

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code			Course Code		CO Code	LO Code	Format No. 4
		<i>E</i>	<i>0</i>	<i>3</i>	<i>5</i>	<i>0</i>	<i>1</i>	<i>1</i>	

COURSE NAME	Medical Electronics
CO Description	Explain the fundamentals Bio-electronics of human body.
LO Description	Define fundamentals of the biomedical.

SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
LO-01	Human cell Human cell ionization characteristics. Bio-electric potential: Origin, Resting and action potential, depolarization and repolarisation Blood cells Pathophysiology of blood cells, parameters: RBC,WBC,Platelets, ESR,Hb,MCV,MCH	Interactive classroom lecture, PPT, demonstration, quiz, assignments	Teacher will explain the contents and provide handouts to students. Teacher will conduct quiz/ assignments/ tutorial.	6	--	Text Books, PPT, Handouts, chalk board, charts. Videos lectures- NPTEL & others	

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
LO-01	Mid Semester Theory Exam/ Assignment	Student will be asked to (and/or): 1. State all or none law in respect of cell bio-potential. 2. Summarize electrode and the types of electrodes used in the bipolar measurement. 3. Show with necessary diagram the origin of bio potential. 4. List out the components of blood. 5. Define resting and action potential.	10	Question paper, Rating scale	Internal

		6. Draw and explain structure of the human cell.			
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ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

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				<i>E</i>	<i>0</i>	<i>3</i>	<i>5</i>	<i>0</i>		<i>1</i>	

COURSE NAME	Medical Electronics
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CO Description	Explain fundamentals of Bio-electronics of human body.
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LO Description	Classify the biomedical signals in human muscle.
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SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
LO-02	Cardiac muscle Electrophysiology of Heart Muscles Transmission of Cardiac impulse Brain Electrophysiology of Brain and neurons, Transmission of impulse, excitation of neurons, brain waves.	Interactive classroom lecture, PPT, demonstration, quiz, assignments, tutorial	Teacher will explain the contents and provide handouts to students. Teacher will conduct quiz/assignments/tutorial to make students practice their knowledge.	6	--	Text Books, PPT, Handouts, chalk board, charts, Numerical Problems Workbook	

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
LO-02	Mid Semester Theory Exam/ Assignment	<p>Student will be asked to(and/or):</p> <ol style="list-style-type: none"> How would you describe the term Conduction velocity? Define cardiac output. Find the cardiac output of a person if his heart rate is 72 BPM and stroke volume is 70ml. Explain the structure of neuron with help of diagram. Describe transmission of impulse across neurons. List out different types of brain waves. 	10	Question paper, Rating scale	Internal

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		<i>E</i>	<i>0</i>	<i>3</i>	<i>5</i>	<i>0</i>	<i>2</i>	<i>3</i>	

COURSE NAME	Medical Electronics
CO Description	Explain the working and principle of various therapeutic equipment.
LO Description	Illustrate the working of cardiac pacemakers, defibrillator and hearing aid.

SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
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LO-03	Therapeutic Equipment - Cardiac Implantable pacemakers- working principle with functional block diagram DC Defibrillator- working principle with functional block diagram, block diagram of microprocessor-based-defibrillator. Hearing aid- Working principle with functional block diagram	Interactive classroom lecture, PPT, demonstration, quiz, assignments, tutorial	Teacher will explain the contents and provide handouts to students. Teacher will conduct quiz/assignments/ tutorial to make students practice their knowledge.	7	--	Text Books, PPT, Handouts, chalk board, charts, Numerical Problems Workbook	
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SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
LO-03	End Semester Theory Exam	Student will be asked to <ol style="list-style-type: none"> 1. Interpret the need for using a cardiac pacemaker. 2. List the types of batteries used for implantable pacemaker. 3. Why do we require a synchronization function in defibrillator? 4. List the parts of pacemakers. 5. Draw the schematic diagram of a DC defibrillator. 6. Identify the advantages and disadvantages of DC defibrillator. 7. Describe functional block diagram of hearing aid. 	10	Rubrics/Rating scale	External

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					<i>E</i>	<i>0</i>	<i>3</i>	<i>5</i>	<i>0</i>		
COURSE NAME	Medical Electronics										
CO Description	Explain the working and principle of various therapeutic equipment.										
LO Description	Describe the working of diathermy, Laser therapy and electrotherapy.										
SCHEME OF STUDY											
S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required		Remarks			
LO-04	Diathermy- working principle with Functional block diagram of microwave diathermy machine. Laser Retinal photo-coagulator- Types of lasers and their therapeutic applications, Functional block diagram of Retinal photo-coagulator. Electrotherapy –Types of waveforms used, working principle with Functional block diagram of electrotherapeutic muscle stimulator.	Interactive classroom lecture, PPT, demonstration, quiz, assignments, tutorial	Teacher will explain the contents and provide handouts to students. Teacher will conduct assignments/ quiz/tutorial to make students practice their knowledge.	7	--	Text Books, PPT, Handouts, chalk board, charts, Video lecture- NPTEL and others.					
SCHEME OF ASSESSMENT											
S. No.	Method of Assessment	Description of Assessment		Maximum Marks	Resources Required			External / Internal			

LO-04	End Semester Theory Exam	<p>Student will be asked to(and/or):</p> <ol style="list-style-type: none"> 1. Write the principle of high frequency heat therapy. 2. State the term Diathermy. 3. Elaborate the working of microwave diathermy machine with the help of a simplified diagram. 4. List the applications of diathermy. 5. Explain the principle of heating using microwaves. 6. Mention the advantages and application of performing surgery using LASER in ophthalmology. 7. Elaborate the working of Retinal photo-coagulator with the help of a simplified diagram. 8. List out types of waveforms used in electrotherapy. 9. Explain the electrotherapeutic muscle stimulator with functional block diagram. 	10	Question paper, Rating scale	External
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					E	0	3	5	0		2	
COURSE NAME	Medical Electronics											
CO Description	Explain the working and principle of various therapeutic equipment.											
LO Description	Demonstrate the working of various therapeutic equipment.											
SCHEME OF STUDY												
S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks					
LO-05	Demonstration of hearing aid, Diathermy, Laser therapy and electrotherapy equipment.	Lab demonstration, PPT , hands on practice, lab assignments.	<ul style="list-style-type: none"> Teacher with support from lab staff will demonstrate the procedure of lab experiments. 	--	6	Lab manual, charts, Handouts, experimental trainer on instruments/kit.						
SCHEME OF ASSESSMENT												
S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal							
LO-05	Practical test in laboratory	Student will be asked to (and/or): <ol style="list-style-type: none"> Demonstrate the working of hearing aid, Diathermy, Laser therapy and electrotherapy equipment. 	10	Rubrics, Rating scale	Internal							
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)												

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME			Branch Code			Course Code		CO Code	LO Code	Format No. 4
					E	0	3	5	0		3	
COURSE NAME	Medical Electronics											
CO Description	Classify various medical measurement and analysis instruments.											
LO Description	Explain working of various blood constituents' measurement and analysis instruments.											
SCHEME OF STUDY												
S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. / Tut Hrs.	LRs Required	Remarks					
LO-06	Block Diagram of a Generalized Bio-Medical Instrument System Measurement and analysis Techniques: Coulter Blood cell counter- working principle with Functional block diagram. Various Blood parameters. Spectrophotometer- working principle with Functional block diagram. Analysis of blood.	Interactive classroom lecture, PPT, Video, Demonstration, quiz, assignments.	Teacher will explain the contents and provide handouts to students. Teacher will conduct assignments/ quiz/tutorial to make students practice their knowledge.	7	--	Text Books, PPT, Handouts, chalk board, charts, Video lecture- NPTEL and others. Arduino board						
SCHEME OF ASSESSMENT												
S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal							
LO-06	End Semester Theory Exam	Student will be asked to (and/or): 1. Write the physical principles based on which blood flow meters are constructed. 2. Discuss about the measurement of the blood cell using given counter. 3. Draw block diagram of Coulter Blood cell counter. 4. Write down Safety standards of medical instruments. 5. Explain the Spectrophotometer with functional block diagram. 6. Describe the analysis of blood using Spectrophotometer.	10	Question paper , Rating scale	External							

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

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		<i>E</i>	<i>0</i>	<i>3</i>	<i>5</i>	<i>0</i>	<i>3</i>	<i>7</i>	

COURSE NAME	Medical Electronics
CO Description	Classify various medical measurement and analysis instruments.
LO Description	Compare different non-invasive measurement methods.

SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
LO-07	Finger-tip Oximeter – Blood parameters measured by oximeter. Ultrasonic Doppler-shift based FHR measurement, advantages. BP measurement - Define systolic & diastolic pressure, Working principle of Mercury BP measurement machine, Digital BP measurement machine. Rheographic method of BP measurement.	Interactive classroom lecture, PPT, Video, demonstration, quiz, assignments.	Teacher will explain the contents and provide handouts to students. Teacher will conduct assignments/ quiz/tutorial to make students practice their knowledge.	7	--	Text Books, PPT, Handouts, chalk board, charts, Video lecture- NPTEL and others.	

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
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LO-07	End Semester Theory Exam	<p>Student will be asked to (and/or):</p> <ol style="list-style-type: none"> 1. State the principle behind Rheographic method of blood pressure measuring technique. 2. Elaborate the principle used in pulse rate measurement. 3. What are the typical values of blood pressure and pulse rate of an adult. 4. List the merits and demerits of given method of blood pressure measurement. 5. How is the pulse rate measured? 6. Describe the Ultrasonic Doppler-shift based FHR measurement. 	10	Question paper , Rating scale	External
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		<i>E</i>	<i>0</i>	<i>3</i>	<i>5</i>	<i>0</i>		<i>3</i>	<i>8</i>	

COURSE NAME	Medical Electronics
CO Description	Classify various medical measurement and analysis instruments.
LO Description	Demonstrate various medical measurement techniques.

SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. / Tut Hrs.	LRs Required	Remarks
LO-08	Demonstration of Finger-tip Oximeter, Mercury BP measurement machine, Digital BP measurement machine	Lab demonstration, PPT, hands on practice, lab assignments.	●Teacher with support from lab staff will demonstrate the procedure of lab experiments.	--	6	Lab manual, charts, Handouts, experimental trainer on instruments/kit.	

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
LO-08	Practical test in laboratory	<p>Student will be asked to</p> <ol style="list-style-type: none"> 1. Perform and measure reading of given Finger-tip Oximeter, Mercury BP measurement machine and Digital BP measurement machine. 2. Prepare report of different types and specification Finger-tip Oximeter, Mercury BP measurement machine and Digital BP measurement machine available in market. 	15	Rubrics, Rating scale	External

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		<i>E</i>	<i>0</i>	<i>3</i>	<i>5</i>	<i>0</i>	<i>4</i>	<i>9</i>	

COURSE NAME	Medical Electronics
CO Description	Identify the working of different bio potential recorders.
LO Description	Explain the working principle of ECG (Electro Cardio Graph).

SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
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LO-09	Bio potential Recorders: Block diagram of ECG, isolated preamplifier, ECG leads, effects of artefacts on ECG recordings, Multichannel ECG machine, specifications, Applications of ECG.	Interactive classroom lecture, PPT, Video, Demonstration, quiz, assignments.	Teacher will explain the contents and provide handouts to students. Teacher will conduct assignments/ quiz / tutorial to make students practice their knowledge.	7	--	Text Books, PPT, Handouts, chalk board, charts, Video lecture- NPTEL and others.	
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SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
LO-09	End Semester Theory Exam	<p>Student will be asked to (and/or):</p> <ol style="list-style-type: none"> 1. Define Lead. Name the type of leads used for ECG. 2. Name the electrodes used for recording ECG? 3. Construct the typical ECG waveform and mention the cause for first & second heart BTL 3 Applying Sounds. 4. Name the 10-20 lead system used in ECG recording. 5. Explain different lead system used in an ECG recorder. 6. Draw a typical ECG waveform. 7. Give the ECG Signal Characteristics. 	10	Question paper, Rating scale.	External

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)					
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OUTCOME

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COURSE NAME	Medical Electronics
CO Description	Identify the working of different bio potential recorders.
LO Description	Define the principle of EEG (Electro Encephalon Graph).

SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
LO-10	Block diagram of EEG machine, 10-20 electrode placement system for EEG, Evoked potential, specifications, applications, advantages and disadvantages.	Interactive classroom lecture, PPT, Video, demonstration, quiz, assignments.	Teacher will explain the contents and provide handouts to students. Teacher will conduct assignments/ quiz/tutorial to make students practice their knowledge.	6	--	Text Books, PPT, Handouts, chalk board, charts, Video lecture- NPTEL and others.	

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
LO-10	Mid Semester Theory Exam/ Assignment	<p>Student will be asked to(and/or):</p> <ol style="list-style-type: none"> 1. Assess the important bands of frequencies in EEG and their importance 2. Choose the various EEG signals with amplitude and frequencies. 3. List the names and frequency bands of EEG signals. 4. Enlist the electrodes used for recording EEG 5. Discuss in detail about the 10 – 20 lead system. 	10	Question paper , Rating scale.	Internal

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

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					<i>E</i>	<i>0</i>	<i>3</i>	<i>4</i>	<i>0</i>	<i>4</i>	
COURSE NAME	Medical Electronics										
CO Description	Identify the working of different bio potential recorders.										
LO Description	Demonstrate the working and recording of ECG and EEG.										
SCHEME OF STUDY											
S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required			Remarks		
LO-11	Demonstration, operation and recording of ECG and EEG machines.	Lab demonstration, PPT , hands on practice, lab assignments.	●Teacher with support from lab staff will demonstrate the procedure of lab experiments.	--	6	Lab manual, charts, Handouts, experimental trainer on instruments/kit.					
SCHEME OF ASSESSMENT											
S. No.	Method of Assessment	Description of Assessment			Maximum Marks	Resources Required			External / Internal		
LO-11	Practical test in laboratory	Student will be asked to <ol style="list-style-type: none"> Demonstrate the working of ECG and EEG machines. Prepare report of different types and specification of ECG and EEG machines available in market. 			15	Rubrics, Rating scale			External		

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

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		<i>E</i>	<i>0</i>	<i>3</i>	<i>4</i>	<i>0</i>	<i>5</i>	<i>14</i>	

COURSE NAME	Medical Electronics
CO Description	Compare various type of imaging systems of medical electronics.
LO Description	Differentiate between Endoscope and CT imaging.

SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
LO-12	Working principle of Imaging systems: Endoscope- Endoscope imaging machine, applications, specifications, advantages and disadvantages. Computerized tomography CT Scan- basic principle, block diagram of a typical CT imaging system, advantages, disadvantages and applications of CT imaging.	Interactive classroom lecture, PPT, Video, demonstration, quiz, assignments.	Teacher will explain the contents and provide handouts to students. Teacher will conduct assignments/ quiz/tutorial to make students practice their knowledge.	7	--	Text Books, PPT, Handouts, chalk board, charts, Video lecture- NPTEL and others.	

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
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LO-12	End Semester Theory Exam	Student will be asked to (and/or): <ol style="list-style-type: none"> 1. Label the parts of an Endoscope unit. 2. List application of Endoscopy 3. What are the functions of endoscopy unit? 4. Briefly explain the description of CT imaging system. 5. List advantages, disadvantages and applications of CT imaging. 	10	Question paper , Rating scale.	External
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		<i>E</i>	<i>0</i>	<i>3</i>	<i>4</i>	<i>0</i>	<i>5</i>	<i>13</i>	

COURSE NAME	Medical Electronics
CO Description	Compare various type of imaging systems of medical electronics.
LO Description	Explain the working principle of ultrasonography.

SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
LO-13	Ultrasonography -Properties of ultrasonic waves, Principles of imaging, basic components of imaging system, applications, advantages and disadvantages of Ultrasonic imaging.	Interactive classroom lecture, PPT, Video, demonstration, quiz, assignments.	Teacher will explain the contents and provide handouts to students. Teacher will conduct assignments / quiz / tutorial to make students practice their knowledge.	6	--	Text Books, PPT, Handouts, chalk board, charts, Video lecture- NPTEL and others.	

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
LO-13	End Semester Theory Exam	Student will be asked to (and/or): <ol style="list-style-type: none"> Express characteristic impedance in ultrasound. Summarize the advantages of an ultrasound imaging system. Distinguish between 'A' and 'B' mode of ultrasound imaging system. List applications, advantages and disadvantages of Ultrasonic imaging List different types probes and transducer of ultrasound imaging system. 	10	Question paper , Rating scale.	External

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		<i>E</i>	<i>0</i>	<i>3</i>	<i>4</i>	<i>0</i>	<i>5</i>	<i>14</i>	

COURSE NAME	Medical Electronics
CO Description	Compare various type of imaging systems of medical electronics.
LO Description	Demonstrate various medical imaging techniques.

SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
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LO-14	Demonstration of Endoscope, CT scan, Ultrasonography machine.	Lab demonstration, PPT , hands on practice, lab assignments.	●Teacher with support from lab staff will demonstrate the procedure of lab experiments.	--	6	Lab manual, charts, Handouts, experimental trainer on instruments/kit.	
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SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
LO-14	Practical test in laboratory	<p>Student will be asked to</p> <ol style="list-style-type: none"> Demonstrate the working of Endoscope, CT scan and Ultrasonography machine. List different types of Endoscope, CT scan and Ultrasonography machine system available in market. 	10	Rubrics, Rating scale	Internal

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

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