**Data in Tabular form:**

| **Program Name** | **Degree Level** | **Department** | **Program Description** | **Admission Requirements** | **Program Duration** | **Courses Offered** | **Program Website** | **Career Outcomes** | **Interests Matching** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Chemical & Biochemical Engineering | Master's | Chemical & Biochemical Engineering | This program focuses on the study of chemical and biochemical processes, with applications in various industries such as pharmaceuticals, biotechnology, and energy. | Bachelor's degree in engineering or related field; GRE scores; minimum GPA of 3.0; letters of recommendation; statement of purpose; IELTS (7.0) or TOEFL (80) | 2-3 years | Chemical Engineering Principles, Biomolecular Engineering, Reaction Engineering | Program Website | Process Engineer, Research Scientist, Biomedical Engineer | Chemistry, Biochemistry, Process Optimization |
| Computer Engineering | Master's | Computer Science & Electrical Engineering | This program combines aspects of computer science and electrical engineering, focusing on the design and development of computer hardware and software systems. | Bachelor's degree in computer engineering, electrical engineering, or related field; GRE scores; minimum GPA of 3.2; letters of recommendation; statement of purpose; IELTS (7.0) or TOEFL (80) | 2-3 years | Computer Architecture, Embedded Systems Design, Digital Signal Processing | Program Website | Software Engineer, Hardware Engineer, Systems Architect | Computer Architecture, Embedded Systems, VLSI Design |
| Computer Science | Master's | Computer Science | This program provides advanced study in computer science, covering areas such as algorithms, artificial intelligence, and machine learning. | Bachelor's degree in computer science or related field; GRE scores; minimum GPA of 3.5; letters of recommendation; statement of purpose; IELTS (7.5) or TOEFL (100) | 2-3 years | Advanced Algorithms, Machine Learning, Natural Language Processing | Program Website | Software Developer, Data Scientist, AI Specialist | Algorithms, Machine Learning, Artificial Intelligence |
| Cybersecurity | Master's | Information Systems | This program focuses on cybersecurity principles, methods, and technologies to protect digital assets and systems from cyber threats. | Bachelor's degree in computer science, information systems, or related field; GRE scores (optional); minimum GPA of 3.0; letters of recommendation; statement of purpose; IELTS (7.0) or TOEFL (80) | 1-2 years | Network Security, Cryptography, Ethical Hacking | Program Website | Cybersecurity Analyst, Security Consultant, Incident Responder | Network Security, Cryptography, Ethical Hacking |
| Data Science | Master's | Information Systems | This program covers the principles and techniques of data science, including data mining, machine learning, and statistical analysis. | Bachelor's degree in computer science, statistics, or related field; GRE scores; minimum GPA of 3.2; letters of recommendation; statement of purpose; IELTS (7.5) or TOEFL (90) | 1-2 years | Data Mining, Machine Learning, Statistical Analysis | Program Website | Data Scientist, Machine Learning Engineer, Business Analyst | Data Mining, Machine Learning, Statistics |
| Electrical Engineering | Master's | Electrical Engineering | This program focuses on electrical systems and technologies, including power systems, control systems, and electronics. | Bachelor's degree in electrical engineering or related field; GRE scores; minimum GPA of 3.2; letters of recommendation; statement of purpose; IELTS (7.0) or TOEFL (90) | 2-3 years | Power Systems, Control Systems, Electronics | Program Website | Electrical Engineer, Power Systems Analyst, Control Systems Engineer | Power Systems, Control Systems, Electronics |
| Engineering Management | Master's | Engineering Management | This program covers the principles of engineering management, including project management, leadership, and strategic planning. | Bachelor's degree in engineering or related field; GRE scores (optional); minimum GPA of 3.0; letters of recommendation; statement of purpose; IELTS (7.0) or TOEFL (80) | 1-2 years | Project Management, Strategic Planning, Operations Management | Program Website | Project Manager, Operations Director, Engineering Consultant | Project Management, Leadership, Strategic Planning |
| Environmental Engineering | Master's | Civil & Environmental Engineering | This program focuses on environmental issues and solutions, covering areas such as water resources, air quality, and pollution control. | Bachelor's degree in engineering or related field; GRE scores; minimum GPA of 3.5; letters of recommendation; statement of purpose; IELTS (7.5) or TOEFL (100) | 2-3 years | Water Resources Management, Air Pollution Control, Environmental Chemistry | Program Website | Environmental Engineer, Water Resources Specialist, Air Quality Analyst | Environmental Science, Pollution Control, Sustainability |
| Health Information Technology | Master's | Information Systems | This program focuses on the use of information technology in healthcare settings, covering topics such as electronic health records and health information systems. | Bachelor's degree in information systems, healthcare administration, or related field; GRE scores (optional); minimum GPA of 3.0; letters of recommendation; statement of purpose; IELTS (7.0) or TOEFL (90) | 1-2 years | Healthcare Data Management, Health Information Systems, Health Informatics | Program Website | Health IT Specialist, Clinical Informatics Analyst, Healthcare Data Analyst | Health Informatics, Electronic Health Records, Healthcare Systems |
| Human-Centered Computing | Master's | Information Systems | This program focuses on the design and evaluation of human-computer interaction systems, with an emphasis on user experience and usability. | Bachelor's degree in computer science, psychology, or related field; GRE scores; minimum GPA of 3.5; letters of recommendation; statement of purpose; IELTS (7.5) or TOEFL (100) | 2-3 years | User Interface Design, Interaction Design, Usability Testing | Program Website | UX Designer, Usability Engineer, Interaction Designer | Human-Computer Interaction, User Experience Design, Usability Testing |
| Information Systems | Master's | Information Systems | This program covers the design, development, and management of information systems in organizations, with a focus on database management and information security. | Bachelor's degree in information systems, computer science, or related field; GRE scores (optional); minimum GPA of 3.0; letters of recommendation; statement of purpose; IELTS (7.0) or TOEFL (80) | 1-2 years | Database Management, Information Security, | Program Website | Database Administrator, Information Security Analyst, Systems Analyst | Database Management, Information Security |
| Software Engineering | Master's | Information Systems | This program focuses on software development methodologies, software architecture, and software project management. | Bachelor's degree in computer science, software engineering, or related field; GRE scores (optional); minimum GPA of 3.0; letters of recommendation; statement of purpose; IELTS (7.5) or TOEFL (100) | 1-2 years | Software Design, Software Testing, Software Project Management | Program Website | Software Engineer, Software Developer, Project Manager | Software Development, Agile Methodologies, Project Management |

**Same data in JSON:**

```json

{

"programs": [

{

"programName": "Chemical & Biochemical Engineering",

"degreeLevel": "Master's",

"department": "Chemical & Biochemical Engineering",

"programDescription": "This program focuses on the study of chemical and biochemical processes, with applications in various industries such as pharmaceuticals, biotechnology, and energy.",

"admissionRequirements": {

"degreeRequired": "Bachelor's degree in engineering or related field",

"testScores": "GRE scores",

"minimumGPA": "3.0",

"additionalRequirements": [

"letters of recommendation",

"statement of purpose",

"IELTS (7.0) or TOEFL (80)"

]

},

"coursesOffered": [

"Chemical Engineering Principles",

"Biomolecular Engineering",

"Reaction Engineering"

],

"programDuration": "2-3 years",

"programWebsite": "Program Website",

"careerOutcomes": [

"Process Engineer",

"Research Scientist",

"Biomedical Engineer"

],

"interestsMatching": ["Chemistry", "Biochemistry", "Process Optimization"]

},

{

"programName": "Computer Engineering",

"degreeLevel": "Master's",

"department": "Computer Science & Electrical Engineering",

"programDescription": "This program combines aspects of computer science and electrical engineering, focusing on the design and development of computer hardware and software systems.",

"admissionRequirements": {

"degreeRequired": "Bachelor's degree in computer engineering, electrical engineering, or related field",

"testScores": "GRE scores",

"minimumGPA": "3.2",

"additionalRequirements": [

"letters of recommendation",

"statement of purpose",

"IELTS (7.0) or TOEFL (80)"

]

},

"coursesOffered": [

"Computer Architecture",

"Embedded Systems Design",

"Digital Signal Processing"

],

"programDuration": "2-3 years",

"programWebsite": "Program Website",

"careerOutcomes": [

"Software Engineer",

"Hardware Engineer",

"Systems Architect"

],

"interestsMatching": ["Computer Architecture", "Embedded Systems", "VLSI Design"]

},

{

"programName": "Computer Science",

"degreeLevel": "Master's",

"department": "Computer Science",

"programDescription": "This program provides advanced study in computer science, covering areas such as algorithms, artificial intelligence, and machine learning.",

"admissionRequirements": {

"degreeRequired": "Bachelor's degree in computer science or related field",

"testScores": "GRE scores",

"minimumGPA": "3.5",

"additionalRequirements": [

"letters of recommendation",

"statement of purpose",

"IELTS (7.5) or TOEFL (100)"

]

},

"coursesOffered": [

"Advanced Algorithms",

"Machine Learning",

"Natural Language Processing"

],

"programDuration": "2-3 years",

"programWebsite": "Program Website",

"careerOutcomes": [

"Software Developer",

"Data Scientist",

"AI Specialist"

],

"interestsMatching": ["Algorithms", "Machine Learning", "Artificial Intelligence"]

},

{

"programName": "Cybersecurity",

"degreeLevel": "Master's",

"department": "Information Systems",

"programDescription": "This program focuses on cybersecurity principles, methods, and technologies to protect digital assets and systems from cyber threats.",

"admissionRequirements": {

"degreeRequired": "Bachelor's degree in computer science, information systems, or related field",

"testScores": "GRE scores (optional)",

"minimumGPA": "3.0",

"additionalRequirements": [

"letters of recommendation",

"statement of purpose",

"IELTS (7.0) or TOEFL (80)"

]

},

"coursesOffered": [

"Network Security",

"Cryptography",

"Ethical Hacking"

],

"programDuration": "1-2 years",

"programWebsite": "Program Website",

"careerOutcomes": [

"Cybersecurity Analyst",

"Security Consultant",

"Incident Responder"

],

"interestsMatching": ["Network Security", "Cryptography", "Ethical Hacking"]

},

{

"programName": "Data Science",

"degreeLevel": "Master's",

"department": "Information Systems",

"programDescription": "This program covers the principles and techniques of data science, including data mining, machine learning, and statistical analysis.",

"admissionRequirements": {

"degreeRequired": "Bachelor's degree in computer science, statistics, or related field",

"testScores": "GRE scores",

"minimumGPA": "3.2",

"additionalRequirements": [

"letters of recommendation",

"statement of purpose",

"IELTS (7.5) or TOEFL (90)"

]

},

"coursesOffered": [

"Data Mining",

"Machine Learning",

"Statistical Analysis"

],

"programDuration": "1-2 years",

"programWebsite": "Program Website",

"careerOutcomes": [

"Data Scientist",

"Machine Learning Engineer",

"Business Analyst"

],

"interestsMatching": ["Data Mining", "Machine Learning", "Statistics"]

},

{

"programName": "Electrical Engineering",

"degreeLevel": "Master's",

"department": "Electrical Engineering",

"programDescription": "This program focuses on electrical systems and technologies, including power systems, control systems, and electronics.",

"admissionRequirements": {

"degreeRequired": "Bachelor's degree in electrical engineering or related field",

"testScores": "GRE scores",

"minimumGPA": "3.2",

"additionalRequirements": [

"letters of recommendation",

"statement of purpose",

"IELTS (7.0) or TOEFL (90)"

]

},

"coursesOffered": [

"Power Systems",

"Control Systems",

"Electronics"

],

"programDuration": "2-3 years",

"programWebsite": "Program Website",

"careerOutcomes": [

"Electrical Engineer",

"Power Systems Analyst",

"Control Systems Engineer"

],

"interestsMatching": ["Power Systems", "Control Systems", "Electronics"]

},

{

"programName": "Engineering Management",

"degreeLevel": "Master's",

"department": "Engineering Management",

"programDescription": "This program covers the principles of engineering management, including project management, leadership, and strategic planning.",

"admissionRequirements": {

"degreeRequired": "Bachelor's degree in engineering or related field",

"testScores": "GRE scores (optional)",

"minimumGPA": "3.0",

"additionalRequirements": [

"letters of recommendation",

"statement of purpose",

"IELTS (7.0) or TOEFL (80)"

]

},

"coursesOffered": [

"Project Management",

"Strategic Planning",

"Operations Management"

],

"programDuration": "1-2 years",

"programWebsite": "Program Website",

"careerOutcomes": [

"Project Manager",

"Operations Director",

"Engineering Consultant"

],

"interestsMatching": ["Project Management", "Leadership", "Strategic Planning"]

},

{

"programName": "Environmental Engineering",

"degreeLevel": "Master's",

"department": "Civil & Environmental Engineering",

"programDescription": "This program focuses on environmental issues and solutions, covering areas such as water resources, air quality, and pollution control.",

"admissionRequirements": {

"degreeRequired": "Bachelor's degree in engineering or related field",

"testScores": "GRE scores",

"minimumGPA": "3.5",

"additionalRequirements": [

"letters of recommendation",

"statement of purpose",

"IELTS (7.5) or TOEFL (100)"

]

},

"coursesOffered": [

"Water Resources Management",

"Air Pollution Control",

"Environmental Chemistry"

],

"programDuration": "2-3 years",

"programWebsite": "Program Website",

"careerOutcomes": [

"Environmental Engineer",

"Water Resources Specialist",

"Air Quality Analyst"

],

"interestsMatching": ["Environmental Science", "Pollution Control", "Sustainability"]

},

{

"programName": "Health Information Technology",

"degreeLevel": "Master's",

"department": "Information Systems",

"programDescription": "This program focuses on the use of information technology in healthcare settings, covering topics such as electronic health records and health information systems.",

"admissionRequirements": {

"degreeRequired": "Bachelor's degree in information systems, healthcare administration, or related field",

"testScores": "GRE scores (optional)",

"minimumGPA": "3.0",

"additionalRequirements": [

"letters of recommendation",

"statement of purpose",

"IELTS (7.0) or TOEFL (90)"

]

},

"coursesOffered": [

"Healthcare Data Management",

"Health Information Systems",

"Health Informatics"

],

"programDuration": "1-2 years",

"programWebsite": "Program Website",

"careerOutcomes": [

"Health IT Specialist",

"Clinical Informatics Analyst",

"Healthcare Data Analyst"

],

"interestsMatching": ["Health Informatics", "Electronic Health Records", "Healthcare Systems"]

},

{

"programName": "Human-Centered Computing",

"degreeLevel": "Master's",

"department": "Information Systems",

"programDescription": "This program focuses on the design and evaluation of human-computer interaction systems, with an emphasis on user experience and usability.",

"admissionRequirements": {

"degreeRequired": "Bachelor's degree in computer science, psychology, or related field",

"testScores": "GRE scores",

"minimumGPA": "3.5",

"additionalRequirements": [

"letters of recommendation",

"statement of purpose",

"IELTS (7.5) or TOEFL (100)"

]

},

"coursesOffered": [

"User Interface Design",

"Interaction Design",

"Usability Testing"

],

"programDuration": "2-3 years",

"programWebsite": "Program Website",

"careerOutcomes": [

"UX Designer",

"Usability Engineer",

"Interaction Designer"

],

"interestsMatching": ["Human-Computer Interaction", "User Experience Design", "Usability Testing"]

},

{

"programName": "Information Systems",

"degreeLevel": "Master's",

"department": "Information Systems",

"programDescription": "This program covers the design, development, and management of information systems in organizations, with a focus on database management and information security.",

"admissionRequirements": {

"degreeRequired": "Bachelor's degree in information systems, computer science, or related field",

"testScores": "GRE scores (optional)",

"minimumGPA": "3.0",

"additionalRequirements": [

"letters of recommendation",

"statement of purpose",

"IELTS (7.0) or TOEFL (80)"

]

},

"coursesOffered": [

"Database Management",

"Information Security"

],

"programDuration": "1-2 years",

"programWebsite": "Program Website",

"careerOutcomes": [

"Database Administrator",

"Information Security Analyst",

"Systems Analyst"

],

"interestsMatching": ["Database Management", "Information Security"]

},

{

"programName": "Software Engineering",

"degreeLevel": "Master's",

"department": "Information Systems",

"programDescription": "This program focuses on software development methodologies, software architecture, and software project management.",

"admissionRequirements": {

"degreeRequired": "Bachelor's degree in computer science, software engineering, or related field",

"testScores": "GRE scores (optional)",

"minimumGPA": "3.0",

"additionalRequirements": [

"letters of recommendation",

"statement of purpose",

"IELTS (7.5) or TOEFL (100)"

]

},

"coursesOffered": [

"Software Design",

"Software Testing",

"Software Project Management"

],

"programDuration": "1-2 years",

"programWebsite": "Program Website",

"careerOutcomes": [

"Software Engineer",

"Software Developer",

"Project Manager"

],

"interestsMatching": ["Software Development", "Agile Methodologies", "Project Management"]

}

]

}

```

This JSON format includes comprehensive details about each program, organized in a structured and easily accessible way.