

# Department of Physics

## Morigaon College

### Teaching Plan (odd semester)

#### 1. First semester

Serial Number	Paper	Topic	Total number of Lectures	Professor assigned	Proposed time	Remark
1	Mathematical Physics PHY-HC-1016	Vector Calculus	25	Mr N.I. Ali Ahmed	1 <sup>st</sup> Oct 2021 -23 <sup>rd</sup> November 2021	
2	Mathematical Physics PHY-HC-1016	First and second order differential equation	17	Mr Hemanga J Sarmah	1 <sup>st</sup> Oct 2021 -1 <sup>st</sup> November 2021	
3	Mathematical Physics PHY-HC-1016	Orthogonal Co-ordinate system	06	Mr N.I. Ali Ahmed	15 <sup>th</sup> November 2021 - 2 <sup>nd</sup> December 2021	
4	Mathematical Physics PHY-HC-1016	Dirac Delta function	02	Mr Hemanga J Sarmah	5 <sup>th</sup> November 2021-8 <sup>th</sup> November 2021	
5	Mathematical Physics PHY-HC-1016	Introduction to Probability	04	Mr Hemanga J Sarmah	9 <sup>th</sup> Oct- 20 <sup>th</sup> November 2021	
6	Mathematical Physics PHY-HC-1016	Theory of Errors	06	Mr Hemanga J Sarmah	22 <sup>nd</sup> November 2021 - 10 <sup>th</sup> December 2021	
7	Mathematical Physics PHY-HC-1016	Programming lab (Practical)	20	Mr Hemanga J Sarmah	1 <sup>st</sup> November 2021-14 <sup>th</sup> February 2022	
8	Mechanics	Fundamental of	06	Mrs Kabita Sarmah	1 <sup>st</sup> Oct 2021 -1 <sup>st</sup>	

	PHY-HC-1026	dynamics			November 2021	
<b>9</b>	Mechanics PHY-HC-1026	Work and Energy	04	Mrs Kabita Sarmah	2 <sup>nd</sup> November 2021- 10 <sup>th</sup> November 2021	
<b>10</b>	Mechanics PHY-HC-1026	Collisions	03	Mrs Kabita Sarmah	11 <sup>th</sup> November 15 <sup>th</sup> November 2021	
<b>11</b>	Mechanics PHY-HC-1026	Rotational Motion	12	Mrs Kabita Sarmah	16 <sup>th</sup> November 2021- 8 <sup>th</sup> December 2021	
<b>12</b>	Mechanics PHY-HC-1026	Elasticity	03	Mr Hemanga J Sarmah	13 <sup>th</sup> December 2021-20 <sup>th</sup> December 2021	
<b>13</b>	Mechanics PHY-HC-1026	Fluid Motion	02	Mr Babul Talukdar	1 <sup>st</sup> Oct 2021 -8 <sup>th</sup> October 2021	
<b>14</b>	Mechanics PHY-HC-1026	Gravitational and central force of motion	08	Mr Babul Talukdar	21 <sup>st</sup> October 2021-2 <sup>nd</sup> November 2021	
<b>15</b>	Mechanics PHY-HC-1026	Oscillations	08	Mr Babul Talukdar	5 <sup>th</sup> November 2021-17 <sup>th</sup> November 2021	
<b>16</b>	Mechanics PHY-HC-1026	Non-inertial systems	04	Mr Babul Talukdar	20 <sup>th</sup> November 2021 -25 <sup>th</sup> November 2021	
<b>17</b>	Mechanics PHY-HC-1026	Special theory of relativity	10	Mr Babul Talukdar	26 <sup>th</sup> November 2021- 9 <sup>th</sup> December 2021	

<b>18</b>	Mechanics PHY-HC-1026	Laboratory	20	Mr B. Talukdar and Mrs K. Sarmah	1 <sup>st</sup> October 2021- 14 <sup>th</sup> February 24, 2022	
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## 2. Third Semester

Serial Number	Paper	Topic	Total number of Lectures	Professor assigned	Proposed time	Remark
1	Mathematical Physics-II PHY-HC-2016	Frobenius method and special functions	18	Mr Hemanga J Sarmah	1 <sup>st</sup> Oct 2021 -2 <sup>nd</sup> November 2021	
2	Mathematical Physics-II PHY-HC-2016	Partial differential equations	14	Mr Hemanga J Sarmah	5 <sup>th</sup> November 2021- 25 <sup>th</sup> November 2021	
3	Mathematical Physics-II PHY-HC-2016	Some special integrals	06	Mr Hemanga J Sarmah	26 <sup>th</sup> November 2021- 3 <sup>rd</sup> December 2021	
4	Mathematical Physics-II PHY-HC-2016	Matrix	15	Mr N.I. Ali Ahmed	1 <sup>st</sup> November 2021- 27 <sup>th</sup> December 2021	
5	Mathematical Physics-II PHY-HC-2016	Fourier Series	09	Mr Hemanga J Sarmah	6 <sup>th</sup> December 2021 - 16 <sup>th</sup> December 2021	
6	Mathematical Physics-II PHY-HC-2016	Laboratory work	20	Mr Hemanga J Sarmah	1 <sup>st</sup> October 2021- 14 <sup>th</sup> February 24, 2022	
7	Thermal Physics PHY-HC-3026	Introduction to thermodynamics	01	Mrs Kabita Sarmah	1st October 2021	
8	Thermal Physics PHY-HC-3026	Zeroth and first law of thermodynamics	08	Mrs Kabita Sarmah	4 <sup>th</sup> October 2021 — 25 <sup>th</sup> October 2021	
9	Thermal Physics	Second Law of	10	Mrs Kabita Sarmah	26 <sup>th</sup> October	

	PHY-HC-3026	thermodynamics			2021 - 11 <sup>th</sup> November 2021	
<b>10</b>	Thermal Physics PHY-HC-3026	Entropy	07	Mrs Kabita Sarmah	12 <sup>th</sup> November 2021 - 22 <sup>nd</sup> November 2021	
<b>11</b>	Thermal Physics PHY-HC-3026	Thermodynamic Potentials	07	Mrs Kabita Sarmah	23 <sup>rd</sup> November -3 <sup>rd</sup> December 2021	
<b>12</b>	Thermal Physics PHY-HC-3026	Maxwell's thermodynamic Relations	07	Mr Babul Talukdar	4 <sup>th</sup> December 2021- 13 <sup>th</sup> December 2021	
<b>13</b>	Thermal Physics PHY-HC-3026	Kinetic theory of gas  Distribution of velocities	07	Mr Babul Talukdar	14 <sup>th</sup> December 2021 - 24 <sup>th</sup> December 2021	
<b>14</b>	Thermal Physics PHY-HC-3026	Molecular Collisions	04	Mr Babul Talukdar	27 <sup>th</sup> December 2021- 6 <sup>th</sup> January 2022	
<b>15</b>	Thermal Physics PHY-HC-3026	Real Gases	10	Mr Babul Talukdar	7 <sup>th</sup> January 2021 - 21 January	
<b>16</b>	Thermal Physics PHY-HC-3026	Practical	20	Mr Babul Talukdar and Mr N.I. Ali Ahmed	1 <sup>st</sup> October 2021- 14 <sup>th</sup> February 24, 2022	
<b>17</b>	Digital System & Applications	Introduction to CRO	03	Mr N.I. Ali Ahmed	1 <sup>st</sup> October 2021 -8 <sup>th</sup> October 2021	
<b>18</b>	Digital System & Applications	Integrated Circuit	03	Mrs Kabita Sarmah	4 <sup>th</sup> December 2021- 13 <sup>th</sup> December 2021	
<b>19</b>	Digital System	Digital Circuits	06	Mr Hemanga J.	1 <sup>st</sup> October 2021 -28 <sup>th</sup>	

	& Applications			Sarmah	October 2021	
20	Digital System & Applications	Boolean Algebra	06	Mr Babul Talukdar	1 <sup>st</sup> October 2021 - 8 <sup>th</sup> October 2021	
21	Digital System & Applications	Digital Data processing circuits	04	Mr Hemanga J. Sarmah	9 <sup>th</sup> Oct- 20 <sup>th</sup> November 2021	
22	Digital System & Applications	Arithmetic Circuits	05	Mr Hemanga J. Sarmah	22 <sup>nd</sup> November 2021- 1 <sup>st</sup> December 2021	
23	Digital System & Applications	Sequential circuits	06	Mr Hemanga J. Sarmah	3 <sup>rd</sup> December 2021 - 16 <sup>th</sup> December 2021	
24	Digital System & Applications	Timers 555	03	Mr Hemanga J. Sarmah	17 <sup>th</sup> December 2021 - 22 <sup>nd</sup> December 2021	
25	Digital System & Applications	Shift Registers	02	Mr Hemanga J. Sarmah	23 <sup>rd</sup> December 2021 - 27 <sup>th</sup> December 2021	
26	Digital System & Applications	Counters	04	Mr Hemanga J. Sarmah	28 <sup>th</sup> December 2021 - 3 <sup>rd</sup> January 2022	
27	Digital System & Applications	Computer Organizations	06	Mr Hemanga J Sarmah	4 <sup>th</sup> January 2022 - 12 January 2022	
28	Digital System & Applications	Intel 8085 Microprocessors Architecture	08	Mr Hemanga J Sarmah	13 <sup>th</sup> January 2022 - 27 January 2022	
29	Digital System	Introduction to assembly	04	Mr Hemanga J Sarmah	28 <sup>th</sup> January	

	& Applications	language			2022 -14 <sup>th</sup> February 2022	
<b>30</b>	Digital System & Applications	Practicals	20	Mr Hemanga J Sarmah	1 <sup>st</sup> October 2021 -14 <sup>th</sup> February 2022	

### 3. Fifth Semester

Serial Number	Paper	Topic	Total number of Lectures	Professor assigned	Proposed time	Remark
1	Quantum Mechanics & Applications	Time dependent schrodinger equations	06	Mr N.I. Ali Ahmed	1 <sup>st</sup> Oct 2021 -23 <sup>rd</sup> October 2021	
2	Quantum Mechanics & Applications	Time independent schrodinger equations	10	Mr N.I. Ali Ahmed	25 <sup>th</sup> October 2021 - 6 <sup>th</sup> November 2021	
3	Quantum Mechanics & Applications	Bound states	12	Mr N.I. Ali Ahmed	8 <sup>th</sup> November 2021 - 29 <sup>th</sup> November 2021	
4	Quantum Mechanics & Applications	Hydrogen-like atoms	10	Mr N.I. Ali Ahmed	30 <sup>th</sup> November 2021 - 10 <sup>th</sup> December 2021	
5	Quantum Mechanics & Applications	Atoms in electric and magnetic field	12	Mr N.I. Ali Ahmed	11 <sup>th</sup> December 2021 -24 <sup>th</sup> December 2021	
6	Quantum Mechanics & Applications	Many electron atoms	10	Mr N.I. Ali Ahmed	27 <sup>th</sup> December 2021 -13 <sup>th</sup> January 2022	
7	Quantum Mechanics & Applications	Practical	20	Mr Hemanga J. Sarmah	1 <sup>st</sup> October 2021 -14 <sup>th</sup> February 2022	
8	Solid state Physics	Crystal structure	10	Mr Babul Talukdar	1 <sup>st</sup> Oct 2021 -23 <sup>rd</sup> October 2021	
9	Solid state Physics	Elementary lattics dynamics	10	Mr Babul Talukdar	25 <sup>th</sup> October 2021 - 6 <sup>th</sup> November 2021	
10	Solid state	Magnetic properties of	08	Mr Babul	8 <sup>th</sup> November	

	Physics	matter		Talukdar	2021 - 24 <sup>th</sup> November 2021	
11	Solid state Physics	Di-electric properties of matter	08	Mr Babul Talukdar	25 <sup>th</sup> November 2022 - 15 <sup>th</sup> December 2022	
12	Solid state Physics	Ferroelectric properties of materials	08	Mr Babul Talukdar	16 <sup>th</sup> December 2021 - 31 <sup>st</sup> December 2021	
13	Solid state Physics	Free electron theory of Metals	12	Mr Babul Talukdar	3 <sup>rd</sup> January 2022 - 17 <sup>th</sup> January 2022	
14	Solid state Physics	Superconductiv ity	06	Mr Babul Talukdar	18 <sup>th</sup> January 2022 - 14 <sup>th</sup> February 2022	
15	Solid state Physics	Practical	20	Mr Babul Talukdar	1 <sup>st</sup> October 2021 - 14 <sup>th</sup> February 2022	
16	Nuclear and particle physics	General properties of Nuclei	10	Mrs Kabita Sarmah	1 <sup>st</sup> Oct 2021 - 23 <sup>rd</sup> October 2021	
17	Nuclear and particle physics	Nuclear Model	12	Mrs Kabita Sarmah	25 <sup>th</sup> October 2021 - 6 <sup>th</sup> November 2021	
18	Nuclear and particle physics	Radioactive decay	10	Mrs Kabita Sarmah	8 <sup>th</sup> November 2021 - 29 <sup>th</sup> November 2021	
19	Nuclear and particle physics	Nuclear reactions	08	Mrs Kabita Sarmah	30 <sup>th</sup> November 2021 - 10 <sup>th</sup> December 2021	
20	Nuclear and particle physics	Interaction with nuclear radiation with matter	08	Mrs Kabita Sarmah	11 <sup>th</sup> December 2021 - 23 <sup>rd</sup> December	

					2021	
<b>21</b>	Nuclear and particle physics	Detection of nuclear radiations	08	Mrs Kabita Sarmah	24 <sup>th</sup> December 2021 - 4 <sup>th</sup> January 2022	
<b>22</b>	Nuclear and particle physics	Particle accelerator	05	Mrs Kabita Sarmah	5 <sup>th</sup> January 2022 - 17 <sup>th</sup> January 2022	
<b>23</b>	Nuclear and particle physics	Particle analysis	14	Mrs Kabita Sarmah	18 <sup>th</sup> January 2022 - 14 <sup>th</sup> February 2022	
<b>24</b>	Physics of device and instruments	Devices	14	Mr H.J. Sarmah	1 <sup>st</sup> Oct 2021 - 18 <sup>th</sup> November 2021	
<b>25</b>	Physics of device and instruments	Power supply and regulator	03	Mr H.J. Sarmah	20 <sup>th</sup> November 2021 - 30 <sup>th</sup> November 2021	
<b>26</b>	Physics of device and instruments	Active and passive filters	03	Mr H.J. Sarmah	1 <sup>st</sup> December 2021 - 10 <sup>th</sup> December 2021	
<b>27</b>	Physics of device and instruments	Multivibrators	03	Mr H.J. Sarmah	11 <sup>th</sup> December 2021 - 18 <sup>th</sup> December 2021	
<b>28</b>	Physics of device and instruments	Phase locked loop	05	Mr H.J. Sarmah	20 <sup>th</sup> December 2021 - 31 <sup>st</sup> December 2021	
<b>29</b>	Physics of device and instruments	Processing of devices	12	Mr H.J. Sarmah	3 <sup>rd</sup> January 2021 - 20 <sup>th</sup> January 2021	
<b>30</b>	Physics of device and instruments	Digital Data communication standard	05	Mr H.J. Sarmah	21 <sup>st</sup> January 2021 - 29 <sup>th</sup> January 2021	
<b>31</b>	Physics of device and instruments	Introduction to communication system	15	Mr H.J. Sarmah	31 <sup>st</sup> January 2021 - 14 <sup>th</sup> February	

					2022	
<b>32</b>	Physics of device and instrument	Practical	20	Mr H.J. Sarmah	1 <sup>st</sup> October 2021 - 14 <sup>th</sup> February 2022	

# Department of Physics

## Morigaon College

### Teaching Plan (even semester)

#### 1. Second semester

Serial Number	Paper	Topic	Total number of Lectures	Professor assigned	Proposed Time	Remark
1	Electricity and magnetism PHY-HC-2016	Electric field and electric potential	26	Mr N.I. Ali Ahmed	18 <sup>th</sup> April 2022 - 20 <sup>th</sup> May 2022	
2	Electricity and magnetism PHY-HC-2016	Dielectric properties of matter	08	Mr Hemanga J Sarmah	18 <sup>th</sup> April 2022 - 26 <sup>th</sup> April 2022	
3	Electricity and magnetism PHY-HC-2016	Magnetic field	09	Mr Hemanga J Sarmah	27 <sup>th</sup> April 2022 - 6 <sup>th</sup> May 2022	
4	Electricity and magnetism PHY-HC-2016	Magnetic properties of matter	04	Mr Hemanga J Sarmah	7 <sup>th</sup> May 2022 - 20 <sup>th</sup> 2022	
5	Electricity and magnetism PHY-HC-2016	Electromagnetic induction	06	Mr N.I. Ali Ahmed	21 <sup>st</sup> May 2022- 28 <sup>th</sup> May 2022	
6	Electricity and magnetism PHY-HC-2016	Electric circuits	04	Mr N.I. Ali Ahmed	30 <sup>th</sup> May 2022-3 <sup>rd</sup> June 2022	
7	Electricity and magnetism PHY-HC-2016	Network theorems	02	Mr Hemanga J Sarmah	21 <sup>st</sup> May 2022 - 23 <sup>rd</sup> May 2022	
8	Electricity and magnetism PHY-HC-2016	Ballistic galvanometer	03	Mr N.I. Ali Ahmed	4 <sup>th</sup> June 2022 - 8 <sup>th</sup> June 2022	

<b>9</b>	Electricity and magnetism PHY-HC-2016	Practical	20	Mr N.I. Ali Ahmed and Mr Hemanga J Sarmah	18 <sup>th</sup> April - 30 <sup>th</sup> June 2022	
<b>10</b>	Wave and optics PHY-HC-2026	Superposition of collinear harmonic oscillator	05	Mr Babul Talukdar	18 <sup>th</sup> April 2022 - 23 <sup>rd</sup> April 2022	
<b>11</b>	Wave and optics PHY-HC-2026	Superposition of two harmonic oscillations	02	Mr Babul Talukdar	25 <sup>th</sup> April 2022 - 26 <sup>th</sup> April 2022	
<b>12</b>	Wave and optics PHY-HC-2026	Wave motion	04	Mr Babul Talukdar	27 <sup>th</sup> April 2022 - 02 <sup>nd</sup> May 2022	
<b>13</b>	Wave and optics PHY-HC-2026	Velocity of wave	06	Mr Babul Talukdar	4 <sup>th</sup> May 2022 - 10 <sup>th</sup> May 2022	
<b>14</b>	Wave and optics PHY-HC-2026	Superposition of two harmonic waves	07	Mr Babul Talukdar	11 <sup>th</sup> May 2022 - 19 <sup>th</sup> May 2022	
<b>15</b>	Wave and optics PHY-HC-2026	Wave optics	03	Mrs Kobita Sarmah	18 <sup>th</sup> April 2022 - 22 <sup>nd</sup> April 2022	
<b>16</b>	Wave and optics PHY-HC-2026	interference	09	Mrs Kobita Sarmah	23 <sup>rd</sup> April 2022 - 2 <sup>nd</sup> May 2022	
<b>17</b>	Wave and optics PHY-HC-2026	Interferometer	04	Mrs Kobita Sarmah	4 <sup>th</sup> May 2022 - 9 <sup>th</sup> May 2022	
<b>18</b>	Wave and optics PHY-HC-2026	Diffraction	09	Mrs Kobita Sarmah	10 <sup>th</sup> May 2022 - 19 <sup>th</sup> May 2022	
<b>19</b>	Wave and optics PHY-HC-2026	Fraunhofer diffraction	08	Mrs Kobita Sarmah	20 <sup>th</sup> May 2022 - 28 <sup>th</sup> May 2022	
<b>20</b>	Wave and optics PHY-HC-2026	Holography	03	Mrs Kobita Sarmah	30 <sup>th</sup> May 2022 - 2 <sup>nd</sup> June 2022	
<b>21</b>	Wave and optics PHY-HC-2026	Practical	20	Mrs Kobita Sarmah	18 <sup>th</sup> April 2022 - 30 <sup>th</sup>	

					June 2022	
22	Electricity and magnetism PHY-HG-2016	Vector Analysis	12	Mr N.I. Ali Ahmed	18 <sup>th</sup> April 2022 - 26 <sup>th</sup> April 2022	
23	Electricity and magnetism PHY-HG-2016	Electrostatics	22	Mr Babul Talukdar	27 <sup>th</sup> April 2022 - 20 <sup>th</sup> May 2022	
24	Electricity and magnetism PHY-HG-2016	Magnetism	10	Mr Hemanga J Sarmah	18 <sup>th</sup> April 2022 - 26 <sup>th</sup> April 2022	
25	Electricity and magnetism PHY-HG-2016	Electromagnetic induction	06	Mrs Kobita Sarmah	18 <sup>th</sup> April 2022 - 28 <sup>th</sup> April 2022	
26	Electricity and magnetism PHY-HG-2016	Maxwell's equations and EM waved	10	Mrs Kobita Sarmah	2 <sup>nd</sup> May 2022 - 24 <sup>th</sup> May 2022	

## 2. Fourth Semester

Serial Number	Paper	Topic	Total number of Lectures	Professor assigned	Proposed time	Remark
1	Mathematical Physics III PHY-HC-4016	Complex analysis	10	Mr N.I. Ali Ahmed	18 <sup>th</sup> April 2022 - 22 <sup>nd</sup> April 2022	
2	Mathematical Physics III PHY-HC-4016	Complex Integration	10	Mr. Hemanga J. Sarmah	18 <sup>th</sup> April 2022 - 22 <sup>nd</sup> April 2022	
3	Mathematical Physics III PHY-HC-4016	Fourier Transformation	15	Mr. Hemanga J. Sarmah	24 <sup>th</sup> April 2022 - 20 <sup>th</sup> May 2022	
4	Mathematical Physics III PHY-HC-4016	Laplace transformation	15	Mr. Hemanga J. Sarmah	21 <sup>st</sup> May 2022 - 7 <sup>th</sup> June 2022	
5	Mathematical Physics III PHY-HC-4016	Tensor Algebra	10	Mr. Hemanga J. Sarmah	8 <sup>th</sup> June 2022 - 30 <sup>th</sup> June 2022	
6	Mathematical Physics III PHY-HC-4016	Laboratory	20	Mr. Hemanga J. Sarmah	18 <sup>th</sup> April 2022 - 30 <sup>th</sup> June 2022	
7	Elements of modern Physics	Quantum theory and Blackbody radiation	14	Mrs Kabita Sarmah	18 <sup>th</sup> April 2022 - 26 <sup>th</sup> April 2022	
8	Elements of modern Physics	Uncertainty and wave particle duality	05	Mrs Kabita Sarmah	27 <sup>th</sup> April 2022 - 5 <sup>th</sup> May 2022	
9	Elements of modern Physics	Schrodinger equation	10	Mr Babul Talukdar	6 <sup>th</sup> May 2022 - 18 <sup>th</sup> May 2022	
10	Elements of modern Physics	One dimensional box and step barrier	10	Mr Babul Talukdar	19 <sup>th</sup> May 2022 - 8 <sup>th</sup> June 2022	
11	Elements of modern Physics	Structure of atomic nucleus	06	Mr N.I. Ali Ahmed	18 <sup>th</sup> April 2022 - 26 <sup>th</sup>	

					April 2022	
12	Elements of modern Physics	Radioactivity	08	Mr N.I. Ali Ahmed	27 <sup>th</sup> April 2022 - 26 <sup>th</sup> April 2022	
13	Elements of modern Physics	Fission and fusion	03	Mr N.I. Ali Ahmed	27 <sup>th</sup> April 2022 - 4 <sup>th</sup> May 2022	
14	Elements of modern Physics	Lasers	04	Mrs Kabita Sarmah	5 <sup>th</sup> May 2022	
15	Elements of modern Physics	Laboratory	20	Mr N.I. Ali Ahmed and Mr Babul Talukdar	18 <sup>th</sup> April 2022 - 30 <sup>th</sup> June 2022	
16	Analog system and applications PHY-HC-4036	Semiconductor devices	10	Mr Hemanga J Sarmah	18 <sup>th</sup> April 2022 - 26 <sup>th</sup> April 2022	
17	Analog system and applications PHY-HC-4036	Two terminal devices and their applications	06	Mr Hemanga J Sarmah	27 <sup>th</sup> April 2022 - 5 <sup>th</sup> May 2022	
18	Analog system and applications PHY-HC-4036	Bipolar junction transistors	06	Mr Hemanga J Sarmah	7 <sup>th</sup> May 2022 - 18 <sup>th</sup> May 2022	
19	Analog system and applications PHY-HC-4036	Amplifier	10	Mr Hemanga J Sarmah	19 <sup>th</sup> May 2022 - 19 <sup>th</sup> May 2022	
20	Analog system and applications PHY-HC-4036	Coupled amplifiers	04	Mr Hemanga J Sarmah	20 <sup>th</sup> May 2022 - 26 <sup>th</sup> May 2022	
21	Analog system and applications PHY-HC-4036	Feedback in amplifiers	04	Mr Hemanga J Sarmah	27 <sup>th</sup> May 2022 - 2 <sup>nd</sup> June 2022	
22	Analog system and applications PHY-HC-4036	Sinusoidal oscillators	04	Mr Hemanga J Sarmah	3 <sup>rd</sup> June 2022 - 8 <sup>th</sup> June 2022	
23	Analog system and applications	OPAMP	04	Mr Hemanga J Sarmah	9 <sup>th</sup> June 2022 - 13 <sup>th</sup>	

	PHY-HC-4036				June 2022	
<b>24</b>	Analog system and applications PHY-HC-4036	Applications of OPAMP	03	Mr Hemanga J Sarmah	14 <sup>th</sup> June 2022 - 17 <sup>th</sup> June 2022	
<b>25</b>	Analog system and applications PHY-HC-4036	Laboratory	20	Mr Hemanga J Sarmah	18 <sup>th</sup> April 2022 - 30 <sup>th</sup> June 2022	
<b>26</b>	Wave & optics PHY-RC-4016	Superposition of two collinear Harmonic oscillations	04	Mr Babul Talukdar	18 <sup>th</sup> April 2022 - 28 <sup>th</sup> April 2022	
<b>27</b>	Wave & optics PHY-RC-4016	Superposition of two perpendicular Harmonic oscillations	02	Mr Babul Talukdar	29 <sup>th</sup> April 2022 - 2 <sup>nd</sup> May 2022	
<b>28</b>	Wave & optics PHY-RC-4016	Wave motion	07	Mr N.I. Ali Ahmed	18 <sup>th</sup> April 2022 - 26 <sup>th</sup> April 2022	
<b>29</b>	Wave & optics PHY-RC-4016	Fluids	06	Mrs Kabita Sarmah	27 <sup>th</sup> April 2022 - 6 <sup>th</sup> May 2022	
<b>30</b>	Wave & optics PHY-RC-4016	Sound	06	Mr Hemanga J Sarmah	7 <sup>th</sup> May 2022 - 18 <sup>th</sup> May 2022	
<b>31</b>	Wave & optics PHY-RC-4016	Practical	20	Mr Hemanga J Sarmah and Mrs Kabita Sarmah	18 <sup>th</sup> April 2022 - 30 <sup>th</sup> June 2022	

### 3. Sixth Semester

Serial Number	Paper	Topic	Total number of Lectures	Professor assigned	Proposed time	Remark
1	Electromagnetic wave PHY-HC-6016	Maxwells equations	12	Mrs Kobita Sarmah	18 <sup>th</sup> April 2022 - 26 <sup>th</sup> April 2022	
2	Electromagnetic wave PHY-HC-6016	EM wave propagation in unbound media	10	Mrs Kobita Sarmah	27 <sup>th</sup> April 2022 - 7 <sup>th</sup> May 2022	
3	Electromagnetic wave PHY-HC-6016	EM wave in bound media	10	Mrs Kobita Sarmah	9 <sup>th</sup> May 2022 - 19 <sup>th</sup> May 2022	
4	Electromagnetic wave PHY-HC-6016	Polarization of EM wave	12	Mrs Kobita Sarmah	20 <sup>th</sup> May 2022 - 8 <sup>th</sup> June 2022	
5	Electromagnetic wave PHY-HC-6016	Rotatory polarization	08	Mrs Kobita Sarmah	9 <sup>th</sup> June 2022 - 15 <sup>th</sup> June 2022	
6	Electromagnetic wave PHY-HC-6016	Optical fibre	03	Mrs Kobita Sarmah	16 <sup>th</sup> June 2022 - 30 <sup>th</sup> June 2022	
7	Electromagnetic wave PHY-HC-6016	Laboratory	20	Mrs Kobita Sarmah	18 <sup>th</sup> April 2022 - 30 <sup>th</sup> June 2022	
8	Statistical Mechanics PHY-HC-6026	Classical statistics	18	Mr Babul Talukdar	18 <sup>th</sup> April 2022 - 7 <sup>th</sup> May 2022	
9	Statistical Mechanics PHY-HC-6026	Classical theory of Radiations	09	Mr Babul Talukdar	9 <sup>th</sup> May 2022 - 19 <sup>th</sup> May 2022	
10	Statistical Mechanics PHY-HC-6026	Classical theory of Radiation	09	Mr Babul Talukdar	20 <sup>th</sup> May 2022 - 31 <sup>st</sup> May 2022	

<b>11</b>	Statistical Mechanics PHY-HC-6026	Quantum theory of radiation	09	Mr Babul Talukdar	1 <sup>st</sup> June 2022 - 11 <sup>th</sup> June 2022	
<b>12</b>	Statistical Mechanics PHY-HC-6026	Bose-Einstein Statistics	13	Mr Babul Talukdar	13 <sup>th</sup> June 2022 - 20 <sup>th</sup> June	
<b>13</b>	Statistical Mechanics PHY-HC-6026	Fermi-Dirac statistics	15	Mr Babul Talukdar	21 <sup>st</sup> June 2022 - 30 <sup>th</sup> June 2022	
<b>14</b>	Astronomy and astrophysics PHY-HE-6046	Stellar properties	15	Mr Hemanga J. Sarmah	18 <sup>th</sup> April 2022 - 30 <sup>th</sup> April 2022	
<b>15</b>	Astronomy and astrophysics PHY-HE-6046	The sun and the solar system	15	Mr Hemanga J. Sarmah	2 <sup>nd</sup> May 2022 - 16 <sup>th</sup> May 2022	
<b>16</b>	Astronomy and astrophysics PHY-HE-6046	Positional astronomy	10	Mr Hemanga J. Sarmah	17 <sup>th</sup> May 2022 - 27 <sup>th</sup> May 2022	
<b>17</b>	Astronomy and astrophysics PHY-HE-6046	Astronomical techniques	10	Mr Hemanga J. Sarmah	28 <sup>th</sup> May 2022 - 6 <sup>th</sup> June 2022	
<b>18</b>	Astronomy and astrophysics PHY-HE-6046	Galaxies	10	Mr Hemanga J. Sarmah	7 <sup>th</sup> June 2022 - 15 <sup>th</sup> June 2022	
<b>19</b>	Astronomy and astrophysics PHY-HE-6046	Large scale structure and cosmology	15	Mr Hemanga J. Sarmah	16 <sup>th</sup> June 2022 - 30 <sup>th</sup> June 2022	
<b>20</b>	Classical Dynamics PHY-HE-6056	Classical mechanics and point particles	22	Mr N.I. Ali Ahmed	18 <sup>th</sup> April 2022 - 30 <sup>th</sup> April 2022	
<b>21</b>	Classical Dynamics PHY-HE-6056	Small amplitude oscillations	10	Mr N.I. Ali Ahmed	2 <sup>nd</sup> May 2022 - 12 <sup>th</sup> May 2022	
<b>22</b>	Classical	Special theory of	33	Mr N.I. Ali	13 <sup>th</sup> May 2022 - 14 <sup>th</sup>	

	Dynamics PHY-HE-6056	relativity		Ahmed	June 2022	
<b>23</b>	Classical Dynamics PHY-HE-6056	Fluid dynamics	10	Mr N.I. Ali Ahmed	15 <sup>th</sup> June 2022 - 30 <sup>th</sup> June 2022	