**DAE**

**LAND AND RESOURCE SURVEY AND MANAGEMENT**

**Minimum Qualification of Teacher/ Instructor**

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| **First Year** | | |
| **S#** | **Course Name** | **Min Qualification** |
| 1 | Islamiat & Pakistan Studies | BA in Islamic Studies with 2-Years relevant experience in teaching/ industry |
| 2 | English | BA in English with 2-Years relevant experience in teaching/ industry |
| 3 | Chinese Language-1 | BA & HSK (intermediate level) with 2-Years relevant experience in teaching/ industry |
| 4 | Applied Mathematics-I | B.Sc. in Mathematics with 2-Years relevant experience in teaching/ industry |
| 5 | Applied Physics | B.Sc. in Physics with 2-Years relevant experience in teaching/ industry |
| 6 | Applied Chemistry | B.Sc. in Chemistry with 2-Years relevant experience in teaching/ industry |
| 7 | Introduction to Natural Resources | MSc / BS Geology and MSc / BS Geography |
| 8 | Fundamentals of Surveying and Mapping | MSc / BS Geology and MSc / BS Geography |
| 9 | Digital mapping | MSc / BS Geology and MSc / BS Geography |
| 10 | General Geology | MSc / BS Geology and MSc / BS Geography |
| 11 | Geographic Information System | MSc / BS Geology and MSc / BS Geography |

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| **Second Year** | | |
| **S#** | **Course Name** | **Min Qualification** |
| 1 | Islamiat & Pak Studies | BA in Islamic Studies with 2-Years relevant experience in teaching/ industry |
| 2 | Applied Mathematics-II | B.Sc. in Mathematics with 2-Years relevant experience in teaching/ industry |
| 3 | Understanding China | BA & HSK (intermediate level) with 2-Years relevant experience in teaching/ industry |
| 4 | Chinese Language-2 | BA & HSK (intermediate level) with 2-Years relevant experience in teaching/ industry |
| 5 | Understanding China | BA & HSK (intermediate level) with 2-Years relevant experience in teaching/ industry |
| 6 | Tectonic Geology | MSc / BS Geology and MSc / BS Geography |
| 7 | Mineral and Rock Identification | MSc / BS Geology and MSc / BS Geography |
| 8 | Real Estate Registration Investigation | MSc / BS Geology and MSc / BS Geography |
| 9 | Digital Cartography | MSc / BS Geology and MSc / BS Geography |
| 10 | Remote Sensing Application of Land and Resources | MSc / BS Geology and MSc / BS Geography |
| 11 | Hydrology and Engineering Geology | MSc / BS Geology and MSc / BS Geography |

**Note 1,**

Many Technical subjects contains both topics related with Geology and Geography.

**Note2.**

It is important to mention here that the whole task was performed by the Teachers having Civil Engineering / Technology as their Academic Qualification. Whereas the said course "Land & Resource Survey & Management" has subjects related to Geology and Geography which are beyond the scope of Civil Trade.

It is therefore recommended that a comprehensive review may be done by the persons having Qualifications as 4 Years Degree MSc/BS Geology and MSc/BS Geography. Same is recommended for Tool Machinery Equipment List with the advice that the Tool Machinery Equipment must be finalized after review from above type of Geology and Geography Degree-holders.