1. **Roadmap of MS (Artificial Intelligence) Program**
   1. **Core Courses (12 Credit Hours)**

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| **#** | **Course Code** | **Title** | **Credit Hours** |
| **1** | AI5301 | Advanced Artificial Intelligence | **3** |
| **2** | AI5033 | Advanced Machine Learning | **3** |
| **3** | AI5252 | Knowledge Representation and Reasoning | **3** |
| **4** | AI5104 | Research Methods | **3** |

* 1. **Elective Courses (12 Credit Hours + Thesis)**

|  |  |  |  |
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| **#** | **Course Code** | **Title** | **Credit Hours** |
| **1** | AI5306 | Philosophy of Artificial Intelligence | **3** |
| **2** | AI5118 | Deep Learning | **3** |
| **3** | AI5302 | Multi-Agent Systems | **3** |
| **4** | AI6287 | Advanced Topics in Cognitive Science | **3** |
| **5** | AI5309 | Optimization Techniques | **3** |
| **6** | AI6288 | Advanced Topics in Artificial Intelligence | **3** |
| **7** | AI5165 | Advance Natural Language Processing | **3** |
| **8** | AI5266 | Experimentation in Psychology and Linguistics | **3** |
| **9** | AI5253 | Commonsense Reasoning and Argumentation | **3** |
| **10** | AI5307 | Game Theory | **3** |
| **11** | AI5162 | Data Mining | **3** |
| **12** | AI6085 | Mobile Robotics | **3** |
| **13** | AI5305 | Digital Forensics | **3** |
| **14** | AI5304 | Intelligent Robots | **3** |
| **15** | AI5311 | Cybernetics | **3** |