#### 1.1 .1 Curriculum Design and Development

Curriculum development/adopted have reference to the local/ national/ regional/global development needs with learning objectives including programme outcomes, programme specific outcomes and course outcomes of the entire programme offered by the university.

#### **Response:**

The global and national needs, which also include local needs, consist of poverty alleviation, elimination of gender and social inequity, prevention of environment degradation, ensuring food security and focussing on issues of agriculture, health and nutrition, environmental sustainability, climate change, water and sanitation and quality education. Unemployment and economical backwardness of the state can be taken as two specific local problems .Trained, skilled, qualified and educated individuals are required to address these concerns in different capacities. Different programmes of the University have reference to these requirements reflected in the Programme outcomes , Programme Specific Outcomes and Course outcomes.

# Programme Outcome: At the end of the Post Graduate Programmes students develop aptitude/ skill/ ability/ capacity for the following:

#### **PO1: Employment**

- -employment in various capacities in different organizations
- self-employment in certain areas

#### PO2: Research

- research aptitude

# **PO3: Critical thinking:**

- clear and rational thought
- identifying the logical connection between ideas, their relevance and importance
- constructing and assessing ideas
- recognizing inconsistencies in arguments and ways of thinking

#### PO4: Social Awareness and Interaction:-

- understanding of social circumstances and problems, both of the local and national dimensions
- -active participation in governmental and non governmental interventions for solving social problems

#### **PO5: Political Consciousness:**

- consciousness of political processes
- actively participating in all such processes adopted by the University, as witnessed in Patna University Student Union Elections

#### **PO6: Ethics and Responsible Citizenship:**

- Perception and appreciation of diverse value systems
- Understanding the moral and ethical dimensions of one's decisions

- Taking responsibility for decisions taken
- Becoming responsible, informed and committed citizen

# **PO7: Women Empowerment and Inclusive Education:**

The University promotes gender equity and inclusive education since the reservation policy of the state government is strictly followed, and about 60% students are girls. The women students are

- equipped with required skill and qualification for research, employment and for taking on diverse responsibilities
- trained to develop social awareness and sense of responsibility
- able to take informed decisions
- empowered

## PO8: Environment and Sustainability:

- Understanding of the issues related to environment and sustainable development

## **Programme Specific Outcome**

| S. | Programme name       | Programme C | Programme Specific Outcome  |  |  |  |
|----|----------------------|-------------|---|--|--|--|
| 1  | LL.M (Law)           | L-L-M       | PSO1:produces legal experts, good academicians, legal professionals                   |  |  |  |
|    |                      |             | PSO2: equips students with knowledge of computer and other scientific developr        |  |  |  |
| 2  | Master of Education  |             | PSO1:produces academicians and trained teachers                                       |  |  |  |
|    |                      |             | PSO2: prepares students for research in the field of Education                        |  |  |  |
|    |                      |             | PSP3: produces experts on multi-dimensional aspects related to education              |  |  |  |
| 3  | M.Com                | M-COM       | PSO1: To impart knowledge among the students of the Department.                       |  |  |  |
|    |                      |             | PSO2:To enhance skill among the students of the Department.                           |  |  |  |
|    |                      |             | PSO3:To develop culture and values among the students of the Department.              |  |  |  |
|    |                      |             | PSO3:To promote leadership quality among the students of the Department.              |  |  |  |
|    |                      |             | PSO4:To prepare students to be able to address the need of the Society.               |  |  |  |
|    |                      |             | PSO5:To motivate students for participating in the extra-curricular activities at the |  |  |  |
|    |                      |             | PSO6:To develop an Innovation and creative mind among the students.                   |  |  |  |
|    |                      |             | PSO7:To enhance the decision-making ability among the students.                       |  |  |  |
|    |                      |             | 2SO8:To focus on Research and Research related activities among the research sc       |  |  |  |
|    |                      |             | PSO9:To enrich the knowledge and also prepare them to be competent as a Pro           |  |  |  |
|    |                      |             | world.  |  |  |  |
|    |                      |             | PSO10:To make the students employable in the competitive and challenging job r        |  |  |  |
|    |                      |             |   |  |  |  |
|    |                      |             |   |  |  |  |
|    |                      |             |   |  |  |  |
| 4  | Master of Business A | M-B-A       | PSO1: To provide opportunities to students of different disciplines to join th        |  |  |  |
|    |                      |             | capabilities in their careers.  |  |  |  |
|    |                      |             | PSO2: To develop core competency among the management students to m                   |  |  |  |
|    |                      |             | scenario in the fields of Industry and Trade as well as ever increasing Service       |  |  |  |

| _ |   |       |  |
|---|---|-------|--|
| - | MA in Domesti                             |       | PSO3: To provide an excellent managerial competence among the students for organisation in Liberalised world Economies.  PSO4: To make students well equipped with the broad spectrum of knowle resource so that they may be more professional and specialised in their respectively. To create a Think-Tank of excellent managerial inputs for present and PSO6: To provide managerial inputs to the Small Sectors (SSI Units) sprofessional in managing their units. |
| 5 | M.A. in Personnel and Industrial Relation |       | PSO1: able to understand Industrial Business, Economic, Social Posociety.  |
|   |   |       | PSO2: able to address the challenges with suitable responses for the iden  |
|   |   |       | PSO3: are equipped to engage in the management of Industrial   |
|   |   |       | organizations, government organization, skill development.   |
|   |   |       | PSO4: develop professional approach, H.R. Practitioners, legal practition  |
|   |   |       | PSO5:develop entrepreneurial abilities to linked with 'Make in India', 'S  |
|   |   |       | PSO6: are prepared for career in different organizations such as Industry  |
|   |   |       | finance, marketing, business development, Agriculture and other comme  |
|   |   |       | PSO7:students become professionally equipped, skilled, knowledge   |
|   |   |       | organizations, society community and government.   |
|   | Market C.I.                               | MIIG  |  |
|   | Master of Library of Science              | M-LIS | PSO1:students understand the systems and technologies that facilitate  |
|   |   |       | serve the diverse needs of users   |
|   |   |       | PSO2: students become proficient in the theory and application of sk   |
|   |   |       | technology environments, in any chosen area of specialization  |
|   |   |       | PSO3: students receive critical grounding in theoretical perspectives t  |
|   |   |       | knowledge that inform their professional practices including research, or  |
|   |   |       | PSO4: students become innovative, ethical problem-solvers who ar   |
| 1 |   |       | collaboration, and reflection  |
| 6 | M So Mothomatica                          |       | collaboration, and reflection  |
| 6 | M.Sc. Mathematics M C A                   |       |  |
| 6 |   |       | PSO1: provides thorough and sound background in theoretical and skill oriented technologies  |
| 6 |   |       | PSO1: provides thorough and sound background in theoretical and skill oriented technologies PSO2: enables students to do research in recent interdisciplinary areas  |
| 6 |   |       | PSO1: provides thorough and sound background in theoretical and skill oriented technologies PSO2: enables students to do research in recent interdisciplinary areas PSO3: develops entrepreneurial skills among the students PSO1: creates better understanding of the subjects of plant diversity, c  |
| 6 | MCA                                       |       | PSO1: provides thorough and sound background in theoretical and skill oriented technologies PSO2: enables students to do research in recent interdisciplinary areas PSO3: develops entrepreneurial skills among the students  PSO1: creates better understanding of the subjects of plant diversity, c biochemistry, taxonomy etc for economic use.  |
| 6 | MCA                                       |       | PSO1: provides thorough and sound background in theoretical and skill oriented technologies PSO2: enables students to do research in recent interdisciplinary areas PSO3: develops entrepreneurial skills among the students PSO1: creates better understanding of the subjects of plant diversity, c  |

|              |                        |       | for human, social and economic welfare PSO4: leads to research and teaching and preparation for various comp service.   |
|--------------|------------------------|-------|---|
| <del> </del> | M.Sc.<br>Biotechnology |       | PSO1: to impart advanced knowledge on modern biology PSO2: curriculum fosters problem-solving and critical thinking skills that prepare PSO3: insights on the key research areas of Advances in Microbial, Plant and En   |
|              |                        |       | PSO4: enables the students to apply their learning and develop end results.   |
|              |                        |       | PSO5: programme focuses on career-oriented subjects like Microbial Biotechnoculture, Animal Biotechnology, Enzyme Technology and Bioinformatics.  |
| 7            | M.Sc. Zoology          |       | PSO1: Provides advanced, comprehensive and holistic knowledge about animal s PSO2:Opportunity for research both in animal sciences and medical science; PSO3:Application in the biological and medical research, environmental biology PSO4:Generates employability in various industries related to biological cultivations.   |
| 8            | M.Sc. Geology          |       | PSO1: Produces Earth Scientists and trained personnel for teaching and research PSO2: Equips students with technological tools, skills and geological data and studies PSO3: Producing versatile geologists who understand the significance of sust Earth resources.  |
| 9            | M.Sc.( Chemistry)      | MSCHE | PSO1: develops original research abilities PSO2: promotes entrepreneurship among students   |
| 1 0          | M.Sc. Physics          |       | After the completion of their M.Sc. Physics students have:  |
|              |                        |       | PSO1: strong analytical abilities. PSO2: qualities needed for teaching of Science and doing research. PSO3: knowledge of theoretical as well as experimental areas of Physics. PSO4:capabilities to generate self-employment. PSO5: computational Skill and ICT development.  |
| 1            | M.Sc.<br>Biochemistry  |       |   |
| 1 2 2        | M.Sc.(Botany)          | MSBOT | <ul> <li>PSO1:Academic: Better understanding of the subjects of plant diversity biochemistry, taxonomy etc for economic use.</li> <li>PSO2:Research: Development of ideas and concepts from the acquired sustainable development, conservation and preservation of endangered PSO3:Application – Environment, social, Scientific: Understand application and plant metabolites for human, social and economic welfare</li> <li>PSO4:Employability: Research and teaching and preparation for various forest service.</li> </ul> |
| 1 3          | M.Sc.Biotechnolog      |       |   |

| 1                                      | M.Sc./M.A.          |        | PSO1: as an applied science, Statistics is used in all disciplines such as Engin   |
|--|---------------------|--------|--|
| 4                                      | Statistics          |        | Economics etc.   |
|  |                     |        | PSO2: research in Population Science and in Mathematical Statistics  |
|  |                     |        | PSO3: generates employment opportunities in Statistical Service, NSSO,CSO, S   |
|  |                     |        | etc.   |
| 1                                      | M.A.( History)      | MAHIS  | PSO1: expands horizon of historical understanding and promotes academic under  |
| 5                                      |                     |        | PSO2: provides advice to students on how to take competitive exams, face interv  |
|  | M.A. Women's        |        | PSO1: expands horizon of historical understanding and promotes academic under  |
|  | Studies             |        | PSO2: provides advice to students on how to take competitive exams, face interv  |
| 1                                      | M.A. Psychology     |        | PSO1: Utility driven subject   |
| 6                                      |                     |        | PSO2 provides research driven knowledge about human behaviour  |
|  |                     |        | PSO3: sensitizes students to psycho social issues and provides inputs in psychological input inp |
|  | 75.4 (F)            | 141500 | for solving problems of daily life   |
| 1                                      | M.A.( Economics)    | MAECO  | PSO1: enhances academic paradigms of the students  |
| 7                                      |                     |        | PSO2: updates research skills to enable students to undertake research in social   |
|  |                     |        | relevant areas   |
|  |                     |        | PSO3: creates employability in academics, banking, insurance, administration, co   |
| 1                                      | М А (А              | NAATT  | PSO4: trains students as better and responsible citizens of society  |
| 1                                      | M.A. (Ancient       | MAAIH  | PSO1: promotes interest in research in the subject   |
| 8                                      | Indian              |        | PSO2: provides knowledge of excavation and research  |
|  | History&Archaeol    |        | PSO3: provides knowledge of Museum and Tourism   |
| 1                                      | ogy) M.A. in Social |        | PSO4: raises consciousness for protection and promotion of heritage PSO: prepares skilled personnel to work in different capacities related to social  |
| 9                                      | Work(MSW)           |        | and non governmental sectors   |
| 2                                      | M.A. (Home          | MAHSC  | PSO1: as an interdisciplinary subject, it equips students with theoretical and pr  |
| $\begin{vmatrix} 2 \\ 0 \end{vmatrix}$ | Science)            | WAIISC | homes.   |
| U                                      | Science)            |        | PSO2: equips students for research in commercial food service industry and healt   |
|  |                     |        | PSO3: has application in the field of human environment and society, nutrition at  |
|  |                     |        | PSO4: provides employment opportunity in hospitals, dietetics, counselling,  |
|  |                     |        | extension education and community development programmes.  |
| 2                                      | M.A. Political      |        | PSO1: prepares for research in different branches of the subject   |
| 1                                      | Science             |        | PSO2: inspires active citizenship  |
|  |                     |        | PSO3: trains students in life skills   |
| 2                                      | M.A. (Personnel     |        | PSO1: provides specialized education and training to the students for jobs in a  |
| 2                                      | Management and      |        | welfare, Govt. Labour departments, welfare agencies, career in trade unions  |
|  | Industrial          |        | PSO2: develops competence for innovative research  |
|  | Relations)          |        | PSO3: develops communicative, interpersonal and leadership skills, lifelong leadership   |
|  |                     |        | environment and commitment to nation and humanity  |
|  | M.A.in Rural        |        | PSO1:To understand Rural and Industrial Business, Agro based busines   |
|  | Studies (Rural      |        | cultural framework of the Rural society.   |
|  | Management          |        | Cultural Italiie work of the Ivaral Society.   |
|  | and                 |        | PSO2:To address the challenges with suitable responses for the identified  |
|  | Development)        |        | PSO3:Engage in the management of organization (Public & priva  |
|  | MARST               |        | government organization, skill development.  |
|  |                     |        | PSO4:To develop professional approach, Rural H.R. Practitioners, le  |
|  |                     |        | development personnel & social welfare field.  |
|  |                     |        | •  |
|  |                     |        | PSO5:To develop entrepreneurial abilities to linked with 'Make in I  |

| Eintrepreneur related to rural sectors' and 'Health Sector'. PSO6:Different careers options in different field of organizations such as Finance, NGO's, Micro-finance, marketing, business development, Agr well as social welfare sectors and other commercial organization. PSO6:To make students, professionally equipped skilled knowledges profession, organizations, society community and government.    PSO1: produces skilled personnel for employment in diverse fields such as Clin analysis. Cartography, Water and Soil Conservation, Urban and Rural Planning Disaster management, Environmental Consultancy etc. PSO2: develops qualities needed for teaching of Science and doing research. PSO2: develops qualities needed for teaching of Science and doing research. PSO2: develops qualities needed for teaching of Science and doing research. PSO2: develops qualities needed for teaching of Science and doing research. PSO2: develops them psO3: acquains them with the application of the tools of sociology. PSO4: prepares students for employment in many fields like NGO sector, Resector etc.   |   |                     |         |  |
|--|---|---------------------|---------|--|
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| profession, organizations, society community and government.    M.A. (Geography)   |   |                     |         | well as social welfare sectors and other commercial organization.                  |
| profession, organizations, society community and government.    M.A. (Geography)   |   |                     |         | PSO6:To make students, professionally equipped skilled knowledges                  |
| MAGEO  MAGEO  PSO1: produces skilled personnel for employment in diverse fields such as Clin analysis, Cartography, Water and Soil Conservation, Urban and Rural Planning Disaster management, Environmental Consultancy etc. PSO2: develops qualities needed for teaching of Science and doing research.  MA. Sociology  MA. Sociology  PSO1: provides conceptual clarity to students PSO3: acquaints them with the application of the tools of sociology PSO4: prepares students for research on contemporary social problems PSO3: acquaints them with the application of the tools of sociology PSO4: prepares students for employment in many fields like NGO sector, Rusector etc.  MAA.(Philosophy)  MAPHI  PSO1: produces informed students with knowledge of logic, different approach philosophical thought. PSO2: develops aptitude for research in the field of Philosophy PSO3: inculcates a synergy between spirituality and character formation which etc.  MAA.(English)  MAENG  MAENG  MAENG  MAENG  MAENG  MAENG  PSO1: prepares students for employment as teachers and academics PSO2: sensitizes students for the issues of environment protection and sustainabil and non-human ecology. PSO3: various curricular and co curricular activities conducted develop communamong the students  MAA. (Urdu)  MAURD  PSO1: prepares students for employment as teachers, academics and translators PSO2: provides knowledge and skill required for research in the field of Urdu lite  MASAN  PSO1: prepares students for employment as teachers and academics PSO2: provides knowledge and skill required for research in the field of Sanskrit PSO3: promotes spoken Sanskrit to equip students for employment in multi medi  MAA. Hindi  PSO1: prepares students for employment as teachers and academics PSO2: provides knowledge and skill required for research in the field of Hindi lite   |   |                     |         |  |
| analysis, Cartography, Water and Soil Conservation, Urban and Rural Planning Disaster management, Environmental Consultancy etc. PSO2: develops qualities needed for teaching of Science and doing research.  M.A. Sociology  PSO1: provides conceptual clarity to students PSO2: equips students for research on contemporary social problems PSO3: acquaints them with the application of the tools of sociology PSO4: prepares students for employment in many fields like NGO sector, Rt sector etc.  PSO1: produces informed students with knowledge of logic, different approach philosophical thought. PSO2: develops aptitude for research in the field of Philosophy PSO3: inculcates a synergy between spirituality and character formation which et PSO1: prepares students for employment as teachers and academics PSO2: provides knowledge and skill required for research in the field of English PSO3: essuitizes students to the issues of environment protection and sustainabil and non-human ecology. PSO5: various curricular and co curricular activities conducted develop communation among the students  M.A. (Urdu)  MAURD PSO1: prepares students for employment as teachers, academics and translators PSO2: provides knowledge and skill required for research in the field of Urdu lite  M.A. (Sanskrit)  MASAN PSO1: prepares students for employment as teachers and academics PSO2: provides knowledge and skill required for research in the field of Sanskrit PSO3: provides knowledge and skill required for research in the field of Sanskrit PSO3: provides knowledge and skill required for research in the field of Hindi lite  M.A. (Hindi) PSO1: prepares students for employment as teachers and academics PSO2: provides knowledge and skill required for research in the field of Hindi lite  |   |                     |         | profession, organizations, society community and government.                       |
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| PSO3: promotes spoken Sanskrit to equip students for employment in multi medi  M.A. Hindi  PSO1: prepares students for employment as teachers and academics PSO2: prepares students for employment as journalists PSO3: provides knowledge and skill required for research in the field of Hindi lit   | 2 | M.A.( Sanskrit)     | MASAN   |  |
| 2 M.A. Hindi PSO1: prepares students for employment as teachers and academics PSO2: prepares students for employment as journalists PSO3: provides knowledge and skill required for research in the field of Hindi lit   | 8 |                     |         |  |
| PSO2: prepares students for employment as journalists PSO3: provides knowledge and skill required for research in the field of Hindi lit   |   |                     |         | PSO3: promotes spoken Sanskrit to equip students for employment in multi medi      |
| PSO2: prepares students for employment as journalists PSO3: provides knowledge and skill required for research in the field of Hindi lit   | 2 | M.A. Hindi          |         | PSO1: prepares students for employment as teachers and academics                   |
|  | 9 |                     |         |  |
|  |   |                     |         | PSO3: provides knowledge and skill required for research in the field of Hindi lit |
| DOOL CLUB I  |   |                     |         |  |
| 3 MAster in PSO1: contributes in creation of healthy academic environment  | 3 | MAster in           |         | PSO1: contributes in creation of healthy academic environment                      |
| 0 Journalism and PSO2: contributes to development of society oriented processes  | 0 | Journalism and      |         | PSO2: contributes to development of society oriented processes                     |

|        | Mass                                       |       | PSO3: promotes use of environment related, social and scientific processes and a  |
|--------|--|-------|---|
|        | Communication(M AJMS)                      |       | PSO4: equips Journalism and Mass Communication students with knowledge and  |
| 3      | M.A. (Bengali)                             | MABEN | PSO1: prepares students for employment as teachers and academics<br>PSO2: provides knowledge and skill required for research in the field of Bengali  |
| 3 2    | M.A. (Maithili)                            | MAMAI | PSO1: prepares students for employment as teachers, academics, translators and i PSO2: provides knowledge of Maithili for use as a subject in UPSC and BPSC of PSO3: provides knowledge and skill required for research in the field of Maithili  |
| 3      | M.A.Arabi                                  |       | PSO1: makes students proficient in Arabic as an international link language PSO2: imparts knowledge on functional Arabic for translation, broadcasting and  |
| 3 4    | M.A. (Persian)                             | MAPER | PSO1: trains students in Modern Persian linguistic and literary skills for employetc.   |
| 3<br>5 | M.A. (Music)                               | MAMUS | PSO1: prepares students for academics, archival collection, artistic production etc<br>PSO2: introduces to systematic investigation into the sources and materials to a<br>and folk music.<br>PSO3:   |
| 3      |  |       |   |
| 3 6    | PG Diploma in<br>Clinical<br>Psychology    |       | PSO1: students gain knowledge and experience to work as clinical psychologist PSO2: acquire a scientific and evidence based approach to clinical psychology PSO3: equipped with knowledge of clinical psychology PSO4: understand the training, education and professional issues in clinical psych PSO4: are able to apply the knowledge in personality development, mental hea neuropsychology. |
| 3<br>7 | PG Diploma in Women's Studies              |       | PSO1:encourages academic understanding of the subject PSO2: expands the understanding of Women's issue PSO4: provides fresh ground for research.  |
| 3 8    | P G Diploma in<br>Public<br>Administration |       | PSO1: provides knowledge of the Indian Political system PSO2: develops research aptitude in areas related to various aspects of the Indian PSO3: is applicable in social and earth sciences PSO4: builds capacity for employment in administration and NGO Management   |

# Course Outcome of one selected course of the programmes

| SN | Programme | Course               | Outcome                                |
|----|-----------|----------------------|--|
| 1  | M.Ed      | C.C.8                | CO1:has academic significance          |
|    |           | Innovative Teaching- | CO2: provides area for research        |
|    |           | Learning             | CO3: has social applications           |
|    |           |                      |  |
| 2  | LLM       |                      |  |
| 3  | M.Com.    | MC 302               | CO1: makes students conversant         |
|    |           | Corporate Tax        | with the concept of corporate tax      |
|    |           | Planning and         | planning and Indian Tax laws           |
|    |           | Management           | CO2: makes students aware of their     |
|    |           |                      | implications for corporate management. |
| 4  | MBA       | MB 4M3               | CO1:emphasises on the concept and      |
|    |           | Strategic Marketing  | importance of strategic marketing,     |
|    |           | -                    | CO2: identifying the market structures |

| M.A. in Personnel Management and Industrial Relations(PMIR)      | CC-5<br>Industrial Relations      | and trends as well as the role of Sales Promotion in competitive marketing CO3: develop understanding of Brand Management and its positioning.  CO1: provides knowledge of the emerging pattern of industrial relations in the globalised world  CO2: provides knowledge of the role of the actors of industrial relations and its various dynamics  CO3: deals with futuristic way of handling the above  CO4:1 creates employability in the industrial word  CO5: develops academic pursuits  CO6: provides motivation for research. |
|--|-----------------------------------|--|
| M.A.IN RURAL<br>STUDIES (RURAL<br>MANAGEMENT AND<br>DEVELOPMENT) | CC-6 Rural Development Programmes | CO1: designed to study the various rural development programmes runs by the centre and the state Govt CO2: o develop industry, business and services in the rural areas and create conducive living conditions in the rural areas CO3: paper explore a vast area of research and innovation CO4: creates employability in the rural economy.   |

|   | M.Sc. (Botany)      | MBOTEC-1<br>Applied microbiology<br>and Plant Pathology | CO1: Equips students for industrial application of microbial diversity.  CO2: provides study of causal organism of plant pathogens and their control.  |
|---|---------------------|---|--|
|   | M.Sc. Biotechnology | MSBTCCC-11 Recombinant DNA Technology                   | theoretical knowledge of this technology  CO2:In conjunction with the practicals in molecular biology & genetic engineering, the students should be able to take up biological research  CO3: in conjunction with molecular biology and genetic engineering students can get placement in the relevant biotech industry  CO4:understand different types of intellectual property rights in general and protection of products derived from biotechnology research and issues related to application and obtaining patents.  CO5:gain knowledge of biosafety and risk assessment of products derived from recombinant DNA research and environment release of genetically modified organisms, national and international regulations.  CO6: Understand ethical aspects related to biological, biomedical, health care and biotechnology research. |
| 5 | M.Sc. Zoology       | ZOOM-202<br>Vertebrate<br>Endocrinology                 | CO1:provides knowledge and develops understanding in the area of hormones CO2: is related to Medical Endocrinology CO3: Employability in medical   |

|   |                    |  |   | diagnostic labs   |
|---|--------------------|--|---|---|
| 6 | M.Sc. (Geology)    | MGELCC-5<br>Geomorphology,<br>Remote Sensing<br>& GIS            |   | CO1:provides comprehensive understanding of land forms CO2: provides knowledge of aerial photography techniques CO3: application in RS and GIS. CO4:importance of GPS   |
| 7 | M.SC. (Chemistry)  | 302<br>Environmental,<br>Analytical<br>Bioinorganic<br>Chemistry | & | CO1: creates understanding of environments, pollutions, Analytical Chemistry and Bio inorganic Chemistry CO2: instructs in identification of pollutants in air, water and soil used by industries. CO3: provides knowledge of separation techniques as Chromotography, Thermal analysis CO4:has application in areas dealing with role of metal ions in biological process and of TG ,DTA in Thermal analysis CO5: generates employability in Environmental Research Centre and Industries. |
| 8 | M.Sc. Biochemistry | BCH-401<br>Biotechnology<br>Bioinformatics                       | & | CO1: creates understanding of basics of gene cloning CO2: develops better understanding of molecular processes CO3: generates better understanding and possible improvement of various environmental as well as social problems CO4: has use in various scientific research laboratories  |
| 9 | M.SC. Physics      | MPHYCC-9<br>Lab –II  |   | At the end of this course, students will be able to CO1: understand the basic idea about finding solutions using computational methods basics. CO2: learn how to interpret and analyze data visually, both during and after computation. CO3: gain an ability to apply physical principles to real-world problems. CO4: acquire a working knowledge of basic research methodologies, data analysis and interpretation. CO5: Realize the impact of physics in the global/societal context.   |
|   | M C A              | CS-42  |   | CO1:To provide conceptual as well as advance knowledge of Software  |

|    |  | Software<br>Engineering   | Engineering.   |
|----|--|---|--|
|    |  |   | CO2:Research in application design model.  |
|    |  |   | CO3:Wide applications in Software development and life cycle.  |
|    |  |   | CO4: Employability in software sectors and business world.   |
| 10 | M.Sc./M.A. Statistics                  | 401<br>Stochastic Process   | CO1: understanding of real life characteristics as a function of time CO2: application in almost all disciplines   |
| 11 | M A (History)                          | HIS-M-202<br>History of Bihar<br>(from the earliest<br>time to 1947 A.D.) | CO1: is important for research<br>CO2:is very useful for examinees of<br>State Civil Services examination  |
|    | M.A. Women's Studies                   | WS-M-101  | CO1: expands the understanding of the issues involved CO2: encourages research in the concerned areas  |
| 10 | M.A. Davidhalaavi                      | Day M 402   | CO1. greates understanding of house  |
| 12 | M.A. Psychology                        | Psy M 402<br>Occupational<br>Psychology                                   | CO1: creates understanding of human behaviour in work setting CO2: generates employability in industrial setting for assistance in selection, placement, performance appraisal and incentive determination CO3: generates employability in industrial setting for addressing problems of accidents, fatigue, morale, motivation, job satisfaction.   |
| 13 | M.A. (Economics)                       | Occupational  | behaviour in work setting CO2: generates employability in industrial setting for assistance in selection, placement, performance appraisal and incentive determination CO3: generates employability in industrial setting for addressing   |
|    |  | Occupational Psychology  Eco-M 301  | behaviour in work setting CO2: generates employability in industrial setting for assistance in selection, placement, performance appraisal and incentive determination CO3: generates employability in industrial setting for addressing problems of accidents, fatigue, morale, motivation, job satisfaction.  CO1: provides understanding of Indian economy. CO2: creates employability in Civil   |
| 13 | M.A. (Economics)  M.A. (Ancient Indian | Occupational Psychology  Eco-M 301 Indian Economy  103 Ancient Indian     | behaviour in work setting CO2: generates employability in industrial setting for assistance in selection, placement, performance appraisal and incentive determination CO3: generates employability in industrial setting for addressing problems of accidents, fatigue, morale, motivation, job satisfaction.  CO1: provides understanding of Indian economy. CO2: creates employability in Civil services, RBI etc.  CO1: creates interest in research in the subject area CO2: creates employability in the fields of Tourism, Museology and Historical |

|    | Work(MSW)                                | Social Welfare,           | in the relevant areas covered by the          |
|----|--|---------------------------|---|
|    | ,, 911(1126 ,, )                         | Administration and        | course  |
|    |  | Social Action             | CO2: helps in improving the delivery          |
|    |  |                           | system of various schemes.                    |
| 17 | M.A. Home Science                        | HSc M 101                 | CO1: provides knowledge of                    |
|    |  | Advanced Nutrition        | contamination of food and of                  |
|    |  |                           | procedures for minimization and               |
|    |  |                           | prevention                                    |
|    |  |                           | CO2: equips students for research in          |
|    |  |                           | the area                                      |
|    |  |                           | CO3: provides skill for analysis and          |
|    |  |                           | assessment of food quality and                |
|    |  |                           | production                                    |
|    |  |                           | CO4: provides skill, information and          |
|    |  |                           | knowledge for employment in various           |
|    |  |                           | sectors like hospitals, nursing homes,        |
|    |  |                           | clinics, cafeteria etc.                       |
| 18 | M.A. Political Science                   | POL-M-204                 | CO1: provides knowledge and skill             |
|    |  | Research Methods in       | required for research in the field of         |
| 10 | 15.4 (71.11)                             | Political Science         | Political Science                             |
| 19 | M.A.( Philosophy)                        | 201                       | CO1: provides knowledge required for          |
|    |  | Human Rights and Feminism | research in the field of gender and           |
|    |  | remmsm                    | human rights CO2: sensitizes students towards |
|    |  |                           | iniquities,                                   |
| 20 | M.A. English                             | 403                       | CO1: receive input on language                |
| 20 | W.A. English                             | Linguistics and           | teaching                                      |
|    |  | Language teaching         | CO2:gain insight into the scientific          |
|    |  |                           | approach to language                          |
|    |  |                           | CO3: develop understanding of the             |
|    |  |                           | relation between literature and society       |
|    |  |                           |   |
| 21 | M.A.(Urdu)                               | 304                       | CO1:students gain knowledge and               |
|    |  | Bihar ka Adbi             | regarding the role of Bihar in the            |
|    |  | Dabistan                  | development of Urdu language and              |
|    |  |                           | literature and                                |
|    |  |                           | CO2: students receive necessary skill in      |
| 22 | 36 4 (0 1 12)                            | 202                       | documenting local Urdu literature.            |
| 22 | M.A. (Sanskrit)                          | 202                       | CO1: gain knowledge required for              |
|    |  | Indian Philosophy         | research in the field of philosophy and       |
|    |  | and Grammar               | grammar                                       |
| 23 | M.A. Hindi                               | 403                       | CO1: receive skills in Hindi journalism       |
| 23 | 1, | Patrakaarita evam jan     | COT. Tecetive skins in Timor journalism       |
|    |  | sanchaar                  |   |
|    | Master in Journalism and                 | EC-1                      | CO1: equips students with required            |
|    | Mass                                     | Rural and                 | skill and knowledge for promotion of          |
|    | Communication(MJMC)                      | Environment and           | rural and environment related issues in       |
|    | , , ,                                    | Journalism                | journalism.                                   |
| 24 | M.A.( Bengali)                           | 204                       | CO1: gain knowledge regarding                 |

|    |  | Bihar o Jharkhander<br>Bangla Sahitya                          | regional Bengali literature<br>CO2: are sensitized towards research in<br>this area   |
|----|--|--|---|
| 25 | M.A.( Maithili)                              | Mai(401)<br>Anuvad Vigyan aa<br>Paschatya Aalochana<br>Sidhant | CO1: gain knowledge of translation<br>CO2: receive skill in translating<br>Maithili texts   |
| 26 | M.A. Arabi                                   | 201<br>Functional Arabic                                       | CO1: receive information and skill for<br>employment in various organisations<br>involving Arabic as an international<br>language   |
| 27 | M.A.( Persian)                               | 303<br>Grammar, Prosody<br>and Translation                     | CO1: students are equipped with knowledge of bilingual translation involving Persian  |
| 28 | M.A. (Music)                                 | CC10<br>Aesthetic &Folk<br>Music                               | CO1:receive knowledge of folk songs, folk instruments and folk poets. skill CO2: receive knowledge and skill for working in the field of Music therapy CO3: receive skill for employment in multi-media industry, music critic, programme anchor, advertizing industry and cultural wing of government departments.   |
|    | P.G. Diploma in Industrial Safety Management | CC-4 Safety Management & Organisation                          | CO1: provide the basic knowledge and understanding of the subject CO2: application, research in business as well as social organization CO3: to improve the skill areas of communication, training and motivation in safety CO4: to improve the skill areas of communication, training and motivation in safety CO5: help both safety managers and potential safety managers develop good behaviour skills CO6: explore academic, develop professionalism |

|    |                        |                    | industrial world.                       |
|----|------------------------|--------------------|---|
| 29 | PG Diploma in Clinical | CC-6               | CO1: students obtain advanced           |
|    | Psychology             | Social and         | understanding of relevant concepts,     |
|    |                        | Community          | issues and methods in social and        |
|    |                        | Psychology         | community psychology                    |
|    |                        |                    | CO2: receive skill to apply the same in |
|    |                        |                    | social and institutional frameworks.    |
| 30 | PG Diploma in Women's  | WS-M-201           | CO1: expands the understanding of       |
|    | Studies                | Violence Against   | the issues involved                     |
|    |                        | Women & Declining  | CO2: encourages research in the         |
|    |                        | Sex Ratio          | concerned areas                         |
|    |                        |                    |   |
|    | P G Diploma in Public  | Paper-IV           | CO1: provides knowledge and             |
|    | Administration         | Social             | awareness in the field of family        |
|    |                        | Administration and | planning and population education       |
|    |                        | Public Finanace    | CO2: provides information about sex-    |
|    |                        |                    | ratio and knowledge of Public Finance   |
|    |                        |                    | CO3: develops awareness of issues       |
|    |                        |                    | related toAIDS, including prevention    |
|    |                        |                    | CO4: develops capacity for              |
|    |                        |                    | employment in the area of Public and    |
|    |                        |                    | Private Administration                  |
|    |                        |                    |   |
|    |                        |                    |   |