

## 4.2.3.1 LIST OF LABORATORY ACTIVITIES YEAR WISE

Course	Subject-wise Laboratory	2021-2022	2020-2021	2019-2020	2018-2019	2017-2018
<b>1<sup>st</sup> MBBS</b>	Anatomy	150	100	100	100	99
	Physiology Clinical Lab	150	100	100	100	99
	Haematology Lab	150	100	100	100	99
	Biochemistry Lab	150	100	100	100	99
<b>2<sup>nd</sup> MBBS</b>	Clinical Pharmacology	100	100	100	99	99
	Computer Assisted Lab	100	100	100	99	99
	Herbal Garden	100	100	100	99	99
	Animal House	100	100	100	99	99
	Clinical Pathology	100	100	100	99	99
	Histopathology	100	100	100	99	99
	Microbiology Lab	100	100	100	99	99
	FMT Lab	100	100	100	99	99
	PSM Lab	100	100	100	99	99
<b>1<sup>st</sup> /2<sup>nd</sup> / 3<sup>rd</sup> MBBS</b>	Skill Lab	150	100	100	100	99
<b>Total no.of students exposed to labs</b>		<b>1650</b>	<b>1400</b>	<b>1400</b>	<b>1391</b>	<b>1386</b>

  
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Department	Year	Laboratory activities for students	
<b>ANATOMY</b>	<b>2021</b>	General histology	
		Systemic histology	
		Dissection (upper and lower limb , thorax , abdopelvis , hnf) ( <b>new</b> )	
	<b>2020</b>	General histology	
		Systemic histology	
		Dissection (upper and lower limb , thorax , abdopelvis , hnf) ( <b>new</b> )	
	<b>2019</b>	General histology	
		Systemic histology	
		Dissection (upper and lower limb , thorax , abdopelvis , hnf) ( <b>new</b> )	
	<b>2018</b>	General histology	
		Systemic histology	
	<b>2017</b>	General histology	
		Systemic histology	
	<b>PHYSIOLOGY</b>	<b>2021</b>	Haematology
			Clinical experiments on humans
Clinical experiments on amphibians			
Human physiological charts and calculations ( new)( semen analysis , anthropometric assessment of infants,tpr chart )			
<b>2020</b>		Haematology	
		Clinical experiments on humans	
		Clinical experiments on amphibians	
		Human physiological charts and calculations ( new)( semen analysis , anthropometric assessment of infants,tpr chart )	
<b>2019</b>		Haematology	
		Clinical experiments on humans	
		Clinical experiments on amphibians	
		Human physiological charts and calculations ( new)( semen analysis , anthropometric assessment of infants,tpr chart )	
<b>2018</b>		Haematology	
		Clinical experiments on humans	
		Clinical experiments on amphibians	
		Human physiological charts and calculations	
<b>2017</b>	Haematology		
	Clinical experiments on humans		
	Clinical experiments on amphibians		
	Human physiological charts and calculations		
<b>BIOCHEMISTRY</b>	<b>2021</b>	Qualitative experiments	
		Quantitative experiments	
		Lab apparatus ( new)	

  
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		Sample collection ( new)
		Biomedical waste management(new )
		Safe lab practices ( new)
		ABG analyser( new)
		Auto analyser ( new)
		Quality control etc( new)
	<b>2020</b>	Qualitative experiments
		Quantitative experiments
		Lab apparatus ( new)
		Sample collection ( new)
		Biomedical waste management(new )
		Safe lab practices ( new)
		ABG analyser( new)
		Auto analyser ( new)
		Quality control etc( new)
	<b>2019</b>	Qualitative experiments
		Quantitative experiments
		Lab apparatus ( new)
		Sample collection ( new)
		Biomedical waste management(new )
		Safe lab practices ( new)
		ABG analyser( new)
		Auto analyser ( new)
		Quality control etc( new)
	<b>2018</b>	Qualitative experiments
		Quantitative experiments
	<b>2017</b>	Qualitative experiments
		Quantitative experiments



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Tal. Chiplun, Dist. Ratnagiri

<b>PHARMACOLOGY</b>	<b>2020</b>	Introduction to Practical Pharmacology
		Prescription Writing
		Pharmacokinetics & Pharmacodynamics
		Routes of Administration : Oral
		Screening Techniques for New Drugs
		Adverse Drugs Reactions
		Rational Pharmacotherapy
		Source of Drugs Information
		Case Study
		Skills –Injection techniques
		P-Drug
		Communication skills
	<b>2019</b>	Introduction to Practical Pharmacology
		Prescription Writing
		Pharmacokinetics & Pharmacodynamics
		Routes of Administration : Oral
		Screening Techniques for New Drugs
		Adverse Drugs Reactions
		Rational Pharmacotherapy
		Source of Drugs Information
		Case Study
		Skills –Injection techniques
		P-Drug
		Communication skills
	<b>2018</b>	Introduction to Practical Pharmacology
		Prescription Writing
		Pharmacokinetics & Pharmacodynamics
		Routes of Administration : Oral
		Screening Techniques for New Drugs
		Adverse Drugs Reactions
		Rational Pharmacotherapy
		Source of Drugs Information
		Case Study
	<b>2017</b>	Introduction to Practical Pharmacology
		Prescription Writing
		Pharmacokinetics & Pharmacodynamics
		Routes of Administration : Oral
		Screening Techniques for New Drugs
		Adverse Drugs Reactions
		Rational Pharmacotherapy
		Source of Drugs Information
Case Study		
<b>2016</b>	Introduction to Practical Pharmacology	
	Prescription Writing	
	Pharmacokinetics & Pharmacodynamics	
	Routes of Administration : Oral	
	Screening Techniques for New Drugs	
	Adverse Drugs Reactions	
	Rational Pharmacotherapy	

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		Source of Drugs Information	
		Case Study	
<b>PATHOLOGY</b>	<b>2020</b>	Blood( haematology) experiments	
		Systemic pathology ( slides) examinations	
		Urine pathology	
		CSF examination	
		Circulatory disturbances (new)	
		Disturbances in pigment metabolism (new)	
		<b>2019</b>	Blood( haematology) experiments
	Systemic pathology ( slides) examinations		
	Urine pathology		
	CSF examination		
	Circulatory disturbances (new)		
	Disturbances in pigment metabolism (new)		
	<b>2018</b>	Blood( haematology) experiments	
		Systemic pathology ( slides) examinations	
		Urine pathology	
		CSF examination	
	<b>2017</b>	Blood( haematology) experiments	
		Systemic pathology ( slides) examinations	
		Urine pathology	
		CSF examination	
<b>2016</b>	Blood( haematology) experiments		
	Systemic pathology ( slides) examinations		
	Urine pathology		
	CSF examination		
<b>MICROBIOLOGY</b>	<b>2020</b>	ZN staining	
		Gram staining	
		Stool examination	
		Parasitology	
		systemic infections	
		General microbiology ( new)	
		Immunology( new)	
		Hospital infection control( new)	
		Hand hygiene( new)	
		PPE donning and doffing ( new)	
		<b>2019</b>	ZN staining
			Gram staining
			Stool examination
	Parasitology		
	systemic infections		
	General microbiology ( new)		
	Immunology( new)		
	Hospital infection control( new)		
	Hand hygiene( new)		
	PPE donning and doffing ( new)		

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	<b>2018</b>	General microbiology
		ZN staining
		Gram staining
		Stool examination
		Parasitology
		systemic infections
	<b>2017</b>	General microbiology
		ZN staining
		Gram staining
		Stool examination
		Parasitology
		systemic infections
	<b>2016</b>	General microbiology
		ZN staining
		Gram staining
		Stool examination
		Parasitology
		systemic infections

  
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## B Animal house –List of activity for students

DEPARTMENT	YEAR	LABORATORY ACTIVITIES FOR STUDENTS
<b>PHARMACOLOGY</b>	<b>2020</b>	Visit to Herbal garden
		Plantation of medicinal plant
		Workshop “explore healing Indian ancient plants”
		Competition –poster presentation on medicinal plants
		Bringing awareness of medicinal plant in community
	<b>2019</b>	Visit to Herbal garden
		Plantation of medicinal plant
	<b>2018</b>	Visit to Herbal garden
		Plantation of medicinal plant
	<b>2017</b>	Visit to Herbal garden
		Plantation of medicinal plant
	<b>2016</b>	Visit to Herbal garden
		Plantation of medicinal plant

  
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## SKILL LAB ACTIVITIES

**Johnson & Johnson** INSTITUTE



### JOHNSON AND JOHNSON INSTITUTE ON WHEEL SKILL LAB

**Basic Surgical Skill Training 18.03.2021 to 20.03.2021**



**JOHNSON and JOHNSON Institute on wheel skill lab**

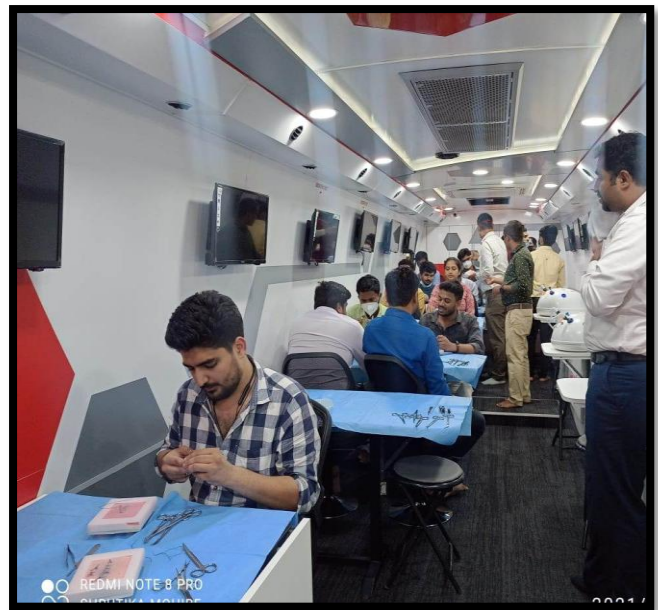
Basic surgical skill training was conducted at B.K.L.Walawalkar Rural Medical College on 18.03.2021 to 20.03.2021 from 9 am to 8 pm for MBBS Students and PG residents of Surgery, Gynaecology and Orthopaedics Department. The event was inaugurated by our Medical Director Dr. Suvarna Patil. The event was honored by the presence of Dr. Arvind Yadav, Professor of



*Suvarna Patil*  
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Biochemistry, Dr. Netaji Patil, Dr. Abhay Desai(Professor of Gen. Surgery), Dr. Amol Dharmadhikari (Cardiothoracic surgeon), Dr. Kiran Bahirawatkar (Ophthalmologist) Dr. Unmesh Santpur(HOD Ob-Gy)and Dr. Bharati Sharma (Assoc. Prof Ortho). In this session, our UG/PGs got an opportunity to do hands-on training on basic surgical skills such as suturing and knotting and vascular anastomosis. Also, turtle endotainers were provided to learn advanced surgical skills like



endosuturing. The event provided a great learning platform to our young surgeons for their future endeavors.



  
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## JOHNSON AND JOHNSON INSTITUTE ON WHEEL SKILL LAB Basic Surgical Skill Training 17.11.2022 to 19.11.2022

Basic surgical skill training was conducted at B.K.L.Walawalkar Rural Medical College on 17.11.2022 to 19.11.2022 from 8 am to 5 pm for MBBS Students, Interns and PG residents of Surgery, Gynecology and Orthopaedics Department.

The event was inaugurated by our college Principal Dr. Mansingrao N. Ghatage. The event was honored by the presence of Dr. Arvind Yadav, Professor of Biochemistry, Dr. Raghuv eer Bhosle (Professor of Gen. Surgery), Dr. Umesh Kakade (Associate Professor of Gen. Surgery), Dr. Umakant Valvekar (Obgy),

In this session, our UG/PGs got an opportunity to do hands-on training on basic surgical skills such as suturing and knotting and vascular anastomosis. Also, turtle endotainers were provided to learn advanced surgical skills like endosuturing.

The workshop included basic of gloving, scrubbing, draping along with lecture on different types of suture materials, knots, participants were given hands on training of knot and different types of suturing techniques.

The overall feedback of participants concluded that the workshop was helpful in clearing the doubts about suturing techniques.





## Summary

Sr No	Date	Day	No. of Attended	Total
1	17.11.2022	Thursday	MBBS - 92 PG - 13 Faculty - 03	108
2	18.11.2022	Friday	MBBS - 129 PG - 06 OT technicians - 14	148
3	19.11.2022	Saturday	MBBS - 88 PG - 01 Nursing - 48 Intern - 16 Faculty - 01	154
<b>Grand Total</b>				<b>410</b>



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## C.Herbal Garden-list of activities for students

Workshop on-“**Explore Healing Indian Ancient Plants (Local Medicinal Plants)**”- Poster & Model making Competition was organized by Dept. of Pharmacology on 07<sup>th</sup> of June 2022 , 3-5 pm, in BKLW Rural Medical College, Sawarde.

The inauguration of workshop started with a warm welcome to the Guest of honor, **Dr.Jyoti Iyer** , Principal Dr. Dombele and judges Dr .Jyoti Iyer a leading Biotechnologist and Scientist , well known for her contribution on “Biosimilar Trastuzumab” which brought a revolutionary change in the cost effectiveness of Cancer treatment . A speech of encouragement was given by ma’am for the students to enhance their involvement in the field of Research as a career. Vote of thanks was given by Dr.Sunita Patil, Professor and Head dept. of Pharmacology.

The inauguration of poster and model competition was done by Cutting of Ribbon and Lamp Lightening by the dignitaries after which the workshop was open for the Guests and Judges for observation.

Wonderfully decorated Posters and Models were on display. 5 Local Plants having Medicinal Properties were selected for the workshop [Mango, Java Plum , Drumstick , Kokum , Indian Soapberry ].

Each Model and Poster was accompanied by a ‘sapling’ of the plant on display. These saplings were planted in the College premises post workshop.

Total Number of Participants: 30 {M.B.B.S = 23, BpTH= 7}

Total Number of Posters = 7

Total Number of Models = 7

Judges :

Dr.Avinash Waghmode	Prof & HOD Forensic Medicine
Dr. Prasanna Nakate	Prof & HOD Microbiology
Dr.Yogendra Shelke	Asso. Prof , Dept. of Microbiology

### **Results were announced on “21/06/2022 ”**

First Prize for Model Making	Simran Sawant
	Harsh Shingadia
First Prize for Poster Making	Jyoti Panjabi
	ShrutiMohite
Prize of Appreciation	Samruddhi Bhatade
	Anushka Jagtap

Students were awarded Certificates of Prize & a Certificate of participation was given to all the participants.

  
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## Molecular biology lab- activities

### BKL Walawalkar Hospital and Rural Medical College Programme for Basic Mol. Biol. workshop (1.5 days)

8-9 August 2020

<b>8<sup>th</sup> August 2020</b>		
10.00-10.30 am	Introduction to the workshop	Dr. Rita Mulherkar
10.30-11.15	What are Nucleic Acids?	Dr. Rita Mulherkar
TEA and discussion		
11.30-12.15	Common Molecular Biology techniques	Dr. ShrirangInamdar
12.15-13.30	Experiment 1 Blood collection and DNA isolation	Lab work
LUNCH		
14.30-17.30	Experiment 2 and 3 Restriction digestion, running Agarose gel; setting up PCR reaction	Lab work
<b>9<sup>th</sup> August 2020</b>		
10.00-11.00	Experiment 3 Running PCR reactions on Agarose gel	Lab work
11.00-11.30	Applications of Molecular Biology in medicine	Dr. ShrirangInamdar
11.30-12.00	Special Lecture on 'In-situ Hybridization and FISH'	Dr. Surendra Ghaskadbi

### Topics for Hands-on Techniques

Sr. No.	Topic
1	DNA isolation from PBMNCs and quantitation
2	DNA Agarose Gel Electrophoresis (AGE)
3	Restriction Enzyme Digestion using Restriction Endonucleases and molecular weight determination
4	Polymerase Chain Reaction (PCR) to amplify target DNA

  
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