**Content Weightages for OGDCL**

**Internship Program**

|  |  |  |
| --- | --- | --- |
| **Sr. No** | **Core Areas Division** | **% Weight** |
| 1- | Verbal Reasoning | 10% |
| 2- | Analytical Reasoning | 20% |
| 3- | General Knowledge | 10% |
| 4- | Subject related  | 60% |
|  |  **Total** | **100%** |

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No** | **Discipline** | **Criteria and Subject Division** | **Subject****% Weight** |

|  |  |  |  |
| --- | --- | --- | --- |
| **01** | **Engineering Degree:****Petroleum****Chemical****Electrical& Electronics****Mechanical & Mechatronics****Civil** | **Engineering degree in: Petroleum, Chemical Electrical, Electronics, Mechanical, Mechatronics, Civil** |  |
| **Engineering degree in: Petroleum** | **60%** |
| Petroleum Engineering | 10% |
| Fluid Mechanics | 10% |
| Reservoir Engineering | 10% |
| Drilling Engineering | 10% |
| Principles of Enhanced Oil Recovery  | 10% |
| Well Logging & Testing | 10% |
| **Engineering degree in: Chemical**  | **60%** |
| Chemical Process Principles | 10% |
| Chemical Engineering Thermodynamics | 10% |
| Heat Transfer | 10% |
| Mass Transfer | 10% |
| Chemical Reaction engineering | 05% |
| Chemical Process Design and Simultation | 10% |
| Fluid Mechanics | 05% |
| **Engineering degree in: Electrical and Electronics** | **60%** |
| Electrical Circuits & Network Analysis | 05% |
| Electrical Machines | 05% |
| Signals &Systems | 05% |
| Electromagnetic Fields | 05% |
| Electronic Devices & Circuits | 05% |
| Integrated Circuits | 05% |
| Power Electronics | 05% |
| Digital Logic Design | 05% |
| Microprocessor Programming & Interfacing | 05% |
| Digital Communication Systems | 05% |
| Digital Signal Processing | 05% |
| Linear Control Systems | 05% |
| **Engineering degree in: Mechanical and Mechatronics**  | **60%** |
| Engineering drawing and graphics | 06% |
| Thermodynamics | 06% |
| Manufacturing Processes | 06% |
| Industrial Automation | 06% |
| Machine Tools & Machining | 06% |
| Machine design & vibration | 06% |
| Engineering Statics | 06% |
| Power Plants | 06% |
| Fluid Mechanics | 06% |
| Engineering Material | 06% |
| **Engineering degree in: Civil** | **60%** |
| Engineering Drawing  | 06% |
| Engineering Mechanics  | 06% |
| Engineering Surveying  | 06% |
| Building construction & design  | 06% |
| Fluid Mechanics | 06% |
| Structural Analysis | 06% |
| Civil Work Quantity and Cost Estimations  | 06% |
| Concrete Technology  | 06% |
| Steel Structure & Reinforced Concrete Design | 06% |
| Soil Mechanics and Foundation Engineering  | 06% |
| **02** | **M.Sc/BS/BE:****Environmental Sciences****Computer/Software Telecom****Geological Engineering/ Geology****Geophysics** | **M.Sc / BS / BE in: Environmental Sciences, Computer / Software / Telecom, Geological Engineering, Geology / Geophysics** |  |
| **M.Sc. / BS / BE in: Environmental Sciences** | **60%** |
| Ecology and Applied Ecology | 10% |
| Environmental Pollution & Toxicology | 10% |
| Environmental Microbiology and Biotechnology | 10% |
| Natural Resource Management, Biodiversity and Conservation | 10% |
| Environmental Monitoring and Analytical Techniques | 10% |
| Climatology and Climate Changes | 10% |
| **M.Sc / BS / BE in: Computer / Software/ Telecom** | **60%** |
| Computer Architecture and Organization | 09% |
| Operating Systems | 09% |
| Software Engineering & Development | 09% |
| Microprocessor Systems and Interfacing | 09% |
| Analog Communication Systems | 08% |
| Digital Communications | 08% |
| Data Communication & Computer Network | 08% |
| **M.Sc / BS / BE in: Geological Engineering / Geology**  | **60%** |
| Structural Geology / Tectonics  | 06% |
| Mineralogy | 06% |
| Geological Mapping and Correlations | 06% |
| Palaeontology / Biostratigraphy | 06% |
| Stratigraphy of Pakistan | 06% |
| Sedimentology | 06% |
| Exploration Methods (Gravity, Magnetic, Resistivity, Seismic etc.) | 06% |
| Basic Principles of Sequence Stratigraphy | 06% |
| Petrophysical Logs (Principles) | 06% |
| Petrophysical Logs (Interpretation) | 06% |
| M.Sc / BS / BE in: Geophysics | **60%** |
| Applied Geophysics | 10% |
| Engineering Geology | 10% |
| Structure, Tectonics and Neotectonic | 10% |
| Gravity, Figure of Earth | 10% |
| Solar System | 10% |
| Earth's Magnetism | 10% |
| **03** | **MBA/BBA (Hon):****HR****Marketing/SCM** | **MBA/BBA (Hon) in (HR)** | **60%** |
| Basic Computer Knowledge (MS-Excel, MS Word, Power Point) | 15% |
| Human Recourse Management | 15% |
| Fundamentals of Management | 15% |
| Organizational Behavior | 15% |
| **MBA/BBA (Hon) in Marketing**  | **60%** |
| Basic Computer Knowledge (MS-Excel, MS Word, Power Point) | 10% |
| Fundamentals of Management | 05% |
| Marketing Management | 15% |
| Sales Management | 15% |
| Supply Chain Management | 15% |
| **MBA/BBA (Hon) SCM** | **60%** |
| Basic Computer Knowledge (MS-Excel, MS Word, Power Point) | 10% |
| Supply Chain Management | 20% |
| Fundamentals of Management | 10% |
| Business Communication and Report Writing | 20% |
| **04s** | **CMA/ACCA/M.Com /MBA (Finance)/BBA Hon. (Finance)** | **ICMA / ACCA / M.Com / MBA or BBA (Hon) in (Finance)** | **60%** |
| Basic Computer Knowledge(MS-Word, Excel, PowerPoint) | 10% |
| Financial Management | 10% |
| Financial Accounting | 10% |
| Cost Accounting | 10% |
| Commerce | 10% |
| Business Mathematics | 10% |