

**Odisha University of Health Sciences
Dhanwantari Bhavan, Bhubaneswar, Odisha**

**LOG BOOK
For
POST GRADUATE STUDENTS**

Department of PHYSIOLOGY

Name of the Institution: _____

**Prepared by:
Log book Committee (Broad Specialties) 2023
OUHS, Bhubaneswar**

**ODISHA UNIVERSITY OF HEALTH SCIENCES,
DHANWANTARI BHAVAN, BHUBANESWAR.**

**LOG BOOK
for
POST GRADUATE STUDENTS**

Department of PHYSIOLOGY

Name of the Institution: _____

INDEX		
Sl. No.	Title	Page No.
1	Certificate	3
2	General Instructions	4
3	Personal profile of the student	5
4	Course details	6
5	Training details: Research, Methodology, BCBR, MET, BCLS, ACLS	7
6	Leave record	8
7	Academic participation & Publications	10
8	Internal Assessment	10
9	District Residency Programme	11-22
10	Structured training program schedule	23-24
11	Students seminar	25-33
12	Journal review	34-42
13	Laboratory work	43-51
14	Students symposium	52-53
14	Interdepartmental colloquium	54-58
15	UG teaching	59-62
16	Thesis work	63-64
17	Competencies to be learnt	65-68
18	Competency evaluation sheets	69-79
19	Students feedback	80-81
20	NMC prescribed students appraisal form (Annexure I)	82-83

CERTIFICATE

This is to certify that, this logbook contains bonafide work of
Dr. _____, a Post-Graduate
student of the Department of **PHYSIOLOGY** of
_____, Odisha for the session
_____.

Date:

Post Graduate Guide

Head of the Department

Dean & Principal

GENERAL INSTRUCTIONS:

This log book is intended to be a record of all the activities of Postgraduate students, as they perform and participate in the course, including training.

1. It shall solely be the responsibility of the student to ensure that, the desired entries are made in day-to-day basis and relevant documents if any are kept.
2. It shall be the responsibility of the HOD to ensure that, all students maintain their log books in an orderly manner.
3. Each student shall enter his/her leave record in the concerned section immediately after returning from leave.
4. The learners feedback form should be filled up before submitting the log book for the University Examination. It is expected that, students should give their feedback with all seriousness and help the University in improving and strengthening the Postgraduate education.
5. Submission of Logbook: The up-to-date log book is a pre-requisite for fill up of forms for the University Examination and hence the completed Logbook shall be submitted to the department when the same is asked for.
6. INSTRUCTIONS FOR FILLING THE LOG BOOK:

Please Note: All assessments would be in Likert's 5-point scale/score:	
Score	Interpretation
0	Poor
1	Below average
2	Average
3	Good
4	Very good

- a. All entries should be properly entered and duly signed from the Supervisor / Unit In charges / Guide / HOD, as required.
- b. Under Instructions from the Head of Department, suitable corrections can be incorporated.
- c. Research participation pertaining to Conferences, Poster / Oral presentation and publication shall be entered directly in a Consolidated form.
- d. At the end of training, it's mandatory to fill up the feedback form and submit it to Postgraduate Office.
- e. It is an integral part of practical evaluation in the University examination.
- f. After the practical examination it shall be returned back to the student.
- g. There would be periodic evaluation regarding maintenance of log book by Postgraduate education office, and in case of any deficiency, the student would be responsible and suitable action may be taken against them for the same.
- h. Additional pages [if required] can be added.

PERSONAL PROFILE OF THE STUDENT:

Name:		Paste your PP size Photograph
Address:		
E-mail ID:		
Phone No.:		
DOB (dd/mm/yy):		
Blood group:		
Vaccination status:		

Registration Number:	Name of the Medical Council:	Valid up to:

OUHS Registration Number:	
----------------------------------	--

Qualification Details	College	University	Month & Year of completion
MBBS			

Experience before joining:

Designation	Department	Institution	From	To

Date:

Signature of the PG student

COURSE DETAILS:

Degree / Diploma			
Date of Joining		Date of completion	

Details of Postings [as per Curriculum by NMC]:

Unit / Specialty / Section	Year of PGT	From	To	Duration

PARTICIPATION IN RESEARCH METHODOLOGY TRAINING:

Name of the Institution	From	To	Signature of the Guide / HOD

PARTICIPATION INBCBR COURSE

Name of the institute	Date of registration	Date the examination	Date of publication of result	Signature of the HOD

PARTICIPATION IN BCME TRAINING:

Name of the Institution	From	To	Signature of the HOD

PARTICIPATION IN BCLS / ACLS TRAINING:

Name of the Institution	From	To	Signature of the HOD

LEAVE RECORD:

Sl. No.	From	To	Reason:	Signature of the Unit Head
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
Total No. of Leaves				

Signature & Seal of the Head of Department

DETAILS OF PARTICIPATION IN ACADEMIC PROGRAMS:

Sl. No.	Date	Name of the Academic Program	International / National / State / Institutional Event	Organized by	Nature of participation [Delegate / Presentation if any]	Initials of the HOD
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

PUBLICATIONs	
Title:	
Authors:	
Name of the journal:	
Indexed in [NMC approved agency only]:	
Status of publication:	
Citation if published:	
Title:	
Authors:	
Name of the journal:	
Indexed in [NMC approved agency only]:	
Status of publication:	
Citation if published:	
Title:	
Authors:	
Name of the journal:	
Indexed in [NMC approved agency only]:	
Status of publication:	
Citation if published:	

Internal Assessment Results:

Year		Theory [100]	Practical/Clinical/ Oral [100]	Total out of 200 [%]
1 ST	I			
	II			
	III			
2 ND	I			
	II			
	III			
3 RD	I			
	Prelims			

Date:

Signature & Seal of the Head of Department

DETAILS OF THE DRP SCHEDULE [AS PER CURRICULUM BY NMC]:

Name of the Institution	Year of PGT	From	To	Duration

Sl. No.	Day / Date	Place of work	Nature of work	Activity learn [Should include: 1. Patient care / Diagnostic services as per the subject. 2. Health care Management activities both HR & Logistics, Communication skill. 3. Team work	Level of participation [Observation / Performs under observation / Performs independently]	Signature of the DRPC
1.						
2.						
3.						
4.						
5.						
6.						

7.						
8.						
9.						
10.						
11.						
12.						
13.						
14.						
15.						

16.						
17.						
18.						
19.						
20.						
21.						
22.						
23.						
24.						

25.						
26.						
27.						
28.						
29.						
30.						
31.						
32.						
33.						

34.						
35.						
36.						
37.						
38.						
39.						
40.						
41.						
42.						

43.						
44.						
45.						
46.						
47.						
48.						
49.						
50.						
51.						

52.						
53.						
54.						
55.						
56.						
57.						
58.						
59.						
60.						

61.						
62.						
63.						
64.						
65.						
66.						
67.						
68.						
69.						

70.						
71.						
72.						
73.						
74.						
75.						
76.						
77.						
78.						

79.						
80.						
81.						
82.						
83.						
84.						
85.						
86.						
87.						

88.						
89.						
90.						

REFLECTIONS

CERTIFICATE OF COMPLETION OF DISTRICT RESIDENCY PROGRAM

It is certified that Dr. _____ has
satisfactorily completed the District Residency program w.e.f. _____ to
_____. During his/her District Residency Program training at
_____ District, his / her performance has been reported to be
_____.

Department:

Date:

Place:

Signature of Guide / Mentor

Signature of Head of Department

Signature of the District Residency Program Coordinator

Signature of the Medical Superintendent

Signature of the CDM PHO

STRUCTURED TRAINING PROGRAM:

Teaching learning methods:

1. Lectures: at least 10 per year.
2. Student Seminar [Topic]: once in 1 – 2 weeks.
3. Journal club: once in 1 – 2 weeks.
4. Laboratory work / Bedside clinics: once in 1 – 2 weeks.
5. Student symposium: once quarterly.
6. Interdepartmental colloquium [monthly meetings with other department/s on topics of current/common interest or clinical cases.]: once monthly.
7. Rotational clinical / community / institutional postings:

Sl. No.	Department	Duration in days	Focus Area
1	Biochemistry	15	1. Auto & Semiauto Analyzer, Electrophoresis, Chromatography, RIA, Study of serum chemistry (proteins, Lipid, glucose, electrolytes, enzymes etc.) – 8 days 2. Constituents of normal and abnormal urine, liver function tests, Renal function tests, Gastric function tests – 7 days
2	Pharmacology	20	1. Animal House (to learn technique of Animal Handling, Blood sampling, anaesthesia, Euthanasia, effective Analgesia and infection control after surgery. Study of Animal behavior like eating, drinking, locomotion, sexual activity etc.) 2. Experimental Pharmacology lab to study ongoing animal experimental procedures including dissection for rat phrenic nerve hemidiaphragm and others – 10 days 2. Study various guidelines related to ethical use of animals in experiments. To study preparation of different animal models and various tests to study physiological parameters. – 15 days
3	Pathology	30	1. Blood bank - Cross matching, blood storage, Immunohistochemistry, Immunological tests – 15 days 2. Central Lab. - Tests for bleeding & clotting disorders, study of Haemopoietic Cells present in the Bone Marrow – 10 days 3. Semen analysis, determination of ovulation time by basal body temperature chart and pregnancy diagnostic tests – 5 days
4	Microbiology	10	1. Fluorescent microscopy, use of ELISA reader & Washer – 5 days 2. Immuno-physiology and other facilities available in the dept. – 5 days
5	Ophthalmology	15	1. Direct and indirect Ophthalmoscopy, Retinoscopy – 8 days 2. Slit lamp microscopy, Tonometry, Pachymetry, Study of corneal topology, Optometry, Auto-refractometer – 7 days
6	Tuberculosis & Chest Disease (Pulmona	15	1. Whole body plethysmography – 8 days 2. Bronchoscopy & other facilities available in the dept. – 7 days

	ry Medicine)		
7	ENT	15	1.Audiometry–7days 2.Oto-rhino-laryngoscopy,directandIndirectLaryngoscopy,BERA,BSAEP–8days
8	General Medicine	20	1.TMT,Holteranalysis,ABG,ECG–10days 2.EMG,NCV–10days
9	Psychiatr y	10	1.EEG 2.Biofeedback
1 0	Casualty	15	1.Toknowbasicsofhowtohandleemergency 2.Minorprocedures
	Total	165	

8. UG Teaching:

Evaluation of STUDENTS SEMINAR PRESENTATION:						
Guidelines for evaluation of Seminar Presentation						
SI. No.	Points to be considered					
1	Whether other relevant publications consulted					
2	Whether cross references have been consulted					
3	Completeness of preparation					
4	Clarity of Presentation					
5	Understanding of subject					
6	Ability to answer questions					
Corollary Grading in all checklists: Poor-0, Satisfactory-1, Average-2, Good-3, Very Good-4.						
SI. No.	Date	Seminar Topic	Presented / Participated	Average Grade*	Name of the Moderator	Initials of the Moderator
1						
2						
3						
4						
5						
6						

7						
8						
9						
10						
11						
12						
13						
14						
15						

16						
17						
18						
19						
20						
21						
22						
23						
24						

25						
26						
27						
28						
29						
30						
31						
32						
33						

34						
35						
36						
37						
38						
39						
40						
41						
42						

43						
44						
45						
46						
47						
48						
49						
50						
51						

52						
53						
54						
55						
56						
57						
58						
59						
60						

61						
62						
63						
64						
65						
66						
67						
68						
69						

70						
71						
72						

Evaluation of JOURNAL REVIEW PRESENTATION:						
Guidelines for evaluation of Journal Review Presentation						
Sl. No.	Points to be considered					
1	Article chosen is relevant and appropriate					
2	Extent of understanding of scope & objectives of the paper by the candidate					
3	Whether understood the Material, Methods, Observation and statistical analysis					
4	Whether cross references have been consulted					
5	Ability to respond to questions on the paper / subject					
6	Ability to analyse the paper and co-relate with the existing knowledge					
7	Ability to defend the paper					
8	Clarity of presentation					
Corollary Grading in all checklists: Poor-0, Satisfactory-1, Average-2, Good-3, Very Good-4.						
Sl. No.	Date	Journal Topic	Presented / Participated	Average Grade*	Name of the Moderator	Initials of the Moderator
1						
2						
3						
4						
5						

6						
7						
8						
9						
10						
11						
12						
13						
14						

15						
16						
17						
18						
19						
20						
21						
22						
23						

24						
25						
26						
27						
28						
29						
30						
31						
32						

33						
34						
35						
36						
37						
38						
39						
40						
41						

42						
43						
44						
45						
46						
47						
48						
49						
50						

51						
52						
53						
54						
55						
56						
57						
58						
59						

60						
61						
62						
63						
64						
65						
66						
67						
68						

69						
70						
71						
72						

Evaluation of LABORATORY WORK / BEDSIDE CLINIC:						
Guidelines for evaluation of Laboratory work / Interactive slide & gross seminar						
Sl. No.	Points to be considered					
1	Clarity of Presentation					
2	Completeness of history					
3	Ability to arrive at a differential diagnosis & diagnosis					
4	Ability to defend the diagnosis					
5	Ability to answer questions					
6	Understanding of subject					
Corollary Grading in all checklists: Poor-0, Satisfactory-1, Average-2, Good-3, Very Good-4.						
Sl. No.	Date	Topic	Presented / Participated	Average Grade*	Name of the Moderator	Initials of the Moderator
1						
2						
3						
4						
5						
6						

7						
8						
9						
10						
11						
12						
13						
14						
15						

16						
17						
18						
19						
20						
21						
22						
23						
24						

25						
26						
27						
28						
29						
30						
31						
32						
33						

34						
35						
36						
37						
38						
39						
40						
41						
42						

43						
44						
45						
46						
47						
48						
49						
50						
51						

52						
53						
54						
55						
56						
57						
58						
59						
60						

61						
62						
63						
64						
65						
66						
67						
68						
69						

70						
71						
72						

Evaluation of STUDENTS SYMPOSIUM:						
Guidelines for evaluation of Students symposium						
SI. No.	Points to be considered					
1	Whether other relevant publications consulted					
2	Whether cross references have been consulted					
3	Completeness of preparation					
4	Clarity of Presentation					
5	Understanding of subject					
6	Ability to answer questions					
Corollary Grading in all checklists: Poor-0, Satisfactory-1, Average-2, Good-3, Very Good-4.						
SI. No.	Date	Topic	Presented / Participated	Average Grade*	Name of the Moderator	Initials of the Moderator
1						
2						
3						
4						
5						
6						

7						
8						
9						
10						
11						
12						

Evaluation of INTERDEPARTMENTAL COLLOQUIUM [monthly meetings with other department/s on topics of current/common interest or clinical cases]

Guidelines for evaluation:

Sl. No.	Points to be considered
1	Basic idea of topic
2	Clarity of presentation
3	Order of presentation
4	Active participation in discussion
5	Ability to answer questions on the topic / case

Corollary Grading in all checklists: Poor-0, Satisfactory-1, Average-2, Good-3, Very Good-4.

Sl. No.	Date	Topic/Case	inference	Presentation / Participation	Initial of the HOD
1					
2					
3					
4					
5					
6					

7					
8					
9					
10					
11					
12					
13					
14					
15					

16					
17					
18					
19					
20					
21					
22					
23					
24					

25					
26					
27					
28					
29					
30					
31					
32					
33					

34					
35					
36					

Evaluation of UG Teaching Skills:						
Guidelines for evaluation of UG Teaching skills:						
SI. No.	Points to be considered					
1	Set induction					
2	learning objectives					
3	Introduction					
4	Presentation style [enjoyable / monotonous etc., specify]					
5	Attempts audience participation					
6	Answer the questions asked by the audience					
7	Use of AV aids appropriately					
8	Interaction with audience (students)					
9	Effectiveness of the talk					
10	Summary of the main points at the end					
Corollary Grading in all checklists: Poor-0, Satisfactory-1, Average-2, Good-3, Very Good-4.						
SI. No.	Date	Topic of teaching(competencies)	lecture / Practical / SGD/ Demos	Average Grade*	Name of the Supervising faculty	Initials of Guide/ Faculty
1						
2						
3						
4						

5						
6						
7						
8						
9						
10						
11						
12						
13						

14						
15						
16						
17						
18						
19						
20						
21						
22						

23						
24						

THESIS

(To be submitted for registration of the Thesis topic within six months from the date of joining the course.)

Title of the Topic:

Name of the Guide:

Name of the Co-guide(s) if any:

Guidelines for evaluation of Thesis [Synopsis]				
Sl. No.	Points to be considered			
1	Interest shown in selecting a topic			
2	Appropriate review of literature			
3	Discussion with guide and other faculty			
4	Quality of protocol			
5	Preparation of proforma			
Corollary Grading in all checklists: Poor-0, Satisfactory-1, Average-2, Good-3, Very Good-4.				
Evaluation of Thesis [Synopsis]:				
Sl. No.	Date	Average Grade*	Name of the Faculty & Designation	Initials of the Faculty

Signature of the Candidate:

Signature of the Guide Signature of the HoD:

THESIS WORK

(To be filled before submitting the dissertation to the University & retained in this book)

Name of the Topic:

Name of the Guide(s):

Date of Registration of Thesis Topic:

Date of approval of the Thesis:

Date of Submission of Thesis:

PERIODIC EVALUATION OF THESIS WORK

Guidelines for periodic evaluation of Thesis			
Sl. No.	Points to be considered		
1	Periodic consultation with guide / co-guide		
2	Regular collection of case material		
3	Discussion with guide / co-guide		
4	Departmental presentation of progress of work		
5	Assessment of final output		
6	Others		
Corollary Grading in all checklists: Poor-0, Satisfactory-1, Average-2, Good-3, Very Good-4.			
Evaluation of Thesis:			
Date of the review	Average Grade*	Name of the members of the review committee	Initials of the Guide
12 th month			
18 th month			
24 th month			
30 th month			

Signature of the Candidate:

Signature of the Guide Signature of the HoD:

COMPETENCIES TO BE LEARNT:

Sr. No.	Competency	Perform under supervision/perform Independently/ Observation only
I.	HEMATOLOGY	
1.	Estimation of hemoglobin	Independently
2.	Determination of Total Erythrocyte (RBC) Count and RBC Indices (Blood Standards)	Independently
3.	Determination of Total Leucocytes (WBC) Count: TLC	Independently
4.	Preparation of a peripheral Blood Smear and Determination of Differential Leukocyte Count: DLC	Independently
5.	Determination of Bleeding Time (BT) and Clotting Time (CT)	Independently
6.	Determination of Blood groups (A, B, O and Rh system)	Independently
7.	Determination of Erythrocyte Sedimentation Rate (ESR) and Packed cell volume (PCV)	Independently
8.	Determination of Osmotic Fragility of Red Blood Cells	Independently
9.	Determination of Arneht Count	Independently
10.	Reticulocyte count.	Independently
11.	Study of Haemopoietic Cells present in the Bone Marrow(Cell Identification)	Independently
12.	Determination of Absolute Eosinophil Count, Study of Haemopoietic Cells present in the Bone Marrow, Flow cytometry, Platelet functions, D Dimers, coagulation profile etc.	Observation only
II	AMPHIBIAN / ANIMAL EXPERIMENTS (by CAL)	
1.	Effect of temperature on simple muscle twitch.	Observation only
2.	Effect of increasing frequency of stimuli on skeletal muscle (genesis of Tetanus).	Observation only
3.	Effect of repeated stimuli on skeletal muscle (study of phenomenon of Fatigue).	Observation only
4.	Properties of cardiac muscle – Refractory period, All-or-None Law, extra-systole and compensatory pause, beneficial effect.	Observation only
5.	Effect of physiological variables on intact frog's heart.	Observation only
6.	Effect of two successive stimuli (of same strength) on skeletal muscle.	Observation only
7.	Effect of increasing strength of stimuli on skeletal muscle.	Observation only
8.	Effect of free load and after load on skeletal muscle. Study of isometric contraction in skeletal muscle. Determination of conduction velocity of sciatic nerve and effect of variables on it.	Observation only
9.	Regulation of Heart, Vagus dissection and effect of Vagal and WCL stimulation. Effect of pharmacological variables on intact frog's heart. Perfusion of isolated frog's heart-role of sodium, potassium, calcium ions and drugs.	Observation only
10.	General management of mammalian experiments. Recording of heart rate, blood pressure and respiration and study the effects of	Observation only

	<p>various factors; drugs; asphyxia; occlusion of common carotid artery.</p> <p>Effect of stimulation of central and peripheral end of vagus on arterial blood pressure and respiration after vagotomy.</p> <p>Effect of stimulation and distension of carotid sinus on blood pressure and respiration.</p> <p>Effect of stimulation of splanchnic nerve.</p> <p>Effect of stimulation of peripheral somatic nerve (sciatic nerve).</p> <p>Study of hypovolemic shock and its reversal.</p> <p>Perfusion of isolated mammalian heart and study the effects of drugs and ions.</p> <p>Recording of Isolated Intestinal movement and tone and studying the effect of drugs and ions.</p> <p>Study of various stages of menstrual cycle, cervical smear and vaginal smear.</p>	
III	HUMAN EXPERIMENT	
1.	<p>Clinical Physiology</p> <p>Detailed clinical examination of various systems.</p>	Independently
2.	<p>Nerve muscle physiology</p> <p>Ergography and hand grip spring dynamography and study of human fatigue.</p> <p>Recording of electromyography (EMG) and its application.</p> <p>Recording of nerve conduction.</p>	Independently
3.	<p>Cardiovascular system (CVS)</p> <ol style="list-style-type: none"> 1. Clinical examination of CVS 2. Examination of arterial & venous pulses 3. Recording of 12 leads Electrocardiography (ECG) and its interpretation 4. Measurements of arterial blood pressure and effect of head-up/head-down tilt 5. Measurement of blood flow 6. Heart rate variability 7. Ambulatory Blood pressure monitoring 	Independently
4.	<p>Respiratory system</p> <ol style="list-style-type: none"> 1. Clinical examination of respiratory system. 2. Stethography – study of respiratory movements and effect of various factors. 3. Assessment of respiratory functions (spirometry, vitalography) 4. Cardio pulmonary resuscitation (CPR) and Artificial respiration. 5. Gas analysis. 6. Measurement of BMR. 7. Cardio pulmonary resuscitation (CPR) and Artificial respiration. 	Independently
5.	<p>Gastrointestinal system:</p> <p>Clinical examination of abdomen.</p>	Independently
6.	<p>Nervous System including Special senses</p> <ol style="list-style-type: none"> 1. Clinical examination of the nervous system and its physiological basis. 	Independently

	<p>2. Examination of cranial nerves.</p> <p>3. Examination of sensory system.</p> <p>4. Examination of motor system including reflexes.</p> <p>5. Examination of higher mental functions.</p> <p>6. Clinical examination of special senses:</p> <p>(i) Smell and Taste</p> <p>(ii) Test for hearing to differentiate deafness</p> <p>(iii) Physiology of eye:</p> <p>(a) Clinical examination of the eye and pupillary reflex</p> <p>(b) Visual acuity</p> <p>(c) Perimetry – mapping out of visual field and blind spot</p> <p>(d) Accommodation</p> <p>(e) Color vision and color blindness</p> <p>(f) Fundoscopy</p>	
7.	<p>Good clinical practice, Humanities, Bioethics</p> <p>Basic life support and Cardiac life support.</p>	Independently
8.	<p>Recording of body temperature/effect of exposure to cold and hot environment</p>	Independently
9.	<p>Reaction (visual and auditory) and reflex time.</p> <p>Electroencephalography (EEG) and Polysomnography</p> <p>Autonomic Nervous System (ANS) Testing.</p> <p>Neuro-electrodiagnostic techniques: Nerve conduction study, Visual evoked potential (VEP), Brainstem auditory evoked potential (B.A.E.P), Somato-sensory evoked potential (SEP), Motor evoked potential (MEP).</p> <p>Use of various test batteries for psychological evaluation of subject.</p>	Independently
10.	<p>Sports Physiology</p> <p>Tests for physical fitness: Cardio – respiratory responses to steady state exercise using:</p> <p>(i) Body Composition</p> <p>(ii) Conducting the Clinical Exercise Test</p> <p>(iii) Harvard step test</p> <p>(iv) Bicycle Ergometry</p> <p>(v) Treadmill test for determination of VO₂ max</p>	Independently
11.	<p>Yoga and Meditation Physiology</p> <p>i. Physical, Mental and Emotional well being</p> <p>ii. Effect of yoga and pranayama on physiological parameters</p> <p>iii. Mindfulness</p> <p>iv. Concentration, anxiety and stress</p> <p>v. Counseling in health and diseases</p>	Perform under supervision
12.	<p>Construction of dietary chart for growing children, pregnant woman, elderly individuals, hypertensive patients, & diabetes mellitus patients.</p>	Independently
13	<p>Cardiovascular system (CVS)</p> <ul style="list-style-type: none"> • Echocardiography • Central venous line insertion, CVP monitoring <p>Respiratory system</p>	Observation only

	<ul style="list-style-type: none"> • Introduction to working of continuous positive airway pressure and • Bilevel positive airway pressure (CPAP & BiPAP) Therapy • Ventilator setting <p>Gastrointestinal system:</p> <ul style="list-style-type: none"> • GI Manometry <p>Reproductive system</p> <ul style="list-style-type: none"> • Ovulation study by using ultrasonography <p>Integrative Physiology / Excretory system</p> <ul style="list-style-type: none"> • Pressure and PH studies in esophagus, stomach, intestine and rectum 	
14	<p>Others</p> <ul style="list-style-type: none"> • Genetic testing and introduction to procedural skills for clinical genetics/ prenatal diagnosis/ adult genetics - birth defects, genetic hematology, dysmorphology, skeletal dysplasia, neurological and muscular disorders, primary immunodeficiency diseases, autoimmune and multi-factorial disorders, biology and genetics of cancer. • Interaction of human body in ambient environment - high altitude, space and deep sea • Integrated Physiology • Social responsibilities of physiologists • Application of Artificial Intelligence in Physiology 	Observation only
15.	<p>i. Cardiovascular system (CVS)</p> <ul style="list-style-type: none"> • Cardiac TMT Holter Monitoring • Collection and Assessment of Arterial blood gas <p>ii. Nervous System including Special senses</p> <ul style="list-style-type: none"> • Intra operative neuro monitoring (IONM) 	Observation only

Sl. No.	Competency addressed	Nature of Activity	Level of competency achieved}			Signature of the Faculty
			O	PS	PI	
O – Observed, PUS – Performed under supervision, PI – Performed independently						
1						
2						
3						
4						
5						
6						
7						
8						

9						
10						
11						
12						
13						
14						
15						
16						
17						

18						
19						
20						
21						
22						
23						
24						
25						
26						

27						
28						
29						
30						
31						
32						
33						
34						
35						

36						
37						
38						
39						
40						
41						
42						
43						
44						

45						
46						
47						
48						
49						
50						
51						
52						
53						

54						
55						
56						
57						
58						
59						
60						
61						
62						

63						
64						
65						
66						
67						
68						
69						
70						
71						

72						
73						
74						
75						
76						
77						
78						
79						
80						

81						
82						
83						
84						
85						
86						
87						
88						
89						

90						
91						
92						
93						
94						
95						
96						

FEEDBACK BY THE STUDENT

(To be filled up at the time of filling up of forms for University Examination. The filled up form is to be sent in a sealed envelope addressed to the Vice-Chancellor, OUHS, Bhubaneswar. It will be opened only after the student has passed.)

Name of Student:

Department:

Period of study: From _____ to _____

Due date of examination:

Date of submission of Thesis/Topic:

Name of Guide:

Name of H.O.D.:

- i. Do you think that, your goal of pursuing post-graduate education in the subject is achieved: Yes/No
- ii. Do you think that, you have been trained adequately by the department in:
 - a. Professional experience Yes/No
 - b. Academic teaching Yes/No
 - c. Recent advances Yes/No
 - d. Exposure to specialist from outside the institution Yes/No
 - e. Interaction with the patients Yes/No
 - f. Interaction with the colleagues Yes/No
 - g. Interaction with seniors Yes/No
 - h. Thesis/Research Yes/No
 - i. Article preparation Yes/No
 - j. Workshop Yes/No
 - k. Conferences Yes/No
 - l. C M E Yes/No
- iii. Do you think that, you have been trained as a fairly competent consultant: Yes/No
- iv. Were you harassed by your guide during the training period: Yes/No, if yes Name &Type:
- v. What was the attitude of HOD?:
- vi. What was attitude of other staff members:

- vii. Were you forced for anything by anybody: Money/Tuition/Gifts/Other/None, if yes then by Whom:

- viii. Any comment about interaction with other depts./colleague:
- ix. Hostel:
- x. Extra-curricular activity
- a. Sports
 - b. Cultural
- xi. Teaching aids:
- xii. Library:
- a. Central
 - b. Department
- xiii. Work place safety:
- xiv. Deficiencies you would like to point out particularly:
- xv. Brief comments:

Student appraisal form for MD in Physiology

	Elements	Less than Satisfactory			Satisfactory			More than satisfactory			Comments
		1	2	3	4	5	6	7	8	9	
1	Scholastic aptitude and learning										
1.1	Has knowledge appropriate for level of training										
1.2	Participation and contribution to learning activity (e.g., Journal Club, Seminars, CME etc)										
1.3	Conduct of research and other scholarly activity assigned (e.g Posters, publications etc.)										
1.4	Documentation of acquisition of competence (eg Log book)										
1.5	Performance in work based assessments										
1.6	Self-directed Learning										
2	Work related to training										
2.1	Practical skills that are appropriate for the level of training										
2.2	Respect for processes and procedures in the work space										
2.3	Ability to work with other members of the team										
2.4	Participation and compliance with the quality improvement process at the work environment										
2.5	Ability to record and document work accurately and appropriate for level of training										

3	Professional attributes											
3.1	Responsibility and accountability											
3.2	Contribution to growth of learning of the team											
3.3	Conduct that is ethically appropriate and respectful at all times											
4	Space for additional comments											
5	Disposition											
	Has this assessment pattern been discussed with the trainee?	Yes	No									
	If not explain.											
	Name and Signature of the assessee											
	Name and Signature of the assessor											
	Date											