**DEPARTMENT OF ELECTRICAL ENGINEERING**

**Indian institute of Science**

**Bangalore 560012**

**Research Interviews - 2022**

**Choice of likely Research Area**

1. **Name of the candidate:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
2. **Application No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
3. **Choice of research areas: The two major streams of research in the department and the sub-areas within them are given below. Please select only one of the two streams for which you would like to be interviewed. In the selected stream, indicate your order of preference for pursuing research in any one of the sub-areas, in case you are offered admission (1=top preference, 2=next preference and so on)**
4. **Preference (applicable only for only bachelor degree holder entering through GATE): MTech(Research) \_\_\_\_\_\_\_\_\_\_\_\_\_\_ PhD\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**I. Stream 1: Power Systems, Power Electronics and High voltage Engineering**

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| --- | --- | --- |
|  | **Sub-areas** | **Order of preference** |
| **a** | **High Voltage Engineering, Electromagnetic fields & Lightning** |  |
| **b** | **Power System Stability, Protection, Operation, Smart Grids, Renewables** |  |
| **c** | **Power Electronics, Industrial Drives, Electrical Machines** |  |

**(OR)**

**II. Stream II: Systems and Signal Processing**

|  |  |  |
| --- | --- | --- |
|  | **Sub-areas** | **Order of preference** |
| **a** | **Machine Learning and Pattern Recognition** |  |
| **b** | **Image/Video Processing, Medical Imaging, Computational Imaging** |  |
| **c** | **Signal Processing, Biomedical Signal Processing** |  |
| **d** | **Computer Vision** |  |
| **e** | **Speech and Audio Processing** |  |
| **f** | **Control Systems, Multi-agent Systems and Control, Multi-robot Systems** |  |

**Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**