



NKP Salve Institute of Medical Sciences & Research Centre & Lata Mangeshkar Hospital, Nagpur

Digdoh Hills, Hingna, Nagpur- 440 019

Ph no – (07104)-665000

College Website : www.nkpsims.in

First MBBS

Student Information Booklet

2020 Batch



Chairman's Message

Dear Students,

My best wishes to all students who have chosen the institute to pursue their profession in the field of medicine.

This institute provides you the right mix of high standards of medical education & training to enable you all to achieve not only the goals you aspire for but also to be able citizens of the country.

I am sure with the state - of - art facilities, dedicated team of talented teachers, a large pool of patients, you shall have ample opportunity to prove yourselves.

My blessings and best wishes to you all.

Shri. Ranjeet Deshmukh
Chairman
VSPM AHE, Nagpur

Dean's Message

It gives me immense pleasure to welcome you to this institute. You will be here for at least five and half years pursuing the most difficult educational course ever designed in this world. It has been done so, understandably, as it deals with precious human life.

So, you will spend next four and half years learning the intricacies of human body and mind, various diseases, which can develop and treatment modalities at our disposal. Next one year you will spend applying that knowledge actually dealing with patients. My advice to you is, never deal with these patients as mere storehouse of diseases, but to treat them as human beings like us who are in distress.

As you will experience, we, in our institute give the students a chance to develop their all round personalities. To this end we have excellent faculty who will teach you the syllabus. We have an excellent research cell to make you understand the basic nuances of scientific research; we have a vibrant student's welfare association including hobby lobby, music, sports, cultural committees, etc, for you to develop your personality.

I advise you to take full advantage of the entire faculty to the best of your ability.

I exhort you to make the best of these days you will spend here with us, as I know that later in life you will realize these were the best days of your life.

A word of caution – we are very strict with all the rules and regulations of the institute. We have 'zero' tolerance for any act of indiscipline. When you are here, please, remember this.

Dr. Kajal Mitra
Dean
NKP SIMS & RC, Nagpur

UNDER GRADUATE CELL

Undergraduate (UG) Cell of NKP SIMS primarily maintains record of attendance and academic performance of MBBS students.

UG cell also believes in overall growth of each individual MBBS student. Keeping this in mind it also organizes co curricular activities in the form of communication skills workshops, personality development programmes, anti ragging activities etc.

UG cell NKPSIMS & RC organizes regular parents teachers meetings for all MBBS students where parents are taken into confidence about their wards attendance and academic performance.

NKP SIMS is one of the very few colleges in Maharashtra where regular workshops on communication skills are conducted in 3 parts I , II, III for I MBBS, II MBBS & Final MBBS students

UG cell is taking all the efforts to keep the NKPSIMS campus ragging free. Every year various anti-ragging programmes are organized in the form of guest lectures by Senior Police Personnel & Hon. Judges. Students are encouraged to take part in anti ragging wall painting & slogan competitions.

Office : 07104-665006

email: nkpsimsugcell106@gmail.com

Members :

Sr. No.	Name of Persons	Post	Phone No.
1.	Dr. Madhur Gupta	Incharge	09422782291
2.	Dr. Neena Nagdeo	Dy. Incharge	09422113603
3.	Mr. Mithilesh Bhagde	Office-Incharge	09860952792
4.	Dr. Deepali Onkar	Member	09822248570
5.	Dr. Shubhada Gade	Member	09422101571
6.	Dr. Archana Nikose	Member	09422875865
7.	Dr. Anuja Bhalerao	Member	09823680572

DEPARTMENTAL INFORMATION

Teaching Staff - ANATOMY

Dr. Deepali P. Onkar	Professor & HOD	9822248570
Dr. Rajesh N. Dehankar	Associate Professor	9552176486
Dr. Manjusha K. Tabhane	Associate Professor	9422255177
Dr. Sanjay M. Walulkar	Associate Professor	9822708712
Dr. Mukund D. Huddar	Assistant Professor	9225342073
Dr. Anant C. Fulse	Assistant Professor	9421814932
Dr. Purvi D. Mishra	Assistant Professor	9823653840
Dr. Mohd. Saleem Mohd. Basheer	Assistant Professor	9371199784
Dr. Pranjali Rathod	Assistant Professor	7020951648

Teaching Staff - PHYSIOLOGY

Dr. M. V. Sawane	Prof. & HOD	9822362835
Dr. A.A. Date	Associate Professor	9970034944
Dr. Rakhee Ambade	Associate Professor	9823090322
Dr..Shubhada A. Gade	Associate Professor	9422101571
Dr.A.Sahasrabuddhe	Assistant Professor	9225225139
Dr. M.S.Walulkar	Assistant Professor	9850118491
Dr. Tanseem J. Ansari	Assistant Professor	9823377612
Dr. Bhavana Bhirud	Tutor	8983327895

Teaching Staff - BIOCHEMISTRY

Dr. Madhur Gupta	Prof. & HOD	9422782291
Dr. Suresh Chari	Professor	9422109500
Dr. Smita Pakhmode (Narad)	Associate Professor	9423682499
Dr. Manju Chandankhede	Assistant Professor	9823081342
Dr. Aishwarya Rewatkar	Assistant Professor	9822577331
Dr. U. Satya Devi	Assistant Professor	9422315824
Dr. Sumedha Bhasme	Assistant Professor	9730674451
Dr. Prafulkumar Ramteke	Assistant Professor	8329478951
Dr. Sheel Thorat	Tutor	9823841327
Dr. Jidnyasa Mankar	Tutor	9146983760

Teaching Staff - COMMUNITY MEDICINE

Dr. A. V. Saoji	Prof. & HOD	9822715183
Dr. Anirudha. Deoke	Professor	9422155266
Dr.Meenal Kulkarni	Asso. Professor	9922949668
Dr. M. P. Joshi	Asso. Professor	9822943379
Dr. Lata Tapnikar	Asso. Professor	9823999424
Mr. J. G. Nayse (Stat.)	Stat. Lecturer	9422840498
Dr. Shilpa Hajare	Asst. Professor	9823875675
Dr.Leena Balpande	Asst. Professor	9753042408
Dr. Ketan Dagdiya	Asst. Professor	8830333849
Dr. Sayli Bhagat	Asst. Professor	7507950265



N. K. P. SALVE INSTITUTE OF MEDICAL SCIENCES & RESEARCH CENTRE, DIGDOH HILLS, NAGPUR.

TIME TABLE FOR FIRST M. B. B. S (2020 BATCH)

(w. e. f. 02/02/2021)

Day/Time	9-10	10-11	11-12	12-1	1-2	2-3	3-4	4-5
Monday	Anat Th	Phy / Biochem ECE			LUNCH	Anat Th	Anat Pract	Anat Pract
Tuesday	Bio Th	Anat Th	Anat Pract	Anat Pract		Phy	Bio Pract / Physio Prac	
Wednesday	Phy Th	Bio Th	Bio Pract / Physio Prac			Anat Th	Anat Pract	Anat Pract
Thursday	Anat Th	Anat Th	Anat Pract	Anat Pract		Phy	Bio Pract / Physio Prac	
Friday	Phy Th	Bio Th	Bio Pract / Physio Prac			Phy Th	Anat Pract	Anat Pract
Saturday	Anat Th	Anat Pract	Phy Th	Phy Th/comm. Med Th				

ASSESSMENT PATTERN OF 1ST MBBS

INTERNAL ASSESSMENT

The structure of the internal assessment theory examinations will be similar to the structure of University examination.

It is mandatory for the students to appear for all the three internal assessment examination.

Sr.No.	I-Exam			II- Exam		
	Theory	Practical (Including 05 Marks for Journal & Log Book	Total Marks	Theory	Practical (Including 05 Marks for Journal & Log Book	Total Marks
1	100	50	150	100	50	150

There will be two Parent-Teacher meetings in a year. These will be conducted after first and second internal assessment exams.

Sr.No.	Preliminary Exam III-Exam			Remedial Exam after University Exam.		
	Theory	Practical (Including 10 Marks for Journal & Log Book	Total Marks	Theory	Practical (Including 10 Marks for Journal & Log Book	Total Marks
1	200	100	300	200	100	300

- The student who scores 40 % marks separately in Theory & Practical internal assessment examinations is eligible to appear for University Examinations.
- It is mandatory to secure at least 50% marks of the total marks (combined in theory & practical) assigned for internal assessment in the particular subject in order to be declared successful at the final University Examination of that subject.

Calculation:

	1 st I.A.	2 nd I.A.	3 rd I.A.	Total	Internal assessment marks: conversion formula (out of 40)	Eligibility to appear for final University Examination (after conversion out of 40)	Minimum marks to be obtained to declare the final University examination result (out of 80 combined in theory and practical
Theory	100	100	200	400	Total marks /10	16	40
Practical	50	50	100	200	Total marks /5	16	

REMEDIAL INTERNAL EXAMINATION FOR STUDENTS:

- Applicable for students who did not score aggregate 50% (combined in theory and practical) for the subject. Remedial internal assessment will be organized by the college immediately after the completion of University exam of the affected students.

UNIVERSITY EXAM

1. Separate passing in Theory and Practical
2. Internal assessment marks will reflect as separate head
3. Exam will be conducted for Anatomy, Physiology and Biochemistry
4. For each subject there will be two papers of 200 marks and practical of 100 marks
5. In subject having two papers, learner must secure at least 40% marks in each paper with minimum 50% marks in aggregate (both together) to pass.

For further details, visit MUHS website : www.muhs.ac.in

EXAMINATION CELL

All examination related matters are handled by Examination cell for the smooth conduction of examination and to refrain the students from copying.

Sr. No.	Name	Department	Designation
01	Dr. D. P. Onkar	Anatomy	In-charge
02	Dr. A. R. Deoke	Community Medicine	Deputy In-charge
03	Dr. R. N. Dehankar	Anatomy	Deputy In-charge
04	Dr.T. R. Shende	Pharmacology	Member
05	Dr. S. M. Waluilkar	Anatomy	Member
06	Dr. Rakhi Tirpude	Physiology	Member
07	Dr. Ujjwala Dehankar	Microbiology	Member
08	Dr. M. S. Walulkar	Physiology	Member
09	Dr. Shailesh Wakde	Forensic Medicine	Member
10	Dr. Vidula Gowardhan	Pathology	Member

RULES FOR THE INTERNAL EXAMINATIONS:

- If a student is caught with mobile during exam, their mobiles will be seized for 6 months.
- If a student is caught with microxerox / chits / mobiles, 50% marks will be deducted from that paper.
- Parents will be informed.
- Students will have to follow dress code during Internal Theory Exam.

DRESS CODE DURING THEORY EXAMINATION:

- No permission for Aprons, Money purse, wallet, Cap, Sunglasses
- No permission for Mobiles, watches, Head phones or any other electronic equipment
- Use Transparent writing Pad, Transparent Pouches & Transparent Water Bottles
- No permission for Shoes & Socks, use only chappal / slippers.

Dissection Hall



Laboratory



Museum

BOOKS RECOMMENDED

Dept of Anatomy

General Anatomy

1. General Anatomy BDC – 6th Ed. CBS
2. General Anatomy – Vishram Singh 3rd Ed. Elsevier
3. General Anatomy – A.K. Dutta

Gross Anatomy

1. Anatomy by - Vishram Singh 3rd Ed. Elsevier
2. Text book of Anatomy Vol. I, II, & III – I.B. Singh Jaypee
3. Chourasis's Human Anatomy - Vol. I, II, & III – CBS

Dissector

1. Grant's dissector Wolters Kluwer
2. Cunningham's manual of Practical Anatomy Vol. I, II, & III
3. Thieme Dissector Vol. I, II, & III Thieme

Embryology

1. Human Embryology – I.B. Singh Jaypee
2. Textbook of Embryology – Gangne Borate Thieme

Histology

1. Human Histology – I.B. Singh 9th Ed. Jaypee
2. Histology by – G.P. Pal
3. Histology by – Brijesh Kumar 2nd Ed. Wolter Kluwer
4. Histology by – Gunarsegaran

Osteology

1. Human Osteology – Nafis Ahmed Faruqui 3rd Ed.
2. Osteology – A.K. Dutta

Surface Anatomy & Radiology

1. Surface & Radiological Anatomy – A. Halim
2. Surface & Radiological Anatomy- Dr. Renu Chauhan Avichal Publishing company

Neuroanatomy

1. Textbook of Neuroanatomy – I. B. Singh 10th Ed. Jaypee
2. Neuroanatomy - by Vishram Singh
3. Neuroanatomy by – G.P. Pal

Reference Books –

1. Gray's Anatomy
2. Sahana's Human Anatomy
3. Regional Anatomy R. J. Last
4. Atlas of Human Histology – DIFORE
5. Surgical Anatomy – Mc Gregor
6. Histology – by Ham
7. Medical Embryology – Langman
8. Clinical Anatomy for Medical Students – Richard Snell
9. J.S.P. Lumbley et al – MCQ's in Anatomy.

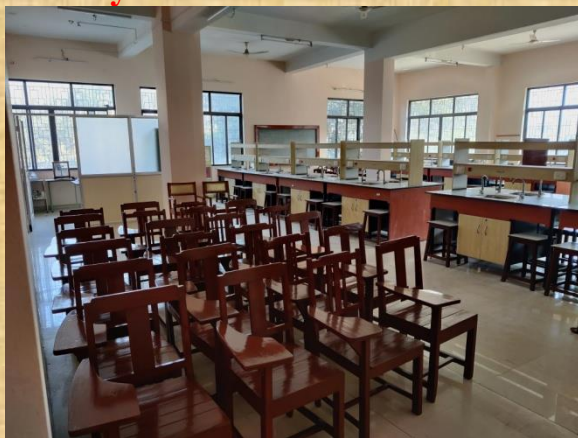
Textbook of Physiology

- G.K.Pal - Textbook of Physiology
- Guyton - Textbook of Physiology
- A.K.Jain - Textbook of Physiology
- Ganong - Review of Medical Physiology

Reference Books

- Best and Taylor – Physiological basis of medical practical
- Berne & levy – Principles of Physiology
- W.F.Boron – Textbook of Physiology
- S. Wright – Applied Physiology

Laboratory



Practical

- Raj Kapoor – Laboratory manual
- A.K.Jain – Practical manual for 1st MBBS

Textbooks of Biochemistry:

- Biochemistry for Medical students by D. M. Vasudevan & Shree Kumari.
- Biochemistry by Pankaja Naik.
- Harper's Biochemistry.
- Biochemistry by L. Stryer.
- Biochemistry by Orten & Neuhans.



Textbooks of Community Medicine:

Sr. No.	Author	Title of Book/Material
1.	Kulkarni A.P. and Baride J.P.	Text book of Community Medicine
2.	J. Park	Park's Textbook of Preventive and Social Medicine
3.	K. Mahajan	Principles of Preventive and Social Medicine
4.	B. ShridharRao	Textbook of Community Medicine
5.	Suresh Chandra.	Essentials of Community Medicine
6.	B.K. Mahajan	Textbook of Biostatistics
7.	V.R. Sheshubabu	Review in Community Medicine
8.	Dr. J.V. Dixit	Reference Book for Community Medicine: "Principles and practice of Biostatistics"
9.	Dr. A.M. Kadri	IAPSMs Text book of Community Medicine
10.	Dr. A.H. Suryakantha	Community Medicine with recent advances

CENTRAL LIBRARY

Library Timing & Procedures

1. Library Timing:

Mon.to.Fri. : 9.00 AM to 8.00 PM

Saturday : 9.00 AM to 5.00 PM

Sunday & Holidays: 11 AM to 5 PM

Reading Room timing: Everyday till 10 PM extended to 'Overnight' during exam

2. The books shall be issued on following days:

Mon.to.Fri.: 9.30 AM to 7.30 PM

Saturday : 9.30 AM to 4.30 PM

Sunday & Holidays: 11 AM to 4.30 PM

3. For membership of Library:

1. For becoming a member staff & students must fill up the respective membership forms & attach a coloured passport size photograph.

2. Library card cum I-Card will be issued to each member.

3. Book shall be issued only on production of library card. **Home issue : 2 books for 7 days and reading room issue : 2 books to be returned on the same day.**

4. In case of missing books inform Librarian immediately.

5. Library card is not transferable & books strictly will not be issued on other than personal card.

6. Reference Books like year book, encyclopedia, atlas and journals will not be issued out of Library. These can be referred in the Library reading room only.

7. Late Find will be charged as follows if the books are not returned on time.

Rs. 5/- day for home issue. Rs. 10/- day for reading room issue.

If asked by Library staff, the student must show library cum I-Card, in case a student does not produce it, he/she not be permitted to enter into the library.

8. In case of loss of library card the new card will be issued on payment of Rs.50/-

RAGGINGTHE ANTI SOCIAL EVIL

What is ragging?

“ Ragging ” includes the following: Any conduct whether by words spoken or written or by an act which has the effect of harassing, teasing, treating or handling with rudeness to any other student, indulging in rowdy or undisciplined activities which causes or is likely to cause annoyance, hardship or psychological harm or to raise fear or apprehension thereof in a fresher or a junior student or asking the students to do any act or perform something which such student will not in the ordinary course and which has the effect of causing or generating a sense of shame or embarrassment so as to adversely affect the physique or psyche of a fresher or a junior student.

What are the consequences of ragging ?

MCI in the year 2009 promulgated an act against this evil and called it the “ anti ragging act “. According to this act, ragging is strictly prohibited and is a criminal offence. Any person found performing the act of ragging or promoting or encouraging or influencing others into ragging is not beyond the punishments of the act.

Awardable Punishments: At the Medical College/ Institution level:

Depending upon the nature and gravity of the offence as established by the Anti-Ragging Committee of the institution, the possible punishments for those found guilty of ragging at the institution level shall be any one or any combination of the following.

- Suspension from attending classes and academic privileges.
- Withholding/ withdrawing scholarship/ fellowship and other benefits.
- Debarring from appearing in any test/ examination or other evaluation process.
- Withholding results.
- Debarring from representing the institution in any regional, national or international meet, tournament, youth festival, etc.
- Suspension/ expulsion from the hostel.
- Cancellation of admission.
- Rustication from the institution for period ranging from 1 to 4 semesters.
- Expulsion from the institution and consequent debarring from admission to any other institution for a specific period.
- Fine of Rs. 25,000/- to Rs. 1 lakh.
- Collective punishment: When the persons committing or abetting the crime of ragging are not identified, the institution shall give collective punishment.

Where to report ?

Any student, parent & teacher who identifies or even suspects ragging can inform in writing or telephonically to the chairman or any other member of the anti ragging committee or any teaching staff of the college. If the allegations are found correct then appropriate action will be taken by the anti ragging committee at the earliest.

ANTI RAGGING COMMITTEE [2020-21]

Sr. No.	Name	Designation		Mob. No.	E-Mail
1.	Dr Kajal Mitra	Dean	Chairperson	(O) 07104 – 244291 (M) 9371615705	mitrakajal@gmail.com nkpsims1@rediffmail.com
2.	Dr. V. R. Thombare	Vice Dean, NKPSIMS	Co-Chairperson	9850401857	drvthombare@rediffmail.com
3.	Dr. Suresh Chari	Director, IQAC	Member Secretary	9422109500	sureshchari2@gmail.com
4.	Dr. M. A. Akhtar	Director (Clinical Services) & MS	Member	9823148808	murtazaakhta27@gmail.com
5.	Dr. H. T. Kanade	Prof. & HOD. FMT	Member	9422802572	dr.h.t.kanade@gmail.com
6.	Dr. Sulbha Joshi	Prof. & HOD. OBGY	Member	9823286524	sulbhaajoshi@gmail.com
7.	Dr. Nilofer Mujawar	Prof. & HOD. Paediatric	Member	9823014275	nilofar.mujawar@gmail.com
8.	Dr. M. V. Sawane	Prof. & HOD, Physiology	Member	9822362835	manishsawane@yahoo.co.in
9.	Dr. Madhur Gupta	Prof. & HOD Biochemistry	Member	9422782291	drmadhur20@rediffmail.com
10.	Dr. Deepali Onkar	Prof. & HOD. Anatomy	Member	9822248570	drdeepalionkar@yahoo.com
11.	Dr. Aniruddha Deoke	Prof. Community Medicine & Teacher Incharge, Chairman, SWA	Member	9422155266	draniruddhadeoke@yahoo.co.in
12.	Dr. Satish Deshmukh	Asso. Prof. Surgery	Member	9823054522	drsatishdeshmukh90@yahoo.co.in
13.	Dr. Tanuja Manohar	Asso. Prof. Medicine	Member	9822706335	tanuja.manoharg@gmail.com
14.	Dr. Anne Wilkinson	Asso. Prof. Pathology	Member	9823269369	ann_cerry@yahoo.co.in
15.	Dr. Sushil Gawande	Asso. Prof. Psychiatry	Member	9322013915	sushil.gawande@rediffmail.com
16.	Dr. Arti Narde	Asso. Prof. FMT	Member	9881907277	artinarde@rediffmail.com
17.	Dr. Rakhi Tirpude (Ambade)	Asso. Prof. Physiology	Member	9823090322	rakheet@rediffmail.com
18.	Dr. Anuja Bhalerao	Professor, OBGY	Member	9823680572	anuja_bhalerao@yahoo.com
19.	Dr. Shilpa Hazare	Asst. Prof. Community Medicine	Member	9823875675	drshilpah@yahoo.com
20.	Dr. Bhavana Bhirud	Lecturer, Physiology	Member	8983327895	bhavanawarade@gmail.com
21.	Dr. Vandana Kokane	Co-Chairperson, Girls Hostel Committee			
22.	Mr. Pankaj Singh	Clinical Psychologist	Member	9423410923	pankajlakhansingh@gmail.com
23.	Mr. Pramod Varma	Chief Operating Officer (Hostel)	Member	8551012369	pramodvermanagpur@gmail.com
24.	Maj. Dr. Lokesh Gotmare	Senior Administrative Officer	Member	7038945955	dr.lokesh2001@gmail.com
25.	Mr. Vilas Khangan	Administrative Officer	Member	9823157099	vilaswkhangan@rediffmail.com
26.	All Wardens (Boys Hostel)	Mr. Amit Mahajan Mr. Sunil Nagrale	Member	9822398351 7620921477	mramitking@gmail.com

Sr. No.	Name	Designation		Mob. No.	E-Mail
		Mr. Vishal Kadu		9822277423	
	All Wardens (Girls Hostel)	Ms. Vandana Bondhate Ms. Chanda Singh Ms. Trupti Masram Smt. Deepti Chaubey Mrs. Yogita Charpe Ms. Suwarna Pawade Smt. Neeta Wagh	Member	9209499818 9175323859 9665659305 9637497800 8888039179 9527295758 8378007117	
27.	Mr. Sandeep Patil	Security Incharge	Member	9561508197	vspm.safetydept@gmail.com
28.	President, SWA	Mr. Ketan Dekate	Member	8668566314	ketandekate24@gmail.com
29.	Secretary, SWA	Mr. Arvind Dandade	Member	8379876816	
30.	Class Representatives				
	First MBBS	1. Mr. Kamlesh Motwani (2019)	Member	8956434646	kamleshmotwani04@gmail.com
	Second MBBS	2. Mr. Rutwij Kavar (2018)	Member	9011410033	rutwijkavar11@gmail.com
	Third MBBS	3. Mr. Pratik Choudhary (2017)	Member	8208080579	pratikchaudhary22@yahoo.in
	Final MBBS	4. Mr. Suyog Chikhle (2016)	Member	9075734335	chikhalesuyog30@gmail.com
31.	Special Invitees :- Representative of Police Commissioner		Member		
32.	Parents	Dr. Nandu Kolwadkar Dr. Anjali Patrikar	Member	9370996797 9823085809	
33.	Mr. Deepak Minaria, NGO (Social)		Member	9823058166	

HOSTEL WARDEN

	Name of Warden	Designation	Mobile No.	Name of Hostel	Landline
Girls Hostel	Mrs. Chanda Singh	Warden	8669887094	Vainganga Hostel	230
	Mrs. Trupti Masram	Warden	9665659305	Hindsagar/Gangasagar Hostel	242
	Mrs. Yogita Charpe	Warden	8888039179	Narmada Hostel	227
	Mrs. Diptee Chaubey	Warden	9637497800	Tapi Girls Hostel	229
	Ms. Suwarna Pawade	Warden	9527295758	Kanchanganga Hostel	236
	Mrs. Neeta Wagh	Warden	8999003105	Vindhychal PG Girls Hostel	297
Boys Hostel	Mr. Amit Mahajan	Coordinator	9588615051	Hostel Office	226
	Mr. Vishal Kadu	Warden	9822277423	Sahyadri Boys Hostel	232
	Mr. Sunil Nagrale	Warden	7038908348	Vindhyachal PG Boys Hostel Satpuda Boys Hostel	297



Student Welfare Association 2019-20

A platform for the students to showcase their extra-curricular activities.

Patron- Dean Dr Kajal Mitra

Advisors:

- Dr Vilas Thombare, Vice Dean
- Dr .Nitin Deosthale, PG Cell Co-Incharge

Chairperson: Dr Aniruddha Deoke

Co-Chairperson: Dr Arti Kasulkar

Cultural Committee.: Incharge Dr Anne Wilkinson, Co-Incharge- Dr Sushrut Fulare

Hobby Lobby Committee: Incharge: Dr. Kalpana Date, Co-Incharge; Dr. Rakhee Tirpude

Music Committee.: Incharge: Dr Shubhda Gade

Sports Committee.: Incharge: Dr Rajesh Dehankar

Debate & Publications Committee :Incharge: Dr Anagha Sahasrabudhe

Students Grievances Committee : Dr. Sunanda Chaoji



HOSPITAL





Opportunities don't happen. You create them.