

## AERO ENGG. DEPT

<b>BE 2<sup>nd</sup> Year First Semester</b>							
<b>S. No.</b>	<b>Course Code</b>	<b>Course Name</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Total</b>	<b>Credits</b>
1	ENN 202	Fluid Mechanics	4	0	0	4	4
2	CH201	Chemistry	4	0	0	4	4
3	CH 202	Chemistry Lab	0	0	3	3	2
4	AE 210 or AE 210H	Introduction to Aeronautics	4	0	0	4	4
5	AE 211 or AE211H	Elements of Aerodynamics	4	0	0	4	4
6	AE 212	Aircraft materials and processes	4	0	0	4	4
7	ENN 201	Solid Mechanics	4	0	0	4	4
		Total	24	0	3	27	26

<b>BE 2<sup>nd</sup> Year Second Semester</b>							
<b>S. No.</b>	<b>Course Code</b>	<b>Course Name</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Total</b>	<b>Credits</b>
1	MA 201 or MA 201H	Mathematics III	4	0	0	4	4
2	PY 201 or PY 201H	Physics II	4	0	0	4	4
3	PY 202	Physics Lab.	0	0	3	3	2
4	AE 213 or AE 213H	Aircraft Structures	4	0	0	4	4
5	AE 214	Aircraft Systems & Instrumentation	4	0	0	4	4
6	AE 215 or AE215H	Airplane Propulsion	4	0	0	4	4
7	AE 216 or	Airplane Performance	4	0	0	4	4



<b>BE 4<sup>th</sup> Year First Semester</b>							
<b>S. No.</b>	<b>Course Code</b>	<b>Course Name</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Total</b>	<b>Credits</b>
1		Open Elective	4	0	0	4	4
2	AE 411 or AE 411H	Computational Fluid Dynamics	4	0	0	4	4
3	AE 412 or AE 412H	Airplane Stability & Control	4	0	0	4	4
4		Elective II	4	0	0	4	4
5	AE 413	Experiments in Aeronautics Lab	0	0	3	3	2
6	AE 414	Airplane systems & Instruments Lab	0	0	3	3	2
7	AE 415	Capstone Project I	0	0	8	8	4
		<b>Total</b>	<b>16</b>	<b>0</b>	<b>14</b>	<b>30</b>	<b>24</b>

<b>BE 4<sup>th</sup> Year Second Semester</b>							
<b>S. No.</b>	<b>Course Code</b>	<b>Course Name</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Total</b>	<b>Credits</b>
1		Humanities III (Elective)	4	0	0	4	4
2		Elective III	4	0	0	4	4
3	AE 419	Airplane Design	4	0	0	4	4
4	AE 420 or AE420H	Space Dynamics	4	0	0	4	4
5	AE 421	Computational Lab	0	0	3	3	2
6	AE 422	Experiments in Vibrations Lab	0	0	3	3	2
7	AE 423	Capstone Project II	0	0	8	8	4
8	*AE 424	Flight Training	0	0	0	0	0
		<b>Total</b>	<b>16</b>	<b>0</b>	<b>14</b>	<b>30</b>	<b>24</b>

\*S/X grade will be awarded

<b>Humanities II (Electives)</b>		
1	HU 301 or HU301H	Management Concepts & Practices
2	HU 302 or HU302H	Entrepreneurship

### **Humanities III (Electives)**

- |   |        |   |
|---|--------|---|
| 1 | HU 404 | Corporate Finance                               |
| 2 | HU 402 | Business Environment and Industrial Legislation |

### **Elective I**

- |   |        |                                   |
|---|--------|-----------------------------------|
| 1 | AE 317 | Wind Tunnel Techniques            |
| 2 | AE 318 | Theory of Elasticity              |
| 3 | AE 319 | Kinematics & Dynamics of Machines |

### **Elective II**

- |   |        |                        |
|---|--------|------------------------|
| 1 | AE 416 | Avionics               |
| 2 | AE 417 | Helicopter Dynamics    |
| 3 | AE 418 | Wind Energy Conversion |

### **Elective III**

- |   |        |   |
|---|--------|---|
| 1 | AE 425 | Air transportation & aircraft maintenance |
| 2 | AE 426 | Viscous Flow Theory                       |