



NETAJI SUBHASH ENGINEERING COLLEGE

Techno City, Garia, Kolkata – 700 152

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 st | Induction Program | 40 Hrs | Internal & External Agencies |
| 2 nd | Behavioral Skills 1. Introduction to soft skills and employability skill. Basic Knowledge of Global Economy and Industrial Finance. 2. Reading & writing skill, Basic of verbal & written communication. Basic Knowledge of technical communication (level1). 3. Forum creation and Knowledge sharing for group education. Social communication, Social impact of technical education. Technical Skills-IT 1. Problem based Programming (Programming with C-Language which includes Data Structure and algorithm based programming and logic design) | 40 Hrs | Internal & External Agencies |

Department of Computer Science & Engineering

| Semester | Domain knowledge enhancement Module | Duration | Remarks |
|-----------------|--|----------|-------------------|
| 3 rd | PHP and MySQL | 30 Hrs | External Agencies |
| 4 th | Professional C programming with Hardware Interactions and Graphics Programming | 30 Hrs | External Agencies |

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Principal

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|-----------------|--|------------------|-------------------|
| 5 th | Cyber Security and Ethical Hacking / Python Programming | 30 Hrs | External Agencies |
| 6 th | Mobile Application Development using Android Studio | 30 Hrs | External Agencies |
| 7 th | Pre-placement Training: [Aptitude, Online Tests and Technical Training (C&DS), Training HR interview] Industrial/Summer Training: Advance Java and J2EE and/or Big Data and Hadoop | 50 Hrs 60 Hrs | External Agencies |
| 8 th | Machine learning approach using Python | 30 Hrs | External Agencies |

Department of Information Technology

| Semester | Domain knowledge enhancement Module | Duration | Remarks |
|-----------------|---|---------------------------|-------------------|
| 3 rd | a) Aptitude, Logical reasoning (level 2) b) Python Programming | 12 Hours 28 Hours | External Agencies |
| 4 th | 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 th | 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 th | 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 th | a) Student's Need Based Traing like Aptitude Training Cracking Techniques(Quantitative, Logical Reasoning); Data Science | 40 Hours | External Agencies |
| 8 th | 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) | 20 Hours | External Agencies |

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| | b) Basic Programming Languages (C/C++/PYTHON /Data Structure) | 20 Hours | |
| Sem5 | a) Advance Programming Languages | 20 Hours | External Agencies |
| | b) Modern Communication Technologies (IOT Workshop/ Android app development/ Microcontroller/ Fiber Optics /Remote Sensing) | 20 Hours | |
| Sem6 | a) Quantitative Aptitude | 20 Hours | External Agencies |
| | b) Advance Information Technologies (Cloud Computing/ Big Data Analysis etc) | 20 Hours | |
| Sem7 | a) Industrial Training (Telecommunication Technology) | 40 Hours | External Agencies |
| | b) Pre-placement Training | 40 Hours | |
| Sem8 | c) Advanced Embedded System Design /VLSI Design | 20 Hours | External Agencies |
| | a) Unplaced Student's Need Based Training | 30 Hours | |

Department of Electrical Engineering

| Semester | Domain knowledge enhancement Module | Duration | Remarks |
|----------|---|-------------|-------------------|
| Sem3 | Enhancing Engineering Mathematical Knowledge | 10 Hours | External Agencies |
| | AutoCAD for Electrical Circuit Design | 30 Hours | |
| Sem4 | Training on Technical Skills - IT & Technical Skill – Core | 15 Hours | External Agencies |
| | PLC and Automation (Related to Electrical Industry) | 25 Hours | |
| Sem5 | SCADA and AC Drives | 40 Hours | External Agencies |
| Sem6 | Python and IOT | | External Agencies |
| Sem7 | Industrial Training: IOT based Automation (Electrical Industry) | 50-60 Hours | External Agencies |
| | 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 Hours | |
| 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 rd | Behavioral Skills 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 Mathematical aptitude (level 1&2). Technical Skills-IT 1. Industry requirement on C Programming (level 2). 2. Coding practice | 40 Hrs | External |
| 4 th | Behavioral Skills 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). Technical Skills-IT 1. Object Oriented Programming with Java (level 1). (Foundation of Big Data Hadoop) 2. Cyber Security | 40 Hrs | External |
| 5 th | Behavioral Skills 1. Introduction to HR interview, PI, Dress code, Presentation (level 1). 2. Mock interview. 3 English aptitude, Logical reasoning and Mathematical aptitude (level 4). Technical Skills-IT 1. Introduction & application of Python 2. AI & Machine Learning | 40 Hrs | External |
| 6 th | Behavioral Skills 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. Technical Skills-IT 1. Industry requirement on Data Structure 2. IOT (Internet of Things) | 40 Hrs | External |
| 7 th | Industrial Training and Pre Placement Training | 50 Hrs | Conducted by T & P Dept. |
| 8 th | Technical Skills-IT 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 rd | Hands on Training on Familiarization of Electrical and Electronics Equipment with Soldering Technique | 30 Hours | External Agencies |
| 4 th | Familiarization with basic electronic components, circuits and medical devices | 30 Hours | External Agencies |
| 5 th | Operation, Maintenance & Servicing of medical devices | 30 Hours | External Agencies |
| 6 th | Pre-Placement Training | 50 Hours | External Agencies |
| 7 th | Artificial Intelligence & IOT | 30 Hours | External Agencies |
| 8 th | Operation & Circuit level analysis medical instruments & systems | 40 Hours | External Agencies |

Department of Mechanical Engineering

| Semester | Domain knowledge enhancement Module | Duration | Remarks |
|-----------------|---|----------|-----------------|
| 3 rd | AUTOCAD 2D & 3D | 40 hrs | CADD CENTRE |
| 4 th | SOLID WORKS | 40 hrs | CADD CENTRE |
| 5 th | ANSYS | 40 hrs | CADD CENTRE |
| 6 th | MATLAB | 40 hrs | CADD CENTRE |
| 7 th | CATIA | 40 hrs | CADD CENTRE |
| 8 th | 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 rd | Aptitude training cracking techniques: Quantitative, Logical, reasoning, verbal ability | Hrs. | External Agency |
| | Vocabulary & soft skills /communicative skill development | 10 Hrs. | |
| 4 th | "Total Station & GPS System of Surveying" | 40 Hrs. | External Agency |
| 5 th | AUTOCAD 2D & 3D along with Autodesk user Certification (ACU) | 40 Hrs. | External Agency |
| 6 th | "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 th | Grooming for Job Interview/Mock Interview (Technical: Civil) | 20 Hrs. | External Agency |




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|-----------------|--|---------|-----------------|
| | Aptitude training cracking techniques: Quantitative, Logical, reasoning, verbal ability Vocabulary & soft skills /communicative skill development Self-introduction and extempore Group discussion Mock interview (HR) Professional CV writing and designing | 30 Hrs. | |
| 8 th | Need based training focussing on enhancement of technical knowledge and placement needs | 40 Hrs. | External Agency |

Department of Management Studies

| Semester | Domain knowledge enhancement Module | Duration | Remarks |
|-----------------|--|------------------|----------|
| 1 st | Soft Skill training over and above regular classes | 1 class per week | Internal |
| 2 nd | Soft Skill training over and above regular classes | 1 class per week | Internal |


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