

**MBA (Pharma Tech.)****FIRST YEAR****TRIMESTER I**

| <b>AREA</b>      | <b>CODE</b> | <b>SUBJECT</b>                     |
|------------------|-------------|------------------------------------|
| Mathematics      | 445 MAT     | Remedial Mathematics               |
| Life Sciences    | 444 LSC     | Remedial Biology                   |
| Pharmaceutics    | 512 PCE     | General Pharmacy                   |
| Pharm. Chem.     | 510 PCH     | Basics in Pharmaceutical Chemistry |
| Computer Science | 852 CSC     | Computer Science                   |
| Management       | 859 LAB     | Legal aspects of Pharma Business   |
| Management       | 860 COM     | Concepts of Marketing              |

**TRIMESTER II**

| <b>AREA</b>     | <b>CODE</b> | <b>SUBJECT</b>                                    |
|-----------------|-------------|---|
| Mathematics     | 515 MAT     | Applied Mathematics and Pharmaceutical Statistics |
| Pharm. Chem.    | 516 PCH     | Pharmaceutical Organic Chemistry - I              |
| Pharmaceutics   | 513 PCE     | Physical Pharmacy - I                             |
| Special Subject | 851 SPL     | Principles of Management                          |
| Management      | 861 BC      | Business Communication                            |
| Management      | 862 COI     | Constitution of India                             |

**TRIMESTER III**

| <b>AREA</b>     | <b>CODE</b> | <b>SUBJECT</b>                           |
|-----------------|-------------|--|
| Pharmacology    | 451 PCO     | Human Anatomy and Physiology - I         |
| Pharmaceutics   | 514 PCE     | Physical Pharmacy II                     |
| Special Subject | 853 SPL     | Disaster Management                      |
| Pharm. Analysis | 533 PHA     | Pharmaceutical Analytical Approaches - I |
| Management      | 863 ISM     | Information system for Managers          |
| Management      | 864 SLS     | Selling skills                           |

**SECOND YEAR****TRIMESTER IV**

| <b>AREA</b>     | <b>CODE</b> | <b>SUBJECT</b>                        |
|-----------------|-------------|---------------------------------------|
| Pharmacology    | 455 PCO     | Human Anatomy and Physiology - II     |
| Special Subject | 854 SPL     | Principles of Economics               |
| Pharm.Chem      | 520 PCH     | Pharmaceutical Organic Chemistry - II |
| Pharmaceutics   | 517 PCE     | Unit Operations - I                   |
| Management      | 865 FAC     | Financial accounting                  |

**TRIMESTER V**

| <b>AREA</b>     | <b>CODE</b> | <b>SUBJECT</b>                            |
|-----------------|-------------|---|
| Pharm. Analysis | 535 PHA     | Pharmaceutical Analytical Approaches - II |
| Pharmacognosy   | 462 PCG     | Pharmacognosy - I                         |
| Pharmaceutics   | 519 PCE     | Unit Operations - II                      |
| Life Sciences   | 448 LSC     | Pharmaceutical Microbiology               |
| Management      | 866 BEC     | Business Economics                        |
| Management      | 867 ENV     | Environment Management                    |

**TRIMESTER VI**

| <b>AREA</b>       | <b>CODE</b> | <b>SUBJECT</b>                                     |
|-------------------|-------------|--|
| Life Sciences     | 518 LSC     | Biochemistry                                       |
| Pharmaceutics     | 423 PCE     | Pharmaceutical Technology - I                      |
| Life Sciences     | 467 LSC     | Pathophysiology - I                                |
| Hospital Pharmacy | 426 HOP     | Hospital Pharmacy                                  |
| Management        | 868 SMMD    | Statistical methods for Management decision making |

**THIRD YEAR**  
**TRIMESTER VII**

| AREA           | CODE    | SUBJECT                                    |
|----------------|---------|--|
| Life Sciences  | 810 LSC | Pathophysiology - II                       |
| Pharmaceutics  | 435 PCE | Pharmaceutical Technology – II             |
| Pharm Analysis | 536 PHA | Pharmaceutical Analytical Approaches - III |
| Pharmacognosy  | 469 PCG | Pharmacognosy - II                         |
| Management     | 869 CA  | Cost accounting                            |
| Management     | 870 OR  | Operations Research                        |

**TRIMESTER VIII**

| AREA              | CODE    | SUBJECT                             |
|-------------------|---------|-------------------------------------|
| Pharmacology      | 458 PCO | Pharmacology – I                    |
| Pharmaceutics     | 427 PCE | Biopharmaceutics & Pharmacokinetics |
| Pharm Chem        | 522 PCH | Medicinal Chemistry - I             |
| Quality Assurance | 855 QUA | Pharmacopeial Testing               |
| Management        | 871 PM  | Project Management                  |
| Management        | 872 PEC | Pharmacoeconomics                   |

**TRIMESTER IX**

| AREA                  | CODE    | SUBJECT   |
|-----------------------|---------|---|
| Management            | 873 CSR | Corporate Social responsibility                       |
| Management            | 874 ASA | Advanced Statistical Analysis                         |
| Management            | 875 PIT | Pharma Industry Trends                                |
| Management            | 876 OB  | Organizational Behaviour                              |
| Management            | 877 FAA | Financial analysis and Accounting                     |
| Management (Elective) | 878 SPH | Foreign Language(Spanish )                            |
|                       | 879 CNS | Foreign Language(Chinese)                             |
| Management            | 880 PSL | Pharma Industry Supply Chain and Logistics Management |

**FOURTH YEAR**

**TRIMESTER X**

| <b>AREA</b>   | <b>CODE</b> | <b>SUBJECT</b>                |
|---------------|-------------|-------------------------------|
| Pharmacology  | 461 PCO     | Pharmacology - II             |
| Pharm.Chem    | 429 PCH     | Medicinal Chemistry - II      |
| Life Sciences | 424 LSC     | Cell and Molecular Biology    |
| Pharmaceutics | 441 PCE     | Pharmaceutical Technology III |
| Management    | 880 FM      | Financial Management          |
| Management    | 881 OPM     | Operation Management          |
| Management    | 882 HRM     | Human Resource Management     |
| Management    | 883 MM      | Marketing Management          |

**TRIMESTER XI**

| <b>AREA</b>                    | <b>CODE</b> | <b>SUBJECT</b>   |
|--------------------------------|-------------|--|
| Pharmaceutics                  | 856 PCE     | Novel Drug Delivery System (NDDS)                            |
| Pharm Chem                     | 440 PCH     | Medicinal Chemistry - III                                    |
| Pharmacology                   | 473 PCO     | Pharmacology - III   |
| Management                     | 884 RM      | Research Methodology   |
| Management                     | 885 QMSP    | Quality Management systems and Practices                     |
| Management                     | 886 OSD     | Organizational theory , structure and design                 |
| Management                     | 887 SMP     | Seminar paper  |
|                                |             | ELECTIVE I   |
| <b>MANAGEMENT ELECTIVE - I</b> |             |  |
| Management                     | 888 FNP     | Finance Elective : Financial products and Services           |
| Management                     | 889 SAD     | Operations & IT Elective : System Analysis & Design          |
| Management                     | 890 SFM     | Marketing Elective : Sales Management                        |
| Management                     | 891 IGD     | HR Elective : Individual and group dynamics in organizations |

**TRIMESTER XII**

| <b>AREA</b>                   | <b>CODE</b> | <b>SUBJECT</b>  |
|-------------------------------|-------------|---|
| Pharmaceutics                 | 443 PCE     | Drug Regulatory Affairs                                     |
| Life Sciences                 | 472 LSC     | Pharmaceutical Biotechnology                                |
|                               | 437 SPL     | Clinical Pharmacy & Drug Interaction                        |
|                               | Tech.       | Elective - II   |
| Special subject               | 893 SPL     | Community Pharmacy & Pharmacy Practice                      |
| Pharmacognosy                 | 434 PCG     | Herbal Drug Technology And Standardization Of Herbal Drugs  |
| Management                    | 894 IPM     | Intellectual Property Management                            |
| Management                    | 895 EPS     | Enterprise Planning System with SAP                         |
| <b>MANAGEMENT ELECTIVE I</b>  |             |   |
| Management                    | 896 ISN     | Finance : Insurance   |
| Management                    | 897 INP     | Operations & IT Elective : International Project Management |
| Management                    | 898 CBH     | Marketing Elective : Consumer behavior                      |
| Management                    | 899 LDP     | HR Elective : Learning and development                      |
| Management                    | 900 PCD     | Personality & creativity development workshop               |
| Management                    | 901 RHP     | Research Paper  |
| <b>MANAGEMENT ELECTIVE II</b> |             |   |
| Management                    | 902 FIM     | Finance : Financial Institutions and Markets                |
| Management                    | 903SOP      | Operations & IT Elective : Services Operations              |
| Management                    | 904 MPP     | Marketing Elective : Marketing of Pharmaceutical products   |
| Management                    | 905 HRP     | HR Elective : HR planning                                   |

**List of Pharma Electives I & II for trimester XI & XII:**

1. Pharmaceutical Polymer science
2. Pharmaceutical Packaging
3. Pharmaceutical Marketing
4. Clinical Pharmacy & Research
5. Pharmaco epidemiology
6. Modern Approaches in Pharmaceutical Engineering
7. Pharmacy Chain Management
8. Pharmacovigilance
9. Patient Counseling
10. Tablet Tooling
11. Intellectual Property Rights
12. Stem Cell Technology

**\*Note: 20 students minimum required to start on elective for each trimester.**

**FIFTH YEAR  
TRIMESTER XIII**

| AREA       | CODE    | SUBJECT  |
|------------|---------|--|
| Management | 906 MIP | Project Work – Management Internship Program<br>(5 months) |

#### TRIMESTER XIV

| AREA  | CODE     | SUBJECT  |
|---|----------|--|
| Management  | 907 RCI  | Regulation and Compliance in Pharmaceutical Industry                         |
| Management  | 908 ITP  | IT in Pharma Industry  |
| Management  | 909 SM   | Strategic Management   |
| <b>(Elective Options): Pharm Tech Area</b>          |          |  |
| Management  | 910 MD   | Medical Devices  |
| Management  | 911 BPM  | Business Process Management  |
| Management  | 912 HCR  | Healthcare Research  |
| Management  | 913 PCG  | Pharmacovigilance  |
| <b>(Elective Options): Marketing Area</b>           |          |  |
| Management  | 914 DMG  | Distribution Management  |
| Management  | 915 IMKT | International Marketing  |
| Management  | 916 MDC  | Marketing Through Different Channels (Online Marketing, Social Media etc ..) |
| Management  | 917 CRM  | Customer relationship management   |
| <b>(Elective Options): Finance Area</b>             |          |  |
| Management  | 918 IAPM | Investment analysis and portfolio management                                 |
| Management  | 919 TP   | Tax Planning (Corporate & Personal)  |
| Management  | 920 MCB  | Management of Commercial Banks   |
| Management  | 921 SFM  | Strategic Financial Management   |
| <b>(Elective Options): IT &amp; Operations Area</b> |          |  |
| Management  | 922 SCM  | Supply Chain Management  |

|   |          |   |
|---|----------|---|
| Management                                  | 923 EBS  | E- business                             |
| Management                                  | 924 WCM  | World Class Manufacturing               |
| Management                                  | 925 OPC  | Operation Strategy (Planning & Control) |
| <b>(Elective Options): HR &amp; OB Area</b> |          |   |
| Management                                  | 926 IHRM | International HRM                       |
| Management                                  | 927 CPB  | Compensation and Benefits               |
| Management                                  | 928 LPI  | Leadership, Power and Influence         |
| Management                                  | 929 PMM  | Performance Management                  |



**TRIMESTER XV**

| <b>AREA</b>  | <b>CODE</b> | <b>SUBJECT</b>   |
|--|-------------|--|
| Management   | 930 EPM     | Entrepreneurship Management                              |
| Management   | 931 PRE     | Public Health Research & Epidemiology                    |
| Management   | 932 NP      | New Product (Pharma Industry New Drug) Development       |
| Management   | 933 SNS     | Selling & Negotiation Skills                             |
| <b>Elective Options): Pharm Tech Area</b>          |             |  |
| Management   | 935 HIS     | Health Insurance /Health Financing System                |
| Management   | 936 MTAT    | Management of (Pharma) Technology Acquisition & Transfer |
| Management   | 937 DPCO    | DPCO   |
| Management   | 938 HM      | Hospital Management                                      |
| <b>Elective Options): Marketing Area</b>           |             |  |
| Management   | 939 MTS     | Marketing Strategy                                       |
| Management   | 940 BM      | Brand Management   |
| Management   | 941 SP      | Strategies for OTC Products                              |
| <b>Elective Options): Finance Area</b>             |             |  |
| Management   | 942 RM      | Risk Management  |
| Management   | 943 INF     | International Finance                                    |
|  | 944 MMA     | Management of Mergers & Acquisition                      |
| <b>Elective Options): IT &amp; Operations Area</b> |             |  |
|  | 945 SM      | Simulation Modeling                                      |
|  | 946 KM      | Knowledge Management                                     |
|  | 947 GOL     | Global Operations and Logistics                          |
| <b>Elective Options): HR &amp; OB Area</b>         |             |  |
|  | 948 SHRM    | Strategic HRM  |
|  | 949 ERL     | Employee relations and Labour Law                        |
|  | 950 ODC     | Organization Development and Change management           |