Degree → Semester → Course Mapping (with Category/Subcategory Status)

Total courses: 214 | Categories existing: 39 | Subcategories existing: 39  
Note: 'No (Proposed)' indicates items to be added to your DB.

# Bachelor of Business Administration (BBA)

## Semester 1

* Business Communication → [Business & Management / Business Communication] (Category: Proposed; Subcategory: Proposed)
* Business Mathematics → [Business & Management / Quantitative Techniques] (Category: Proposed; Subcategory: Proposed)
* Financial Accounting I → [Business & Management / Accounting & Finance Basics] (Category: Proposed; Subcategory: Proposed)
* IT Tools for Business → [Business & Management / Quantitative Techniques] (Category: Proposed; Subcategory: Proposed)
* Microeconomics for Managers → [Business & Management / Economics for Business] (Category: Proposed; Subcategory: Proposed)
* Principles of Management → [Business & Management / Management Fundamentals] (Category: Proposed; Subcategory: Proposed)

## Semester 2

* Business Statistics → [Business & Management / Quantitative Techniques] (Category: Proposed; Subcategory: Proposed)
* Environmental Studies → [Business & Management / Business Law & Ethics] (Category: Proposed; Subcategory: Proposed)
* Financial Accounting II → [Business & Management / Accounting & Finance Basics] (Category: Proposed; Subcategory: Proposed)
* Macroeconomics → [Business & Management / Economics for Business] (Category: Proposed; Subcategory: Proposed)
* Marketing Management → [Business & Management / Marketing Management] (Category: Proposed; Subcategory: Proposed)
* Organizational Behavior → [Business & Management / Human Resource Management] (Category: Proposed; Subcategory: Proposed)

## Semester 3

* Business Law → [Business & Management / Business Law & Ethics] (Category: Proposed; Subcategory: Proposed)
* Financial Management → [Business & Management / Accounting & Finance Basics] (Category: Proposed; Subcategory: Proposed)
* Human Resource Management → [Business & Management / Human Resource Management] (Category: Proposed; Subcategory: Proposed)
* Operations Management → [Business & Management / Operations & Supply Chain] (Category: Proposed; Subcategory: Proposed)
* Research Methodology (Intro) → [Business & Management / Business Analytics Foundations] (Category: Proposed; Subcategory: Proposed)

## Semester 4

* Business Analytics (Foundations) → [Data Science / Introduction to Data Science] (Category: Existing; Subcategory: Existing)
* Consumer Behavior → [Business & Management / Marketing Management] (Category: Proposed; Subcategory: Proposed)
* Entrepreneurship & Innovation → [Business & Management / Entrepreneurship & Innovation] (Category: Proposed; Subcategory: Proposed)
* Logistics & Supply Chain Basics → [Business & Management / Operations & Supply Chain] (Category: Proposed; Subcategory: Proposed)
* Management Accounting → [Business & Management / Accounting & Finance Basics] (Category: Proposed; Subcategory: Proposed)

## Semester 5

* Elective I (Domain) → [Business & Management / Management Fundamentals] (Category: Proposed; Subcategory: Proposed)
* International Business → [Business & Management / International Business] (Category: Proposed; Subcategory: Proposed)
* Project Management → [Business & Management / Project & Program Management] (Category: Proposed; Subcategory: Proposed)
* Services Marketing → [Business & Management / Marketing Management] (Category: Proposed; Subcategory: Proposed)
* Strategic Management → [Business & Management / Strategic Management] (Category: Proposed; Subcategory: Proposed)

## Semester 6

* Business Ethics & Corporate Governance → [Business & Management / Business Law & Ethics] (Category: Proposed; Subcategory: Proposed)
* Capstone Project / Internship → [Professional Skills / Capstone/Internship] (Category: Proposed; Subcategory: Proposed)
* Digital Marketing Fundamentals → [Digital marketing / SEO and Analytics] (Category: Existing; Subcategory: Existing)
* Elective II (Domain) → [Business & Management / Management Fundamentals] (Category: Proposed; Subcategory: Proposed)
* Taxation Basics → [Business & Management / Taxation] (Category: Proposed; Subcategory: Proposed)

# Bachelor of Arts in Psychology (BA-PSY)

## Semester 1

* Academic Writing for Social Sciences → [Psychology / Social Psychology] (Category: Proposed; Subcategory: Proposed)
* Biological Psychology I → [Psychology / Biological Psychology] (Category: Proposed; Subcategory: Proposed)
* Introduction to Psychology → [Psychology / Introduction to Psychology] (Category: Proposed; Subcategory: Proposed)
* Psychology of Learning → [Psychology / Cognitive Psychology] (Category: Proposed; Subcategory: Proposed)
* Statistics for Behavioral Sciences I → [Data Science / Statistics for Data Science] (Category: Existing; Subcategory: Existing)

## Semester 2

* Cognitive Psychology I → [Psychology / Cognitive Psychology] (Category: Proposed; Subcategory: Proposed)
* Developmental Psychology I → [Psychology / Developmental Psychology] (Category: Proposed; Subcategory: Proposed)
* Research Methods I → [Psychology / Research Methods] (Category: Proposed; Subcategory: Proposed)
* Social Psychology I → [Psychology / Social Psychology] (Category: Proposed; Subcategory: Proposed)
* Statistics for Behavioral Sciences II → [Data Science / Statistics for Data Science] (Category: Existing; Subcategory: Existing)

## Semester 3

* Cognitive Psychology II → [Psychology / Cognitive Psychology] (Category: Proposed; Subcategory: Proposed)
* Developmental Psychology II → [Psychology / Developmental Psychology] (Category: Proposed; Subcategory: Proposed)
* Personality Theories → [Psychology / Cognitive Psychology] (Category: Proposed; Subcategory: Proposed)
* Psychopathology I → [Psychology / Psychopathology] (Category: Proposed; Subcategory: Proposed)
* Research Methods II (Design) → [Psychology / Research Methods] (Category: Proposed; Subcategory: Proposed)

## Semester 4

* Counseling Skills (Intro) → [Psychology / Counseling Skills] (Category: Proposed; Subcategory: Proposed)
* Health Psychology → [Psychology / Health & Positive Psychology] (Category: Proposed; Subcategory: Proposed)
* Positive Psychology → [Psychology / Health & Positive Psychology] (Category: Proposed; Subcategory: Proposed)
* Psychopathology II → [Psychology / Psychopathology] (Category: Proposed; Subcategory: Proposed)
* Testing & Assessment I → [Psychology / Testing & Assessment] (Category: Proposed; Subcategory: Proposed)

## Semester 5

* Community Psychology → [Psychology / Community Psychology] (Category: Proposed; Subcategory: Proposed)
* Elective Seminar → [Psychology / Ethics & Professional Practice] (Category: Proposed; Subcategory: Proposed)
* Industrial & Organizational Psychology → [Psychology / Industrial & Organizational Psychology] (Category: Proposed; Subcategory: Proposed)
* Neuropsychology (Intro) → [Psychology / Neuropsychology] (Category: Proposed; Subcategory: Proposed)
* Testing & Assessment II → [Psychology / Testing & Assessment] (Category: Proposed; Subcategory: Proposed)

## Semester 6

* Applied Research Project → [Psychology / Research Methods] (Category: Proposed; Subcategory: Proposed)
* Counseling Techniques (Advanced) → [Psychology / Counseling Skills] (Category: Proposed; Subcategory: Proposed)
* Ethics in Psychology → [Psychology / Ethics & Professional Practice] (Category: Proposed; Subcategory: Proposed)
* Field Work / Practicum → [Psychology / Field Work & Practicum] (Category: Proposed; Subcategory: Proposed)
* Forensic Psychology (Intro) → [Psychology / Forensic Psychology] (Category: Proposed; Subcategory: Proposed)

# Bachelor of Engineering in Mechanical (BE-MECH)

## Semester 1

* Basics of Programming → [Computer Science / Algorithms & Data Structures] (Category: Proposed; Subcategory: Proposed)
* Engineering Chemistry → [Mechanical Engineering / Basic Sciences (Physics/Chemistry)] (Category: Proposed; Subcategory: Proposed)
* Engineering Graphics → [Mechanical Engineering / Engineering Graphics & CAD] (Category: Proposed; Subcategory: Proposed)
* Engineering Mathematics I → [Mechanical Engineering / Engineering Mathematics] (Category: Proposed; Subcategory: Proposed)
* Engineering Physics → [Mechanical Engineering / Basic Sciences (Physics/Chemistry)] (Category: Proposed; Subcategory: Proposed)

## Semester 2

* Basic Electrical & Electronics → [Mechanical Engineering / Basic Sciences (Physics/Chemistry)] (Category: Proposed; Subcategory: Proposed)
* Engineering Mathematics II → [Mechanical Engineering / Engineering Mathematics] (Category: Proposed; Subcategory: Proposed)
* Materials Science → [Mechanical Engineering / Materials & Manufacturing] (Category: Proposed; Subcategory: Proposed)
* Mechanics of Solids → [Mechanical Engineering / Mechanics of Solids] (Category: Proposed; Subcategory: Proposed)
* Workshop Practice → [Mechanical Engineering / Materials & Manufacturing] (Category: Proposed; Subcategory: Proposed)

## Semester 3

* Fluid Mechanics → [Mechanical Engineering / Fluid Mechanics] (Category: Proposed; Subcategory: Proposed)
* Kinematics of Machines → [Mechanical Engineering / Machine Design] (Category: Proposed; Subcategory: Proposed)
* Manufacturing Processes I → [Mechanical Engineering / Materials & Manufacturing] (Category: Proposed; Subcategory: Proposed)
* Metrology & Measurements → [Mechanical Engineering / Metrology & Measurements] (Category: Proposed; Subcategory: Proposed)
* Thermodynamics → [Mechanical Engineering / Thermodynamics & Heat Transfer] (Category: Proposed; Subcategory: Proposed)

## Semester 4

* Heat Transfer → [Mechanical Engineering / Thermodynamics & Heat Transfer] (Category: Proposed; Subcategory: Proposed)
* Machine Drawing & CAD → [Mechanical Engineering / Engineering Graphics & CAD] (Category: Proposed; Subcategory: Proposed)
* Manufacturing Processes II → [Mechanical Engineering / Materials & Manufacturing] (Category: Proposed; Subcategory: Proposed)
* Numerical Methods → [Mechanical Engineering / Engineering Mathematics] (Category: Proposed; Subcategory: Proposed)
* Theory of Machines → [Mechanical Engineering / Machine Design] (Category: Proposed; Subcategory: Proposed)

## Semester 5

* Applied Thermodynamics (IC Engines) → [Mechanical Engineering / Thermodynamics & Heat Transfer] (Category: Proposed; Subcategory: Proposed)
* Design of Machine Elements I → [Mechanical Engineering / Machine Design] (Category: Proposed; Subcategory: Proposed)
* Finite Element Methods (Intro) → [Mechanical Engineering / Mechanics of Solids] (Category: Proposed; Subcategory: Proposed)
* Mechanical Vibrations → [Mechanical Engineering / Mechanics of Solids] (Category: Proposed; Subcategory: Proposed)
* Open Elective I → [Mechanical Engineering / Projects & Internship] (Category: Proposed; Subcategory: Proposed)

## Semester 6

* Design of Machine Elements II → [Mechanical Engineering / Machine Design] (Category: Proposed; Subcategory: Proposed)
* Mechatronics (Intro) → [Mechanical Engineering / Mechatronics & Robotics] (Category: Proposed; Subcategory: Proposed)
* Open Elective II → [Mechanical Engineering / Projects & Internship] (Category: Proposed; Subcategory: Proposed)
* Operations Research → [Mechanical Engineering / Operations Research] (Category: Proposed; Subcategory: Proposed)
* Refrigeration & Air Conditioning → [Mechanical Engineering / Thermodynamics & Heat Transfer] (Category: Proposed; Subcategory: Proposed)

## Semester 7

* Additive Manufacturing (Intro) → [Mechanical Engineering / Materials & Manufacturing] (Category: Proposed; Subcategory: Proposed)
* Automobile Engineering → [Mechanical Engineering / Materials & Manufacturing] (Category: Proposed; Subcategory: Proposed)
* Industrial Engineering → [Mechanical Engineering / Materials & Manufacturing] (Category: Proposed; Subcategory: Proposed)
* Power Plant Engineering → [Mechanical Engineering / Energy Systems] (Category: Proposed; Subcategory: Proposed)
* Program Elective I → [Mechanical Engineering / Projects & Internship] (Category: Proposed; Subcategory: Proposed)

## Semester 8

* Energy Systems & Sustainability → [Mechanical Engineering / Energy Systems] (Category: Proposed; Subcategory: Proposed)
* Major Project / Internship → [Mechanical Engineering / Projects & Internship] (Category: Proposed; Subcategory: Proposed)
* Program Elective II → [Mechanical Engineering / Projects & Internship] (Category: Proposed; Subcategory: Proposed)
* Project Management for Engineers → [Mechanical Engineering / Projects & Internship] (Category: Proposed; Subcategory: Proposed)
* Robotics (Intro) → [Mechanical Engineering / Mechatronics & Robotics] (Category: Proposed; Subcategory: Proposed)

# Diploma in Web Development (DIP-WEBDEV)

## Semester 1

* Git & GitHub Basics → [Web Development / Deployment & DevOps for Web] (Category: Existing; Subcategory: Existing)
* HTML & CSS Fundamentals → [Web Development / HTML & CSS Fundamentals] (Category: Existing; Subcategory: Existing)
* Modern JavaScript (ES6+) → [Web Development / JavaScript Basics] (Category: Existing; Subcategory: Existing)
* Responsive Web Design → [Web Development / Responsive Web Design] (Category: Existing; Subcategory: Existing)
* UI/UX Foundations → [Web Development / Frontend Frameworks (React, Angular, Vue)] (Category: Existing; Subcategory: Existing)

## Semester 2

* Backend with Node.js & Express → [Web Development / Backend Development (Node.js, Express)] (Category: Existing; Subcategory: Existing)
* Databases (MongoDB / SQL) → [Web Development / Databases for Web (SQL & NoSQL)] (Category: Existing; Subcategory: Existing)
* Frontend with React → [Web Development / Frontend Frameworks (React, Angular, Vue)] (Category: Existing; Subcategory: Existing)
* Full-Stack Capstone Project → [Web Development / Full-Stack Web Development] (Category: Existing; Subcategory: Existing)
* Next.js Fundamentals → [Web Development / Frontend Frameworks (React, Angular, Vue)] (Category: Existing; Subcategory: Existing)

# Certificate in Digital Marketing (CERT-DM)

## Semester 1

* Analytics & Reporting (Intro) → [Digital marketing / SEO and Analytics] (Category: Existing; Subcategory: Existing)
* Digital Marketing Overview → [Digital marketing / SEO and Analytics] (Category: Existing; Subcategory: Existing)
* Search Engine Marketing (SEM) → [Digital marketing / SEO and Analytics] (Category: Existing; Subcategory: Existing)
* Search Engine Optimization (SEO) → [Digital marketing / SEO and Analytics] (Category: Existing; Subcategory: Existing)
* Social Media Marketing → [Digital marketing / SEO and Analytics] (Category: Existing; Subcategory: Existing)

# Master of Computer Applications (MCA)

## Semester 1

* Advanced Data Structures & Algorithms → [Computer Science / Algorithms & Data Structures] (Category: Proposed; Subcategory: Proposed)
* Computer Organization & Architecture → [Computer Science / Computer Organization & Architecture] (Category: Proposed; Subcategory: Proposed)
* Database Systems → [Sql / SQL Basics] (Category: Existing; Subcategory: Existing)
* Discrete Mathematics for Computing → [Computer Science / Algorithms & Data Structures] (Category: Proposed; Subcategory: Proposed)
* Programming in Python/Java → [Python / Core Python] (Category: Existing; Subcategory: Existing)

## Semester 2

* Computer Networks → [Computer Science / Computer Networks] (Category: Proposed; Subcategory: Proposed)
* Data Warehousing & Mining (Intro) → [Data Science / Introduction to Data Science] (Category: Existing; Subcategory: Existing)
* Operating Systems → [Computer Science / Operating Systems] (Category: Proposed; Subcategory: Proposed)
* Software Engineering → [Computer Science / Software Engineering] (Category: Proposed; Subcategory: Proposed)
* Web Technologies → [Web Development / Frontend Frameworks (React, Angular, Vue)] (Category: Existing; Subcategory: Existing)

## Semester 3

* Cloud Computing (Intro) → [Computer Science / Cloud & DevOps] (Category: Proposed; Subcategory: Proposed)
* Distributed Systems → [Computer Science / Distributed Systems] (Category: Proposed; Subcategory: Proposed)
* Elective I → [Computer Science / Project/Dissertation] (Category: Proposed; Subcategory: Proposed)
* Information Security Fundamentals → [Computer Science / Information Security Fundamentals] (Category: Proposed; Subcategory: Proposed)
* Machine Learning (Intro) → [Data Science / Machine Learning Basics] (Category: Existing; Subcategory: Existing)

## Semester 4

* Big Data Processing (Intro) → [Data Science / Big Data & Spark] (Category: Existing; Subcategory: Existing)
* DevOps & CI/CD → [Computer Science / Cloud & DevOps] (Category: Proposed; Subcategory: Proposed)
* Elective II → [Computer Science / Project/Dissertation] (Category: Proposed; Subcategory: Proposed)
* Mobile Application Development → [Computer Science / Mobile Application Development] (Category: Proposed; Subcategory: Proposed)
* Project / Dissertation → [Computer Science / Project/Dissertation] (Category: Proposed; Subcategory: Proposed)

# Master of Business Administration (Finance) (MBA-FIN)

## Semester 1

* Financial Accounting & Reporting → [Business & Management / Accounting & Finance Basics] (Category: Proposed; Subcategory: Proposed)
* Managerial Economics → [Business & Management / Economics for Business] (Category: Proposed; Subcategory: Proposed)
* Marketing Management → [Business & Management / Marketing Management] (Category: Proposed; Subcategory: Proposed)
* Organizational Behavior → [Business & Management / Human Resource Management] (Category: Proposed; Subcategory: Proposed)
* Quantitative Techniques for Managers → [Business & Management / Quantitative Techniques] (Category: Proposed; Subcategory: Proposed)

## Semester 2

* Business Communication & Negotiation → [Business & Management / Business Communication] (Category: Proposed; Subcategory: Proposed)
* Business Research Methods → [Business & Management / Business Analytics Foundations] (Category: Proposed; Subcategory: Proposed)
* Corporate Finance → [Finance / Corporate Finance] (Category: Proposed; Subcategory: Proposed)
* Financial Markets & Institutions → [Finance / Financial Markets & Institutions] (Category: Proposed; Subcategory: Proposed)
* Operations & Supply Chain Management → [Business & Management / Operations & Supply Chain] (Category: Proposed; Subcategory: Proposed)

## Semester 3

* Banking & Financial Services → [Finance / Banking & Financial Services] (Category: Proposed; Subcategory: Proposed)
* Derivatives & Risk Management → [Finance / Derivatives & Risk Management] (Category: Proposed; Subcategory: Proposed)
* Elective I → [Finance / Corporate Finance] (Category: Proposed; Subcategory: Proposed)
* Investment Analysis & Portfolio Management → [Finance / Investment Analysis & Portfolio] (Category: Proposed; Subcategory: Proposed)
* Management Accounting & Control Systems → [Business & Management / Accounting & Finance Basics] (Category: Proposed; Subcategory: Proposed)

## Semester 4

* Capstone Project / Internship → [Professional Skills / Capstone/Internship] (Category: Proposed; Subcategory: Proposed)
* FinTech & Analytics → [Finance / FinTech & Analytics] (Category: Proposed; Subcategory: Proposed)
* Financial Modeling (Excel/Python) → [Finance / Financial Modeling (Excel/Python)] (Category: Proposed; Subcategory: Proposed)
* International Finance → [Finance / International Finance] (Category: Proposed; Subcategory: Proposed)
* Strategic Management → [Business & Management / Strategic Management] (Category: Proposed; Subcategory: Proposed)

# Doctor of Philosophy in Physics (PhD-PHY)

## Semester 1

* Advanced Classical Mechanics → [Physics / Classical Mechanics (Advanced)] (Category: Proposed; Subcategory: Proposed)
* Departmental Seminar I → [Physics / Seminars & Journal Club] (Category: Proposed; Subcategory: Proposed)
* Mathematical Methods for Physicists → [Physics / Mathematical Methods] (Category: Proposed; Subcategory: Proposed)
* Quantum Mechanics I → [Physics / Quantum Mechanics] (Category: Proposed; Subcategory: Proposed)
* Research Methodology & Scientific Writing → [Physics / Seminars & Journal Club] (Category: Proposed; Subcategory: Proposed)

## Semester 2

* Departmental Seminar II → [Physics / Seminars & Journal Club] (Category: Proposed; Subcategory: Proposed)
* Electrodynamics (Advanced) → [Physics / Electrodynamics] (Category: Proposed; Subcategory: Proposed)
* Experimental Techniques / Computational Physics → [Physics / Experimental & Computational Physics] (Category: Proposed; Subcategory: Proposed)
* Quantum Mechanics II → [Physics / Quantum Mechanics] (Category: Proposed; Subcategory: Proposed)
* Statistical Mechanics → [Physics / Statistical Mechanics] (Category: Proposed; Subcategory: Proposed)

## Semester 3

* Comprehensive Literature Survey → [Physics / Seminars & Journal Club] (Category: Proposed; Subcategory: Proposed)
* High-Energy Physics (Intro) → [Physics / High-Energy Physics] (Category: Proposed; Subcategory: Proposed)
* Optics & Photonics (Advanced) → [Physics / Optics & Photonics] (Category: Proposed; Subcategory: Proposed)
* Qualifying Examination Preparation → [Physics / Seminars & Journal Club] (Category: Proposed; Subcategory: Proposed)
* Special Topics in Condensed Matter → [Physics / Condensed Matter Physics] (Category: Proposed; Subcategory: Proposed)

## Semester 4

* Research & Publication Work → [Physics / Thesis/Dissertation] (Category: Proposed; Subcategory: Proposed)
* Research Progress Seminar → [Physics / Seminars & Journal Club] (Category: Proposed; Subcategory: Proposed)
* Thesis Proposal / Literature Review → [Physics / Thesis/Dissertation] (Category: Proposed; Subcategory: Proposed)

## Semester 5

* Research & Publication Work → [Physics / Thesis/Dissertation] (Category: Proposed; Subcategory: Proposed)
* Research Progress Seminar → [Physics / Seminars & Journal Club] (Category: Proposed; Subcategory: Proposed)
* Thesis Proposal / Literature Review → [Physics / Thesis/Dissertation] (Category: Proposed; Subcategory: Proposed)

## Semester 6

* Research & Publication Work → [Physics / Thesis/Dissertation] (Category: Proposed; Subcategory: Proposed)
* Research Progress Seminar → [Physics / Seminars & Journal Club] (Category: Proposed; Subcategory: Proposed)
* Thesis Proposal / Literature Review → [Physics / Thesis/Dissertation] (Category: Proposed; Subcategory: Proposed)

## Semester 7

* Research & Publication Work → [Physics / Thesis/Dissertation] (Category: Proposed; Subcategory: Proposed)
* Research Progress Seminar → [Physics / Seminars & Journal Club] (Category: Proposed; Subcategory: Proposed)
* Thesis Proposal / Literature Review → [Physics / Thesis/Dissertation] (Category: Proposed; Subcategory: Proposed)

# Postgraduate Diploma in Cyber Security (PGD-CYBER)

## Semester 1

* Cryptography (Basics) → [Cyber Security / Cryptography (Basics)] (Category: Proposed; Subcategory: Proposed)
* Foundations of Cyber Security → [Cyber Security / Foundations of Cyber Security] (Category: Proposed; Subcategory: Proposed)
* Linux & Scripting for Security → [Cyber Security / Linux & Scripting for Security] (Category: Proposed; Subcategory: Proposed)
* Network Security → [Cyber Security / Network Security] (Category: Proposed; Subcategory: Proposed)
* Web Application Security (Intro) → [Cyber Security / Web Application Security] (Category: Proposed; Subcategory: Proposed)

## Semester 2

* Blue Team vs Red Team Lab / Project → [Cyber Security / Blue vs Red Team Labs] (Category: Proposed; Subcategory: Proposed)
* Cloud Security (Intro) → [Cyber Security / Cloud Security] (Category: Proposed; Subcategory: Proposed)
* Ethical Hacking & Penetration Testing → [Cyber Security / Ethical Hacking & Penetration Testing] (Category: Proposed; Subcategory: Proposed)
* Incident Response & Forensics → [Cyber Security / Incident Response & Forensics] (Category: Proposed; Subcategory: Proposed)
* Security Operations Center (SOC) Fundamentals → [Cyber Security / SOC Fundamentals] (Category: Proposed; Subcategory: Proposed)

# Master of Data Science (MDS)

## Semester 1

* Communication for Data Professionals → [Professional Skills / Communication for Tech Professionals] (Category: Proposed; Subcategory: Proposed)
* Data Wrangling & Visualization → [Data Science / Data Wrangling & Cleaning] (Category: Existing; Subcategory: Existing)
* Linear Algebra & Optimization → [Data Science / Statistics for Data Science] (Category: Existing; Subcategory: Existing)
* Programming for Data Science (Python) → [Python / Python for Data Science] (Category: Existing; Subcategory: Existing)
* Statistics & Probability for Data Science → [Data Science / Statistics for Data Science] (Category: Existing; Subcategory: Existing)

## Semester 2

* Databases & Data Engineering Basics → [Sql / SQL Basics] (Category: Existing; Subcategory: Existing)
* Elective I → [Professional Skills / Research Methodology & Writing] (Category: Proposed; Subcategory: Proposed)
* Experimentation & A/B Testing → [Data Science / Exploratory Data Analysis (EDA)] (Category: Existing; Subcategory: Existing)
* Machine Learning I (Supervised) → [Data Science / Machine Learning Basics] (Category: Existing; Subcategory: Existing)
* Responsible AI & Ethics → [Professional Skills / Ethics & Governance] (Category: Proposed; Subcategory: Proposed)

## Semester 3

* Big Data Systems (Spark) → [Data Science / Big Data & Spark] (Category: Existing; Subcategory: Existing)
* Deep Learning (Intro) → [Data Science / Deep Learning] (Category: Existing; Subcategory: Existing)
* Elective II → [Professional Skills / Research Methodology & Writing] (Category: Proposed; Subcategory: Proposed)
* MLOps & Model Deployment → [Web Development / Deployment & DevOps for Web] (Category: Existing; Subcategory: Existing)
* Machine Learning II (Unsupervised/Advanced) → [Data Science / Machine Learning Basics] (Category: Existing; Subcategory: Existing)

## Semester 4

* Applied Analytics for Business/Science → [Data Science / Data Science Projects & Case Studies] (Category: Existing; Subcategory: Existing)
* Capstone Project → [Professional Skills / Capstone/Internship] (Category: Proposed; Subcategory: Proposed)
* NLP (Intro) → [Data Science / Natural Language Processing (NLP)] (Category: Existing; Subcategory: Existing)
* Seminar & Portfolio → [Professional Skills / Seminar & Portfolio] (Category: Proposed; Subcategory: Proposed)
* Time Series & Forecasting → [Data Science / Data Science Projects & Case Studies] (Category: Existing; Subcategory: Existing)