

## Value Added Training Programme: Planning

The Value Added Training Programme is a non-credit courses aim to provide additional learner centric graded skill oriented technical training, with the primary objective of improving the employability skills of engineering students. The main objective is to bridge the skill gaps and make students industry ready. To prepare the students according to needs of industry and to enhance the placement opportunities, the management is striving hard to mould the better career of every student and introduce mandatory value added training program throughout the graduation period. All programs prepare a master training schedule to supplement the curriculum in order to make students better prepared to meet industry demands as well as develop their own interests and aptitudes. These courses are conducted by professionals and industry experts preferably during semester break with a duration of 30 -50 hours.

### Department of Basic Engineering Sciences

Semester	Domain knowledge enhancement Module	Duration	Remarks
1 <sup>st</sup>	Induction Program	40 Hrs	Internal & External Agencies
2 <sup>nd</sup>	<p><b>Behavioral Skills</b></p> <p>1. Introduction to soft skills and employability skill. Basic Knowledge of Global Economy and Industrial Finance.</p> <p>2. Reading &amp; writing skill, Basic of verbal &amp; written communication. Basic Knowledge of technical communication (level1).</p> <p>3. Forum creation and Knowledge sharing for group education. Social communication, Social impact of technical education.</p> <p><b>Technical Skills–IT</b></p> <p>1. Problem based Programming ( Programming with C-Language which includes Data Structure and algorithm based programming and logic design)</p>	40 Hrs	Internal & External Agencies

### Department of Computer Science & Engineering

Semester	Domain knowledge enhancement Module	Duration	Remarks
3 <sup>rd</sup>	PHP and MySQL	30 Hrs	External Agencies
4 <sup>th</sup>	Professional C programming with Hardware Interactions and Graphics Programming	30 Hrs	External Agencies
5 <sup>th</sup>	Cyber Security and Ethical Hacking / Python Programming	30 Hrs	External Agencies
6 <sup>th</sup>	Mobile Application Development using Android Studio	30 Hrs	External Agencies
7 <sup>th</sup>	Pre-placement Training: [Aptitude, Online Tests and Technical Training (C&DS), Training HR interview ]	50 Hrs	External Agencies

	Industrial/Summer Training: Advance Java and J2EE and/or Big Data and Hadoop	60 Hrs	
8 <sup>th</sup>	Machine learning approach using Python	30 Hrs	External Agencies

### Department of Information Technology

Semester	Domain knowledge enhancement Module	Duration	Remarks
3 <sup>rd</sup>	a) Aptitude, Logical reasoning (level 2) b) Python Programming	12 Hours 28 Hours	External Agencies
4 <sup>th</sup>	a) English/Vocabulary & Soft skills/Communicative skill development(including techniques for writing business emails) - Self Introduction& Extempore(Techniques) – Group Discussion – Mock Interview session(Technical & HR) – b) ANDROID Application Development	12 hours  28 Hours	External Agencies
5 <sup>th</sup>	a) Aptitude Training Cracking Techniques(Quantitative, Logical Reasoning, Verbal Ability) – Evaluation/Assessment of student profile with suggestions on the scope of improvement b) Advanced Java Programming	12 Hours  28 hours	External Agencies
6 <sup>th</sup>	a) Pre-placement training b) Industrial Training (According to the student's choice – preferably Machine learning/ AI/Big Data Hadoop etc.)	60 hours 50 - 60 Hours	External Agencies
7 <sup>th</sup>	a) Student's Need Based Traing like Aptitude Training Cracking Techniques(Quantitative, Logical Reasoning); Data Science	40 Hours	External Agencies
8 <sup>th</sup>	Student's Need Based Traing like Aptitude Training Cracking Techniques(Quantitative, Logical Reasoning); Data Science	40 Hours	External Agencies

### Department of Electronics & Communication Engineering

Semester	Domain knowledge enhancement Module	Duration	Remarks
Sem3	Electronic Circuit Design-I (Basic)	30 Hours	External Agencies
Sem4	a) Electronic Circuit Design-II (Advance) b) Basic Programming Languages (C/C++/PYTHON /Data Structure)	20 Hours 20 Hours	External Agencies
Sem5	a) Advance Programming Languages b) Modern Communication Technologies (IOT Workshop/ Android app development/ Microcontroller/ Fiber Optics /Remote Sensing )	20 Hours 20 Hours	External Agencies

Sem6	a) Quantitative Aptitude b) Advance Information Technologies (Cloud Computing/ Big Data Analysis etc)	20 Hours 20 Hours	External Agencies
Sem7	a) Industrial Training (Telecommunication Technology) b) Pre-placement Training	40 Hours 40 Hours	External Agencies
Sem8	c) Advanced Embedded System Design /VLSI Design a) Unplaced Student's Need Based Training	20 Hours 30 Hours	External Agencies

### Department of Electrical Engineering

Semester	Domain knowledge enhancement Module	Duration	Remarks
Sem3	Enhancing Engineering Mathematical Knowledge AutoCAD for Electrical Circuit Design	10 Hours 30 Hours	External Agencies
Sem4	Training on Technical Skills - IT & Technical Skill – Core PLC and Automation (Related to Electrical Industry)	15 Hours 25 Hours	External Agencies
Sem5	SCADA and AC Drives	40 Hours	External Agencies
Sem6	Python and IOT		External Agencies
Sem7	Industrial Training: IOT based Automation (Electrical Industry) Pre-placement Training [includes: Aptitude, English/Vocabulary & Soft skills/Communicative skill development, Self Introduction & Extempore, Group, Mock Interview, Professional CV writing &, Online aptitude Test, Evaluation/Assessment of student profile]	50-60 Hours 50 Hours	External Agencies
Sem8	Need based training focussing on enhancement of technical knowledge and placement needs	40 Hours	External Agencies

### Department of Applied Electronics & Instrumentation Engineering

Semester	Domain knowledge enhancement Module	Duration	Remarks
3 <sup>rd</sup>	<b>Behavioral Skills</b> 1. Group Discussion and extempore, Team building (Level 2). 2. Psychometric ability, Memory stumbling and brain storming (level &2). 3 English aptitude, Logical reasoning and	40 Hrs	External

	Mathematical aptitude (level 1&2). <b>Technical Skills–IT</b> 1. Industry requirement on C Programming (level 2). 2. Coding practice		
4 <sup>th</sup>	<b>Behavioral Skills</b> 1. Group Discussion and extempore, Team building (Level 3). 2. Decision making in real case study (level 1). 3 English aptitude, Logical reasoning and Mathematical aptitude (level 3). <b>Technical Skills–IT</b> 1. Object Oriented Programming with Java (level 1). ( Foundation of Big Data Hadoop ) 2. Cyber Security	40 Hrs	External
5 <sup>th</sup>	<b>Behavioral Skills</b> 1. Introduction to HR interview, PI, Dress code, Presentation (level 1). 2. Mock interview. 3 English aptitude, Logical reasoning and Mathematical aptitude (level 4). <b>Technical Skills–IT</b> 1. Introduction & application of Python 2. AI & Machine Learning	40 Hrs	External
6 <sup>th</sup>	<b>Behavioral Skills</b> 1. Mock test. 2. Mock interview. 3. Introduction to HR interview, PI, Dress code, Presentation (level 2). 4. Verbal & written communication, technical communication, Social communication. <b>Technical Skills–IT</b> 1. Industry requirement on Data Structure 2. IOT ( Internet of Things)	40 Hrs	External
7 <sup>th</sup>	<b>Industrial Training and Pre Placement Training</b>	50 Hrs	Conducted by Training & placement Dept.
8 <sup>th</sup>	<b>Technical Skills–IT</b> 1. Microcontroller Based Embedded System Design- Raspberry Pi 2. Cloud Computing 3. BIGDATA HADOOP	40 Hrs	External

#### Department of Biomedical Engineering

Semester	Domain knowledge enhancement Module	Duration	Remarks
3 <sup>rd</sup>	Hands on Training on Familiarization of Electrical and Electronics Equipment with Soldering Technique	30 Hours	External Agencies

4 <sup>th</sup>	Familiarization with basic electronic components, circuits and medical devices	30 Hours	External Agencies
5 <sup>th</sup>	Operation, Maintenance & Servicing of medical devices	30 Hours	External Agencies
6 <sup>th</sup>	Pre-Placement Training	50 Hours	External Agencies
7 <sup>th</sup>	Artificial Intelligence & IOT	30 Hours	External Agencies
8 <sup>th</sup>	Operation & Circuit level analysis medical instruments & systems	40 Hours	External Agencies

### Department of Mechanical Engineering

Semester	Domain knowledge enhancement Module	Duration	Remarks
3 <sup>rd</sup>	AUTOCAD 2D & 3D	40 hrs	CADD CENTRE
4 <sup>th</sup>	SOLID WORKS	40 hrs	CADD CENTRE
5 <sup>th</sup>	ANSYS	40 hrs	CADD CENTRE
6 <sup>th</sup>	MATLAB	40 hrs	CADD CENTRE
7 <sup>th</sup>	CATIA	40 hrs	CADD CENTRE
8 <sup>th</sup>	Need based training focussing on enhancement of technical knowledge and placement needs	40 Hrs.	External Agency

### Department of Civil Engineering

Semester	Domain knowledge enhancement Module	Duration	Remarks
3 <sup>rd</sup>	Aptitude training cracking techniques: Quantitative, Logical, reasoning, verbal ability	Hrs.	External Agency
	Vocabulary & soft skills /communicative skill development	10 Hrs.	
4 <sup>th</sup>	“Total Station & GPS System of Surveying”	40 Hrs.	External Agency
5 <sup>th</sup>	AUTOCAD 2D & 3D along with Autodesk user Certification (ACU)	40 Hrs.	External Agency
6 <sup>th</sup>	“REVIT” along with Autodesk user Certification (ACU)/ Use of STAAD.PRO in analysis and design of RCC Buildings and steel structures	40 Hrs.	External Agency
7 <sup>th</sup>	Grooming for Job Interview/Mock Interview (Technical: Civil)	20 Hrs.	External Agency
	Aptitude training cracking techniques: Quantitative, Logical, reasoning, verbal ability Vocabulary & soft skills /communicative skill development Self-introduction and extempore Group discussion Mock interview (HR)	30 Hrs.	

	Professional CV writing and designing		
8 <sup>th</sup>	Need based training focussing on enhancement of technical knowledge and placement needs	40 Hrs.	External Agency

**Department of Management Studies**

<b>Semester</b>	<b>Domain knowledge enhancement Module</b>	<b>Duration</b>	<b>Remarks</b>
1 <sup>st</sup>	Soft Skill training over and above regular classes	1 class per week	Internal
2 <sup>nd</sup>	Soft Skill training over and above regular classes	1 class per week	Internal