**Approved Content Weightages for**

**AGRITECH 2023**

**Graduate Engineers Training Program**

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| **Sr. No** | **Core Areas Division** | **% Weight** |
| 1- | English  | 15% |
| 2- | IQ | 15% |
| 3- | Subject Specific | 70% |
|  | **Total** | 100% |

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| **Designation of the Post** | **Criteria and Subject Division** | **Subject% Weight** |
| **Graduate Engineers****Mechanical** | **Criteria :- As per the Advertisement** | **70%** |
| Power Plants & Thermodynamics, Engineering drawing and graphics | 02% |
| Machine design, Mechanics of Material | 10% |
| Mechanical Vibrations, Heat exchangers, Boilers, Furnace, etc. | 10% |
| Pumps, Turbines, Gear Box, Fans, Blower, etc, Welding types & Electrode classification | 12% |
| Bearings Types, Corrosion and its prevention | 03% |
| Pipes, Tubes and Fittings, Pressure Vessels and Tanks | 12% |
| Fluid Dynamics, Machine Shop & Machine Tools, Threads | 05% |
| Belt and Conveyors, Codes and Specs (ASME, ASTM, AWS etc.) | 07% |
| IC Engines / Heat engine, Materials and Metallurgy | 04% |
| Manufacturing Process, Heat Transfer + General Physics | 05% |
| **Graduate Engineers****Electrical** | **Criteria :- As per the Advertisement** | **70%** |
| Power System Protection | 13% |
| Power System Analysis | 03% |
| Power Electronics | 05% |
| High Voltage Engineering | 05% |
| Power Generation  | 15% |
| Power Transmission and Distribution | 9% |
| AC and DC Machines | 13% |
| Circuit Theory | 07% |
| **Graduate Engineers****Electronics** | **Criteria :- As per the Advertisement** | **70%** |
| Analogue Electronics | 07% |
| Digital Logic Design | 07% |
| Power/Industrial Electronics | 07% |
| Telecommunication | 07% |
| Programmable Logic Controllers (PLCs) | 07% |
| Electronic Measurements & Instrumentation | 07% |
| Circuit Theory & Networks | 07% |
| Electronic Devices | 07% |
| Control System Engineering | 07% |
| [Microprocessor and Computer Architecture](http://www.nirmauni.ac.in/ITNU/EC/electronics-and-communication-engineering/1138/microprocessor-and-computer-architecture/SubjectDetail) | 07% |
| **Graduate Engineers****Chemical** | **Criteria :- As per the Advertisement** | **70%** |
| Chemical Process Principles | 11% |
| Chemical Engineering Thermodynamics | 11% |
| Chemical Reaction Engineering | 11% |
| Heat & Mass Transfer  | 13% |
| Fluid Mechanics | 18% |
| Instrument and Process Control | 06% |

**Proposed Content &Weightages for**

**AGRITECH**

**Trade Apprenticeship**

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| **Sr. No** | **Core Areas Division** | **% Weight** |
| 1- | IQ | 20% |
| 2- | Subject Specific | 80% |
|  | **Total** | 100% |

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| **TradeApprenticeship****Chemical, Mechanical,**  | **Criteria :- As per the Advertisement** | **80%** |
| Same topics as applicable for engineers with difficulty index easier than engineers |  |
| **TradeApprenticeship** **Electrical/Instrument** | Analogue Electronics  | 15% |
| Digital Logic Design  | 15% |
| Power/Industrial Electronics  | 15% |
| Control Systems  | 15% |
| AC and DC Machines  | 10% |
| Telecommunication | 10% |

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| **TradeApprenticeship****Chemistry** | **Criteria :- As per the Advertisement** | **80%** |
| Inorganic/ Analytical Chemistry | 40% |
| Applied /Environmental Chemistry | 20% |
| Organic / Biochemistry | 20% |