Regulations, 2023.**
- j) Establishment of Medical Institutions, Assessment & Rating Regulations, 2023.**
- k) Graduate Medical Education Regulations, 2023 (GMER-23).**
- l) UGMSR (guidelines 2023) & PGMSR (guidelines 2023)**

# New Regulations issued on Medical Education, Monitoring and Inspection of Medical Institutions

- m) NMC, National Exit Test Regulations, 2023**
- n) Maintenance of Standards Of Medical Education Regulations, 2023**
- o) Amendment in TEQ regulations, 2022**
- p) Post Graduate Medical Education Regulation, 2023**
- q) Recognition of Qualifications regulations, 2023**

# Learning from different quarters

Teachers, Self, Fellow students &  
Experience over time with Patients

acharyat padamadatte padam shishya svamedhaya |  
padam sabrahmacharibhya: padam kala kramena cha ||

आचार्यात् पादमादत्ते पादं शिष्य स्वमेधया |

पादं सब्रह्मचारिभ्यः पादं काल क्रमेण च ||





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# Total Trust & Transparency



- NMC Provides guidelines/requirements for a course
- Colleges have the onus to declare the accurate details
- The declarations shall happen annually
- The same are on website (public domain)
- 'Inspection' shall be digital (AEBAS & ABHA ID)
- Rating of colleges by third party
- Result of all these on public domain (rejection, lower # or LOP)
- Surprise inspection by faculty (assessors)
- Inaccuracy invites sanctions/penalty

# Present statistics of seats

Year	UG Seats	PG Seats*
2014-15	54348	30191
2021-22	91927	58364
2022-23	96077	64509
2023-24	108990	68073

**\*Total PG seats (NMC+NBEMS+INI)**



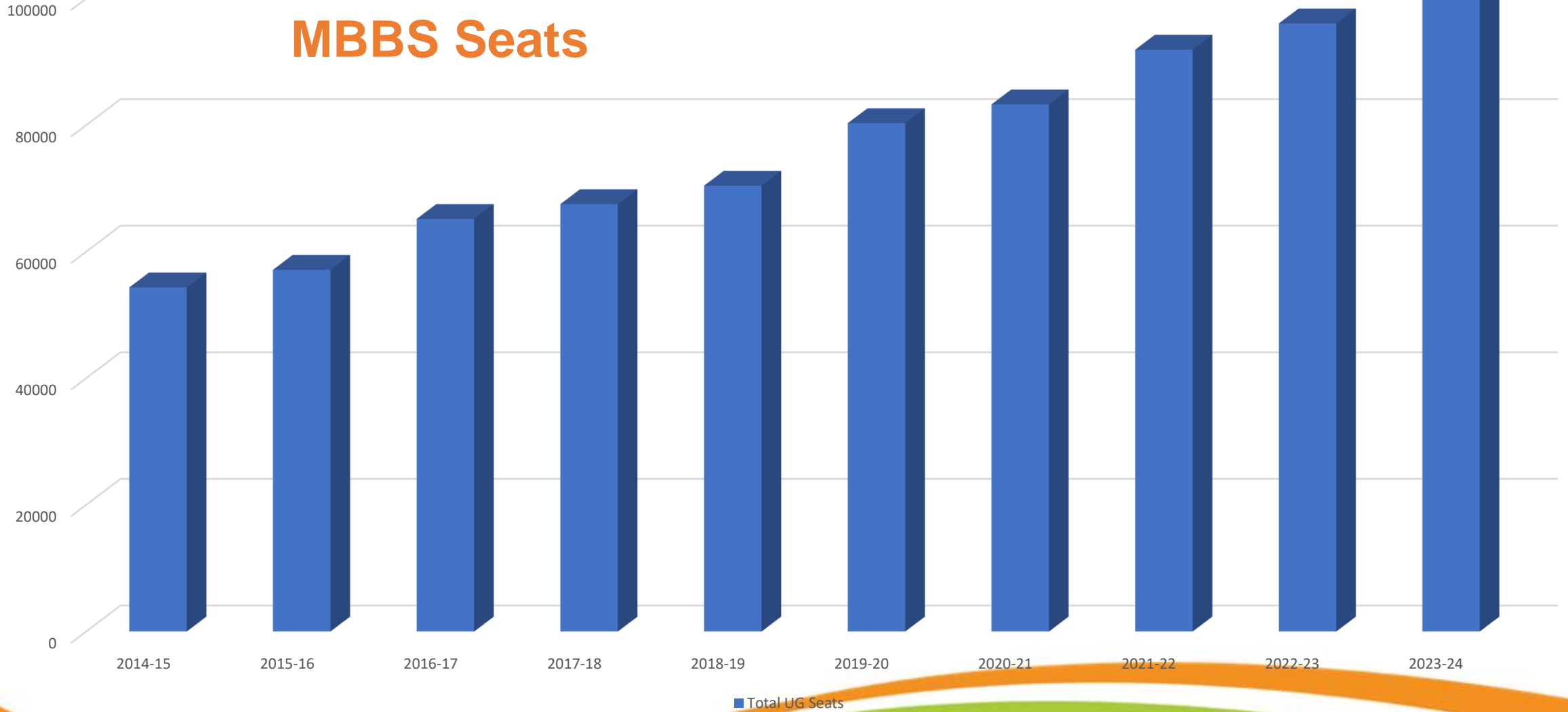


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# MBBS Seats

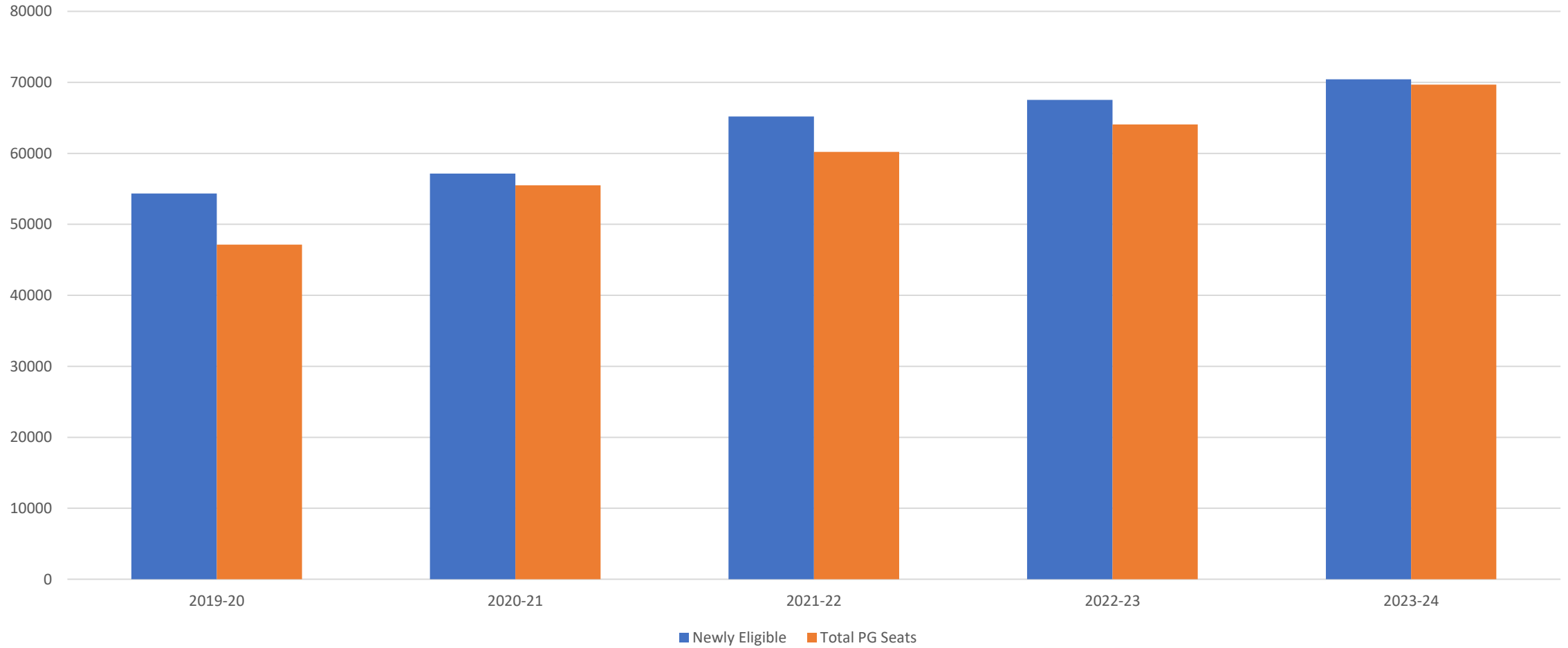


■ Total UG Seats



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# New UG eligible and PG seats ratio (last 5 years)



# Bridging UG-PG seat numbers

Year	21-22	22-23	23-24
<b>UG PASSOUTS Expected</b>	<b>65183</b>	<b>67523</b>	<b>70433</b>
<b>Available PG Seats (NMC+NBEMS+INI)</b>	<b>58364</b>	<b>62438</b>	<b>68073</b>
<b>Deficit</b>	<b>6819</b>	<b>5085</b>	<b>2360</b>

**However, about 2 lac write the NEET PG. Backlog of 1.3 lacs**



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# Criteria for opening of new medical colleges

# Permission to increase MBBS seats in old Medical Colleges: MARB

: [https://www.nmc.org.in/AppForms\\_nmc/MARB Guidelines for AY 2024 25 0001.pdf](https://www.nmc.org.in/AppForms_nmc/MARB_Guidelines_for_AY_2024_25_0001.pdf)

## a. Application related to Increase of seats in UG

Step 1 - To check availability of following:-

- a) Essentiality certificate (EC)      b) Certificate of affiliation (CoA)      c) Application fees

Note: As per MSR 2023 issued on 16th August 2023

- Increase of UG seats only upto 150 from the year 2024-25;
- Should first meet requirements for existing numbers
- With the exception that colleges who have applied for academic year 2023-24 for increased seats..
- Provided that medical college shall follow the ratio of 100 MBBS seats for 10 lakh population in that state/ U.T.

Step 2: Overall UG standards are ok as approved by UG board & AEBAS is fulfilled for UG seats

Step 3: Inspection



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# Criteria for opening of new Medical Colleges



- **Colleges can start intake from 50 students/year**
- **Increase in seats at any next year/s thereafter up to a maximum of 150 MBBS students**
- **Should adhere to faculty & clinical load standards from year-1**
- **State Governments/UTs are required to consider and verify the ratio of 100 MBBS seats for 10 lakh population in their State/UT while issuing new Essentiality Certificate for establishment of new medical college or increase of MBBS seats in an existing medical college in the State/UT. (suspended for this year)**

**More details can be accessed at:**

[https://www.nmc.org.in/rules-regulations/national-medical-commission-minimum-standard\\_requirements-for-establishment-of-new-medical-college-increase-of-seats-in-mbbs-course-guidelines-2023-reg/](https://www.nmc.org.in/rules-regulations/national-medical-commission-minimum-standard_requirements-for-establishment-of-new-medical-college-increase-of-seats-in-mbbs-course-guidelines-2023-reg/)





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# DIFFERENCES BETWEEN MSR 2020 AND MSR 2023 (UG)



#	PARAMETER	MSR 2020	MSR 2023
1	Land requirement	20 acres gen/ 10 acres metropolis	Nil. Removed (easy to start)
2	SUBJECTS	23	20 (Student friendly)
3	Number of seats	100/150/250	50/100/150 (Student friendly)
4	Requirements increase	Allowed year-wise	Full availability from start
5	Increase in seats	5-year wait	Successive years (capped at 150)
6	Concept of permitted/ recognized	Present- Step-wise increase in infrastructure, material, faculty: recognition in final yr	Recognised from start requirement constant (Student friendly)-



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# DIFFERENCES BETWEEN MSR 2020 AND MSR 2023 (UG)



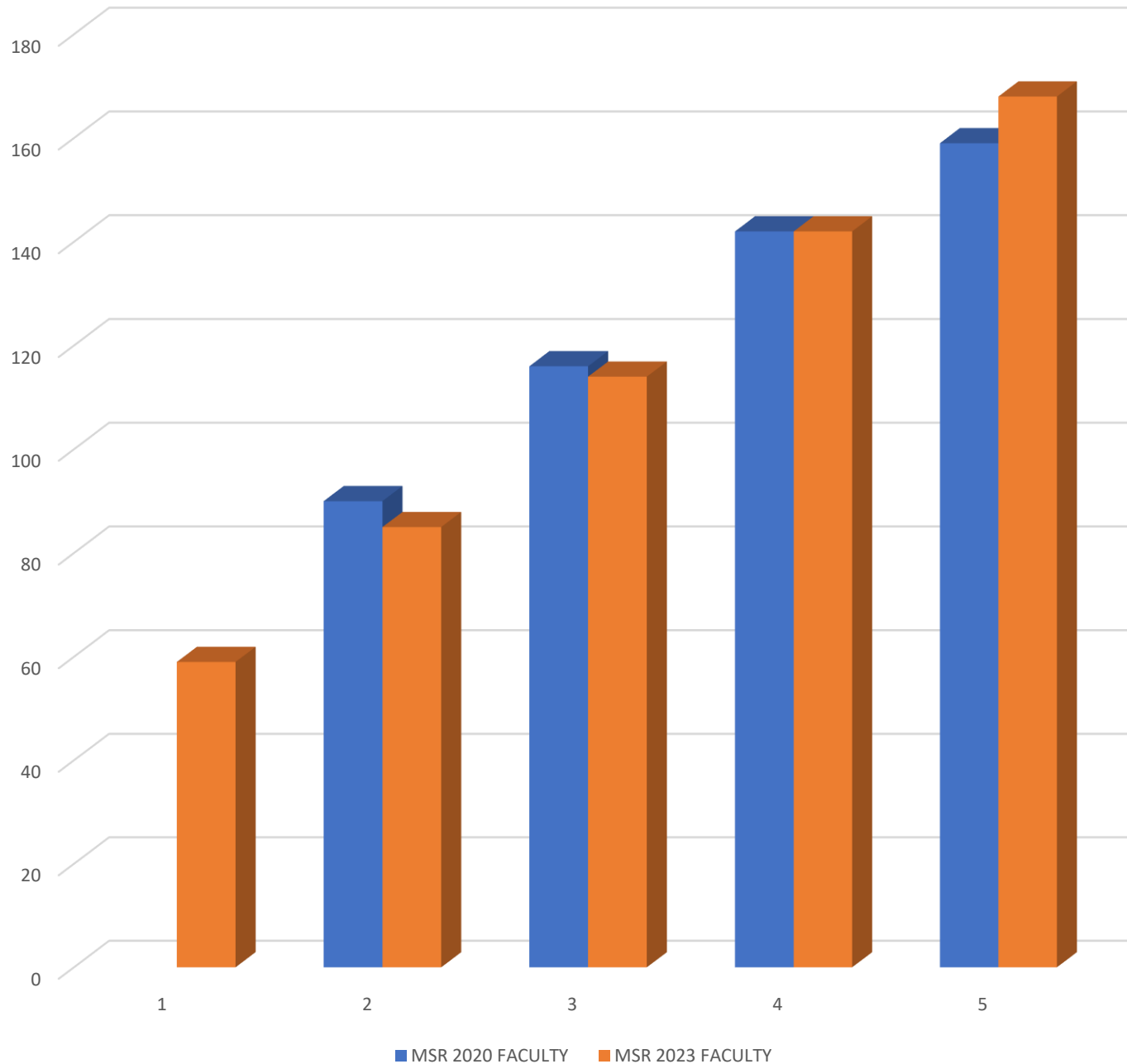
#	PARAMETER	MSR 2020	MSR 2023
7	Laboratory	Separate for each dept.	May be shared
8	Autopsy facility	Non-govt. institutions not allowed	Allowed
9	Biometric (AEBAS) attendance	Not implemented (90% during physical assessment)	AEBAS implemented (75% attendance of working days)
10	AEBAS for students	Not required	Mandated
11	Assessment	NMC designated assessors	Self-assessment by video clippings and affidavit, AEBAS (rarely physical)



# DIFFERENCES BETWEEN MSR 2020 AND MSR 2023



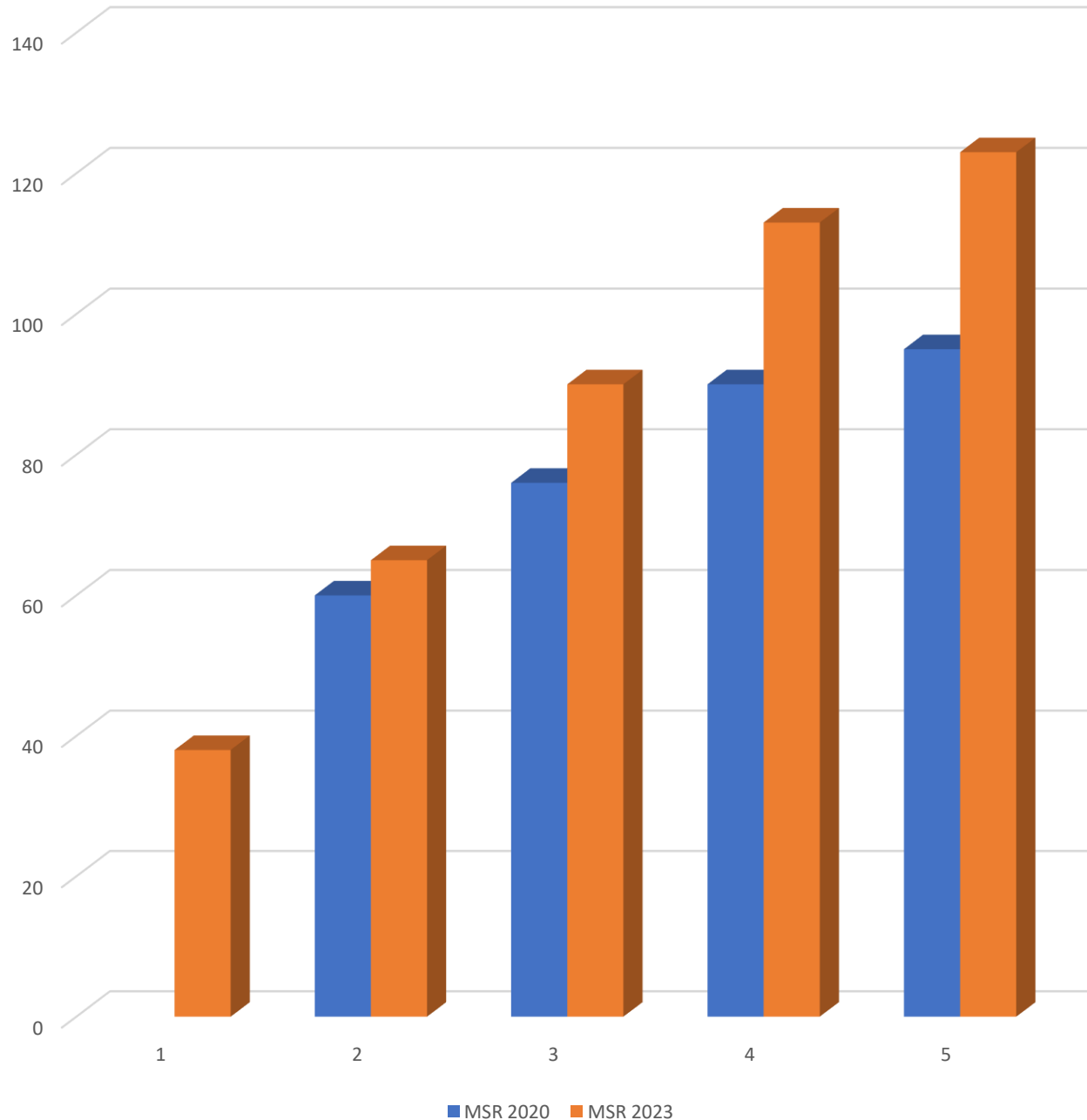
#	PARAMETER	MSR 2020	MSR 2023
11	Family adoption program	Absent	Mandated for ECE and providing health care awareness to the last man of society
12	Faculty development program	Partly handled by private players	Propped up, well structured and handled by NMC
13	Exams- Passing criteria	50% in theory/ practical, 50% aggregate, provision of 5 grace marks.	40% minimum in theory & practical each; 50% aggregate, no grace marks
14	Examiners-number and externals	4 examiners for 100 students and additional 1 examiner/ 25 addit. students , External examiners out of Univ	Every student to be examined by 4 examiners, 50% internal and 50% external, External Examiner out of college



## UG guidelines: 2020 v/s 2023

### Comparison of Faculty requirements

MBBS SEATS	MSR 2020	MSR 2023
50		59
100	90	85
150	116	114
200	142	142
250	159	168



## SRs, Demonstrators and Tutors, : 2020 v/s 2023

MBBS SEATS	MSR 2020	MSR 2023
50		38
100	60	65
150	76	90
200	90	113
250	95	123



## REQUIREMENTS AS PER MSR 2023



<b>Beds/Dept</b>	<b>50</b>	<b>100</b>	<b>150</b>	<b>200</b>	<b>250</b>
GEN MEDICINE	50	100	150	220	225
PEDIATRICS	25	50	75	100	125
DERMATOLOGY	5	10	10	10	10
PSYCHIATRY	5	10	15	20	25
GEN. SURGERY *	50	100	150	150	200
ORTHOPEDICS	20	40	60	80	100
ENT	10	20	20	30	30
OPHTHALMOLOGY	10	20	20	30	30
OBS. & GYN	25	50	75	100	125
ICUs	20	20	30	30	30
<b>TOTAL</b>	<b>220</b>	<b>420</b>	<b>605</b>	<b>770</b>	<b>900</b>
<b>OPD/DAY</b>	<b>400</b>	<b>800</b>	<b>1200</b>	<b>1600</b>	<b>2000</b>



# Measures taken for Quality Assurance in Medical Education



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# MEASURES TAKEN FOR QUALITY ASSURANCE IN MEDICAL EDUCATION. 1

- **Revised (CBME) Competency-Based Undergraduate Curriculum from 21-22**
- **Early clinical exposure**
- **AETCOM module(Attitude, Ethics and communication)**  
**Problem-based learning, domain-wise education and exposure**
- **Promote interest in basic research**

# MEASURES TAKEN FOR QUALITY ASSURANCE IN MEDICAL EDUCATION. 2

- **Introduction of foundation course which includes**
  - Yoga and Meditation (To manage stress), Local Language adaptation and skills
- **Mentor-Mentee program** to foster teacher student relationship and individual attention, also counselling support
- **Family/Village adoption program** to promote communication skills and teach longitudinal health perspective

# MEASURES TAKEN FOR QUALITY ASSURANCE IN MEDICAL EDUCATION. 3

## Faculty Development Programs (2019)

- **Advanced Course in Medical Education (ACME) (6 mo) and Basic Course in Medical Education (BCME) (3 days) for medical faculty to improve teaching learning skills**
- **Curriculum implementation support programme (CISP)-III (2 days) is also envisaged from April, 2023.**
- **UG and the PG boards have prepared guidelines based on extensive consultations with stakeholders and experts.**

# 24 Regional centers & 14 Nodal centers (doubled in last 3 years)

#	COURSE (trained till Dec 2023)	WORKSHOPS HELD	NUMBER TRAINED
1	Revised & Basic Course Med Education (rBCW & BCME)	1534	44593
2	Advanced Course of Medical Education (ACME)	12	360
3	Curriculum implementation support program-I (CISP-I) (2019-2021) (For phase-1 MBBS)	557	15509
4	CISP-II (Phase 2 MBBS)	566	16566
5	CISP-III (For Final MBBS) (from April 2023)	83	2432

# Early clinical exposure for UG

- Full inputs in UG in new colleges from start
- These include faculty, beds and clinical material
- 1:4 Inpatient beds, 1:8 OP attendance
- **Maximum seats in UG upto 150**



# INITIATIVES BY NMC TO IMPROVE QUALITY MEDICAL EDUCATION IN INDIA for ASSESSMENTS AND MONITORING

- a) Faculty: Aadhaar-based biometric attendance system;
- b) Clinical load: CCTV cameras to Command & Control Center  
HMIS with ABHA ID to increase authenticity
- a) Annual Self-declaration of the resources, infrastructure, teachers and clinical material, by the college to reduce inspections (MSMER 2023)

# INITIATIVES BY NMC TO IMPROVE QUALITY MEDICAL EDUCATION IN INDIA. 5- RATING

## Medical College Assessment and Rating

- MOU with Quality Council of India (**QCI**), for rating of medical colleges and assessments will be made available on the public domain. (Pilot of rating process completed and awaiting stakeholders consultations)

## NExt (National Exit Test)

- ‘Product’ (quality of the doctors trained) standardization by a common Exit examination.

# Initiatives of National Medical Commission for bringing transparency in its functioning

- Public comments sought on draft regulations on its web-site.
- Consultations with colleges, DMEs, SMCs, visits to colleges
- Implementation of E-Office in NMC
- Posting of approval letters with speaking order on website.
- NMC has achieved ISO 9001-2015 and
- WFME (World Federation of Medical Education) certification for 10 years
- IT initiatives :
  - Assessors' allotment software ready to be used this year



# Affordable Medical Education



- **Regulation of fees: Capping tuition fees for 50% UG & PG medical seats in private medical colleges and universities. (Office memorandum dated 3rd Feb 2022) (Currently under litigation)**
- **One government medical college in every district of the country resulting into increased number of medical seats of lower fees**
- **Relaxed land requirement standards:**
  - **NMC removed the mandate to have large land for a medical college**
  - **2 years requirement of having hospital to start waived off**
  - **Fewer departments mandated**
  - **Smaller hospitals (220 beds) can start Medical college for 50 MBBS students**

# Permission to increase PG seats in old and new Medical Colleges

**Step 1: To check availability of following:-**

- i) Essentiality certificate (EC)**
- ii) Certificate of affiliation (CoA)**
- iii) Application fees**

**All Three of these in Step-1**

**Step 2: Should meet faculty requirements for existing UG Seats**

**Step 3: PG faculty for existing PG seats are fulfilled (AEBAS) and recognized by PG board**

**Step 4: Inspection (AEBAS);**

**Step 5: Clinical material (affidavit/physical inspection)**

# Quality improvement measures in PG

## Number of Specialities Increased Since 2000

Courses	No. of Specialities as per PGMER-2000	No. of Specialities as per PGMER-2023
Broad Specialties	34	38
Super Specialties	21	48
Diplomas courses	28	28
Post-Doctoral Certificate (PDCC)/Post Doctoral Fellowship (PDF) Courses	Nil	12





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# THANKS