# BA in ECONOMICS

**Course Outcomes**

It is a course focused on the core fundamentals of Economics, its theories and applications. It covers both qualitative and quantitative courses in Economics like Microeconomics, Macroeconomics, Economic Statistics, History of Economics, Indian Economy, etc.

**After completion of BA Program students should be able to……**
1. The Course is designed for the students pursuing graduation with Economics in regular mode.
2. The programme aims to inculcate economic thinking among the students in economic decision making by comprehending economic theory.
3. It aims to develop analytical view point in the students about the economic behaviour of people.
4. The objective is to nurture among student a view point of a socially responsible and ethical aware citizen.

**SPECIFIC OUTCOMES**
On completion of BA (ECONOMICS) students are able to:
1. Serve as an economist.
2. Work as a teacher in colleges, schools.
3. Serve as policy makers and budget analysts.
4. Can admit to MA Economics, Civil Servants, Economical Services, etc.
5. Work in NGOs.
6. Can prepare for competitive exams.
7. Pursue MBA in Finance and Banking or an M.A in finance or a Chartered Financial Analystcertification after graduating.
8. Work in Finance and Banking Sector.
9. Work as a consultant or an Economic advisor for firms and corporates.

**Detail of courses introduced in BA Program.**
1. Micro Economics
2. Macro Economics
3. Elementary Quantitative Methods.
4. Public Finance
5. Indian Economy
6. Economic Growth and International Trade

**Program outcomes**:
Students have an understanding of:-

1. Behavioural patterns of different economic agents, advance theoretical issues and their applications.
2. Basic concept of monetary analysis and financial marketing in Indian financial markets.
3. Measurement of development with the help of theories along with the conceptual issues of poverty and inequalities with Indian perspectives
4. Basic concept of microeconomics.
5. Basic concepts of Macroeconomics.
6. Basic statistical methods to be applied in economics.
7. Basic mathematical methods to be applied in economics.
8. Development issues of Indian economy.
9. Some basic concept of environmental economics along with the solution of the environmental problems.
10. The students are familiar about issues of ethics in economic thinking and practice.

## MA in ECONOMICS

**Course Outcomes**

A master's degree in Economics is a two-year full-time course. This course contains topics like economic theory, history of economics, econometrics, macroeconomics, microeconomics, mathematics for economists, economics research methods, corporate finance, development economics, economic policy, international economics and mathematical methods for economic analysis. It offers advanced knowledge in the field of Economics with an elaborate knowledge base.

**After completion of MA Program students should be able to understand:-**
1. Behavioural patterns of different economic agents, advance theoretical issues and their applications.
2. Basic concept of monetary analysis and financial marketing in Indian financial markets.
3. Measurement of development with the help of theories along with the conceptual issues of poverty and inequalities with Indian perspectives
4. Basic concept of microeconomics.
5. Basic concepts of Macroeconomics.
6. Basic statistical methods to be applied in economics.
7. Basic mathematical methods to be applied in economics.
8. Development issues of Indian economy.
9. Some basic concept of environmental economics along with the solution of the environmental problems.
10. The students are familiar about issues of ethics in economic thinking and practice.

**SPECIFIC OUTCOMES**
Postgraduates of Economics can work as the following:-
1. Economists
2. Accountants
3. Public Policy Analysts
4. Budget Analysts
5. Financial Managers

6. Market Researchers
7. risk Analysts
8. Investment Analysts
9. Economic Researchers
10. Economics Teachers/Professors
11. Data Scientists
12. Health Insurance Analysts
13. Statisticians
14. Work in NGOs.

15. Can prepare for competitive exams, etc.

**Detail of courses introduced in BA Program.**
1. Micro Economics
2. Macro Economics
3. Quantitative Methods
4. Economics of Education and Health **or** Agricultural Economics **or** Labour Economics **or**
   Economics of Infrastructure **or** Research Methodology
5. Economics of Growth and Development
6. Econometrics **or** **G**ender Economics **or** Industrial Economics and Entrepreneurship **or**
   Economics of Insurance SE. Computer Applications in Economics
7. Public Economics
8. International Economics
9. Financial Institutions and Markets
10. Indian Economy
11. Demography
12. Environmental Economics

**Program outcomes**:
MA Economics is one of the most in-demand fields in the global economy. Besides the vast career scope, this degree also equips aspirants with advanced skills that are transferable to various other fields and enhance one's professional portfolio to a great extent. Following are the skills that you will gain after completing the Master's degree in Economics:-
1. Clear understanding of the national and global economy along with various economic practices, principles, and theories.
2. Knowledge about various economic fields.
3. Skills to analyse global economic issues and finding effective solutions for them.
4. Mastering several economic tools, techniques, and models for the enhancement of the overall economy.
5. Strong analytical, numerical, and problem-solving skills
6. Management and entrepreneurship skills
7. Effective communication, leadership, and team management skills

A Master of Economics degree enables students to learn how to apply economic principles and theories to real-life situations. This degree hones your analytical skills and guides you to utilize your expertise to come up with innovative solutions to a range of problems along with knowledge on various econometric techniques and software. Given the broad scope of scenarios to which such a skill-set can apply, a Master of Economics degree is rapidly becoming a popular choice for those pursuing graduate studies, alongside courses such as Finance, Accounting, and Management. So, if you want to establish a winning career in finance and economics, seeking MA Economics is the best career option for you.

**Department of Sociology**
**SMP Govt. Girls PG College, Madhav Puram, Meerut**
**B.A (Sociology)**
**Programme Outcomes (POs)**

1. **Knowledge & critical thinking**: - To develop sociological knowledge and skills that will enable critical thinking in students about social issues. To develop sociological understanding of the phenomena.

2. **Communication Skills: -** To develop communication skills and intercultural ability in students. To develop better written and oral communication skills. They will be able to understand complex techniques and apply them in various real-life situations.

3. **Ethics & Leadership: -** Articulate and apply ethics, values and ideals that demonstrate awareness of current societal challenges. Build skills to work as part of a team and lead others, setting directions and formulating inspiring vision.

4. **Self- directed and Lifelong Learning**: - Sociology provides an intellectual background for students considering careers in business, social services, public policy, government service, nongovernmental organizations, foundations, or academia.

5. **Specialization and Employability: -** Develop deeper understanding, creativity, and originality, analytical and critical skills in chosen specialized areas of social science disciplines leading to employability. Enhance the ability to integrate as well as synthesize the acquired knowledge within the social sciences and beyond.

6. **Opportunities: -** This program lays foundation for further study in sociology, social work, social welfare, rural development and in other allied subjects.

**Program Specific Outcomes (PSOs)**

A-132: Students will able to understand the nature of sociology, basic concepts, institutions and the use of Sociology.

A-133: To get acquaint with the structure and composition of Indian Society, Cultural and ethnic diversity, Basic institutions of Indian Society and culture.

A-232: Students can analyze emerging Social issues and problems form sociological perspective. The issues and problems have been classified into four sets: structural, familial development and organizational.

A-233: To Understand Social Change, Theories of Social Change, other concepts to social change and Social Control.

A- 332: To get acquaint the evolution of sociology and contributions of founding fathers of sociology.

A- 333: Students can understand social research, steps of social research, research design, techniques used in social research and analysis of data.

**Course Outcomes**
Major areas that will be covered under UG (Sociology) programme year wise-

1. **Introduction to Sociology**: - Introduction to Sociology, Society in India, Social change and social control, Indian society issues and problems, foundation of sociological thoughts and social research methods.
2. **Foundation of Sociological thoughts:-** Students would be able to gain Knowledge about the emergence and development of sociology, pioneers of the subjects like Auguste Compte, Herbert Spancer, Emile Durkheim, Max Weber and Karl Marx and important theories and concepts given by them.
3. **Methods of Social Research: -** Students will understand the meaning, scope and importance of social research, techniques of data collection, meaning and significance of status and measures of central tendency.

**Department of Sociology**
**SMP Govt. Girls PG College, Madhav Puram, Meerut**
**M.A (Sociology)**
**Programme Objectives**

1. The Post Graduation program in sociology is redesigned with a view to develop skills among students to understand different types of societies and group by acquiring knowledge of theories, concepts and methods of research.
2. The students will be encouraged to discuss possibilities of applying their knowledge to a variety of situations and undertaking exercise of their own.

**Programme Outcomes (POs)**

1. **Knowledge & critical thinking**: - Demonstrate knowledge of historical emergence, and distinctive contributions of the social science disciplines to the analysis of human behavior and social issues. Critically analyze everyday problems faced by the society, evaluate specific policy proposals, and compare arguments with different conclusions to specific societal issues.
2. **Research Related Skill: -** With the study of sociology the students are able to understand a plan of research including conceptualization of the problem, review of literature, and design of a research study and identification of methods for exploring the problem.
3. **Scientific Enquiry: -** Develop the capability of defining problems, formulate hypothesis, collect relevant data, develop empirical evidence and interpret the results of such analyses. Develop the ability to work independently as well as effectively in the changing environment.
4. **Ethics & Leadership: -** Articulate and apply ethics, values and ideals that demonstrate awareness of current societal challenges. Build skills to work as part of a team and lead others, setting directions and formulating inspiring vision.
5. **Specialization and Employability: -** Develop deeper understanding, creativity, and originality, analytical and critical skills in chosen specialized areas of social science disciplines leading to

employability. Enhance the ability to integrate as well as synthesize the acquired knowledge within the social sciences and beyond.

6. **Opportunities: -** This program lays foundation for further study in sociology, social work, social welfare, rural development and in other allied subjects.

## Course Outcomes

1. **Methodology of Social Research: -** Students will able to understand the meaning, scope and importance of social research, steps and types of social research, social survey, ethics about social research techniques of data collection etc.
2. **Basics Statistics and Computer Application in Social Research**:- Students will able to learn about techniques used in social science disciplines along with ICT, software's etc.

**Sociology course outcomes for students**
1. Students will be able to understand and demonstrate the analysis, how controversial public issues arise in Indian Society such as racism, class, gender, sexuality and other social groups.
2. The students can develop skills that are useful in their everyday life such as:
   - Leadership
   -Communication
   - Problem solving skills
   - Cultural Understanding
   - Recognize ethical issues
3. The scope of sociology for students is vast. The areas where students get employment are as follows:
   - NGOs
   - International Organizations
   - Urban and Regional planning bodies
   - Administrative Services
   - Teaching in schools/ Universities
   - Programme Officers

   ### BA with Political Science
   **Course Outcomes**
   **After completion of BA Program students should be able to……**
   1 Students enable to develop academic proficiency in the subfield of understanding Political Science, Colonialism in India and constitutional Democracy, Comparative Government and politics, International Politics, Political theory, Political Thought, Political ideologies.

2 Student enable to develop and able to demonstrate skills in conducting as well as presenting research in political science.

3 Students enable to analyze political and policy problems and formulate policy options.

4 Students enable to discuss the major theories and concepts of political science and its subfields, and also deliver thoughtful and well articulated presentation of research findings.

## SPECIFIC OUTCOMES

On completion of BA (POLITICAL SCIENCE) students are able to:

1. Serve as a politician.

2. Work as a teacher in colleges, schools.

3. Serve as political party member, political advisor, and well citizen of India.

4. Can admit to MA Political Science, LLB, MSW.

5. Work in NGOs.

6. Can prepare for competitive exams.

Detail of courses introduced in BA Program.

1 Introduction to Political Theory

2. Indian govt. and politics.

3. Comparative govt. and politics.

4. Introduction to International Relation.

5. Legislative support.

6. Public Opinion & Survey Research.

7. Themes in comparative political theory

8. Democratic awareness with legal literacy

9. Understanding Globalization

10. Conflict and peace building

**Program outcomes**:

Students enable to develop their academic proficiency. They can find out major scope in academic and non academic arena from the career point of view, the students have a scope in govt. as well as private sectors. Political organizations or govt. sectors like public administration and law. Teaching and lecturing on Political science is another work opportunity.

**S.M.P. Government Girls P.G. College Meerut**

**Department of Zoology**

**Course outcomes**

**B.Sc Biology**

Bachelor of Science (B.Sc. Biology) is one of the most popular academic degree courses among science students after class 12th. After the completion B.Sc. Biology degree, students are recruited directly by big MNCs. They can also get jobs opportunities in various public sectors as well as private sector undertakings. Except above students gets Career Opportunities in higher Studies, BiologicalTechnicial, Ecologist, Botanist, Geneticist, Molecular Biologist, Forest Ranger, Farming Consultant, etc.

**M.Sc Zoology**

After the completion of this course, students have the option to go for the highest studies, Ph.D., and then do research work for the welfare of mankind. After higher studies, students can join as scientists or assistant professors, or assistant teachers and can even look for professional job-oriented courses, such as Indian Civil Services, Indian Forest Service, Indian Police Service, etc. Science graduates can go to serve in industries or may opt for establishing their own industrial unit. Practical and theoretical skills gained in this program will be helpful in designing different public health strategies for social welfare.

**B.Sc. (Mathematics)**

**Programme Outcome**

1. Enabling students to develop a positive attitude towards mathematics as an interesting and valuable subject of study.
2. A student should get a relational understanding of mathematical concepts and concerned structures, and should be able to follow the patterns involved, mathematical reasoning.
3. Ability to analyze a problem, identify and define the computing requirements, which may be appropriate to its solution.
4. Introduction to various courses like group theory, ring theory, field theory, metric spaces, number theory.
5. Enhancing students' overall development and to equip them with mathematical modelling abilities, problem solving skills, creative talent and power of communication necessary for various kinds of employment.
6. Ability to pursue advanced studies and research in pure and applied mathematical science.

**Programme Specific Outcome**

1. Think in a critical manner.
2. Know when there is a need for information, to be able to identify, locate, evaluate, and effectively use that information for the issue or problem at hand.
3. Formulate and develop mathematical arguments in a logical manner.
4. Acquire good knowledge and understanding in advanced areas of mathematics and statistics, chosen by the student from the given courses.
5. Understand, formulate and use quantitative models arising in social science, Business and other contexts.

**Detail of courses introduced in B.Sc. Program.**
1. Differential and Integral Calculus
2. **Matrices and Differential Equations & Geometry**
3. **Linear Algebra and Matrices**
4. **Differential Equations**
5. **Mechanics**
6. **Analysis**
7. **Linear Programming Problems**
8. **Numerical Analysis and Computer Methods**

**Program outcomes**:
1. To verify the value of the limit of a function at a point using the definition of the limit. Introduction to sequence and series.  Learn to check function is continuous, to understand the consequences of the intermediate value theorem for continuous functions. To learn software.  To solve the problems on algebra and calculus by using software. Knowledge of application of mathematics
2. Introduction to analytical geometry of 2 dimensional.  Study of lines in 2 and 3 dimension. Finding equation in various form of line, circle, ellipse, sphere, cones etc. Give the knowledge of geometry using software. Student will be to understand differentiation and fundamental theorem in differentiation and various rules.  Geometrical representation and problem solving on MVT and Rolls theorem.  Finding extreme values of function. Introduction to Ordinary Differential Equation.
3. Introduction to vector space and subspace.  Use computational techniques and algebraic skills essential for the study of systems of Linear equations, matrix algebra, vector spaces, eigenvalues and eigenvectors, Orthogonality and Diagonalization. (Computational and Algebraic Skills). Course Title: - MT-222 Numerical Analysis Course Outcome.  To apply appropriate numerical methods to solve the problem with most accuracy. Using appropriate numerical methods determine approximate solution of ODE and system of linear equation.  Compare different methods in numerical analysis w.r.t accuracy and efficiency of solution

## B.Sc. and M.Sc. (Mathematics)

**Programme Outcome**

7. Enabling students to develop a positive attitude towards mathematics as an interesting and valuable subject of study.
8. A student should get a relational understanding of mathematical concepts and concerned structures, and should be able to follow the patterns involved, mathematical reasoning.
9. Ability to analyze a problem, identify and define the computing requirements, which may be appropriate to its solution.
10. Introduction to various courses like group theory, ring theory, field theory, metric spaces, number theory.
11. Enhancing students' overall development and to equip them with mathematical modelling abilities, problem solving skills, creative talent and power of communication necessary for various kinds of employment.
12. Ability to pursue advanced studies and research in pure and applied mathematical science.

**Programme Specific Outcome**

6. Think in a critical manner.
7. Know when there is a need for information, to be able to identify, locate, evaluate, and effectively use that information for the issue or problem at hand.
8. Formulate and develop mathematical arguments in a logical manner.
9. Acquire good knowledge and understanding in advanced areas of mathematics and statistics, chosen by the student from the given courses.
10. Understand, formulate and use quantitative models arising in social science, Business and other contexts.

**Detail of courses introduced in B.Sc. Program.**
9. Differential and Integral Calculus
10. Matrices and Differential Equations & Geometry
11. Linear Algebra and Matrices
12. Differential Equations
13. Mechanics
14. Analysis
15. Linear Programming Problems
16. Numerical Analysis and Computer Methods

**Detail of courses introduced in M.Sc. Program.**
1. Algebra
2. Real analysis

3. Differential equations
4. Metric Spaces
5. Topology
6. Measure and Integration
7. Discrete Mathematics
8. Operation Research
9. Numerical Analysis
10. Complex Analysis
11. Lattice Theory
12. Mathematical Methods
13. Functional Analysis
14. Differential Geometry
15. Number Theory
16. Fluid Dynamics

**Program outcomes**:

4. To verify the value of the limit of a function at a point using the definition of the limit. Introduction to sequence and series. Learn to check function is continuous, to understand the consequences of the intermediate value theorem for continuous functions. To learn software. To solve the problems on algebra and calculus by using software. Knowledge of application of mathematics

5. Introduction to analytical geometry of 2 dimensional. Study of lines in 2 and 3 dimension. Finding equation in various form of line, circle, ellipse, sphere, cones etc. Give the knowledge of geometry using software. Student will be to understand differentiation and fundamental theorem in differentiation and various rules. Geometrical representation and problem solving on MVT and Rolls theorem. Finding extreme values of function. Introduction to Ordinary Differential Equation.

6. Introduction to vector space and subspace. Use computational techniques and algebraic skills essential for the study of systems of Linear equations, matrix algebra, vector spaces, eigenvalues and eigenvectors, Orthogonality and Diagonalization. (Computational and Algebraic Skills). Course Title: - MT-222 Numerical Analysis Course Outcome. To apply appropriate numerical methods to solve the problem with most accuracy. Using appropriate numerical methods determine approximate solution of ODE and system of linear equation. Compare different methods in numerical analysis w.r.t accuracy and efficiency of solution.

7. To understand logical concepts and to show logical equivalences by using truth tables and rules in logics. Learn concept related to counting. Introduction to advanced counting.

8. To apply appropriate numerical methods to solve the problem with most accuracy. Using appropriate numerical methods determine approximate solution of ODE and system of linear equation. Compare different methods in numerical analysis w.r.t accuracy and efficiency of solution.

9. Able to understand the Euclidean distance function on R n and appreciate its properties, and state and use the Triangle and Reverse Triangle Inequalities for the Euclidean distance function on R n. Explain the definition of continuity for functions from R n to R m and determine whether a given function from R n to R m is continuous. To explain the geometric meaning of each of the metric space. Distinguish between open and closed balls in a metric space Define convergence for sequences in a metric space and to determine whether a given sequence in a metric space converges.

10. Understand the importance of algebraic properties with regard to working within various number systems. Extend group structure to finite permutation groups (Caley Hamilton Theorem).

11. Student will be able to solve first order differential equations utilizing the standard techniques for separable, exact, linear, homogeneous, or Bernoulli cases. Student will be able to find the complete solution of a nonhomogeneous differential equation as a linear combination of the complementary function and a particular solution. Student will have a working knowledge of basic application problems described by second order linear differential equations with constant coefficients.

12. Find quotients and remainders from integer division. To apply Euclid's algorithm and backwards substitution. Understand the definitions of congruence, residue classes and least residues add and subtract integers, modulo n, multiply integers and calculate powers, modulo n. To determine multiplicative inverses, modulo n and use to solve linear congruence. Theory of quadratic residue

13. Develop linear programming (LP) models for shortest path, maximum flow, minimal spanning tree, critical path, minimum cost flow, and transshipment problems. Understand the mathematical tools that are needed to solve optimization problems.● Formulate pure, mixed, and binary integer programming models.● Formulate the nonlinear programming models.● Use some solution methods for solving the nonlinear optimization problems.●

14. Understand the basic methods of complex integration and its application in contour integration. · Analyze sequences and series of analytic functions and types of convergence, · Evaluate complex contour integrals directly and by the fundamental theorem, apply the Cauchy integral theorem in its various versions, and the Cauchy integral formula.

# PROGRAMME OUTCOMES FOR B.ED. (2-YEARS)

## COURSE OUTCOMES:

After successful completion of the two-year B.Ed. programme, pupil teachers will be able to develop…….

1.Teaching competency: Know, select and use of learner-cantered teaching methods, understanding of paradigm shift in conceptualizing disciplinary knowledge in school curriculum, necessary competencies for organizing learning experiences, select and use of appropriate assessment strategies for facilitating learning.

2. Pedagogical skills: Applying teaching skills and dealing with classroom problems.

3. Teaching through Non-conventional Modes: Evolving a system of education which enhances the potential of every learner to acquire, retain and transform knowledge leading to wisdom society through creative, experiential and joyful modes of learning.

4. Critical Thinking: Analysis of Curriculum, construction of blue print, selecting appropriate teaching strategies according to needs of students and conducting action research to solve classroom problems.

5. Effective Communication: Presenting seminar before peer students and teachers and practicing communication skills through various linguistic activities and applying it for better classroom communication.

6. Sensitivity towards Inclusion: Identifying the diversities and dealing it in inclusive classrooms environment, guidance and counselling programmes for disabled students.

7. Effective Citizen Ethics: Understand different values, morality, and social service and accept responsibility for the society.

8. Self-directed Learning: Preparing lesson plans, micro plans, project and online content.

9. Social Resilience: Understand about social entities and enable to cope up with adverse conditions of life.

10. Physical Development: Practice yoga, physical education and games and sports

11. Team Work: Enable to work as a member or leader in diverse teams and in multidisciplinary settings by following the principles of collaborative learning, cooperative learning and team teaching.

**<u>SPECIFIC OUTCOMES :</u>**

On completion of two-year B.Ed. programme students will be able to:

1. Understand basic concepts and ideas of educational theory.

2. Enable to understand learner and his/her learning environment, contemporary India and education, school management, gender, school and society.

3. Enable to comprehend Language across the curriculum, Reading and reflecting on Texts, Drama and Art in Education, developing Communication Skills and observation of school activities by school internship.

4. Enable to understand the individual differences among students, measuring the attainment, evaluating progress, and assessing learning abilities, guidance and counseling programmes, educational technology, ICT and lesson planning.

5. Practice teaching in Schools, inculcate the real experiences of classroom teaching and online teaching by using ICT and its different tools and software.

6. Understand the classroom diversities and enable them to deal with diverse learners in inclusive classroom setup, environmental education, Field Engagements with community.

7. Build understanding and perspective on the nature of the learner, diversity and learning.

8. Comprehend the role of the systems of governance and structural – functional provisions that support school education.

9. Develop understanding about teaching, pedagogy, school management and community involvement.

10. Build skills and abilities of communication, reflection, art, aesthetics, theatre, self expression and ICT.

## PROGRAM OUTCOMES:

Students enable to develop their academic proficiency. They can find out major scope in academic and non academic arena from the career point of view, the students will have a scope in govt. as well as private sectors. They can serve as a good teacher. They can prepare for competitive exams as well as they can also work as a teacher in colleges, schools. They will get offered a teaching job as a permanent, temporary, part-time or full-time as per your interest. With B.Ed degree they can work in Schools, Education Department, Coaching Centres, Education consultancies, home and private tuitions, etc. Apart from teaching in schools, they can open their own coaching institutions where they can provide tuitions to the students. So that they can improve their teaching skills and knowledge as well as enable to earn more. They can also work as academic content writers or academic counsellors.

## DETAIL OF COURSES INTRODUCED IN B.ED. (2-YEARS) PROGRAM:

The present B.Ed. course for two year programme is designed on the current guidelines of NCTE, NCERT, UGC and MHRD with the view to make the student-teachers reflective practitioners. The programme is comprised of three broad inter-related curricular areas :-

Group (A) : Perspectives in Education : Core Courses (CC)

Group (B) : Curriculum and Pedagogy : Pedagogy Courses (PC)

Group (C) : Experiences for Enhancing Professional Capacities (EPC)

Transaction of the courses is done using a variety of approaches, such as tasks and assignments, projects, group discussion, seminar, interactions with community in multiple sociocultural environments, etc.

## GROUP (A): PERSPECTIVES IN EDUCATION - CORE COURSES (CC)

These courses are intended to provide a conceptural understanding of relevant concepts and processes in teacher education and also situate them in the broader perspective of education and development.

| CLASS | Group (A) : Perspectives in Education : Core Courses (CC) |
|---|---|
| B.Ed. I | CC1: (Contemporary India & Education) |
| B.Ed. I | Cc2: (Philosophical And Sociological Perspectives Of Education) |
| B.Ed. I | Cc3: (Growing Up As A Learner) |
| B.Ed. I | Cc4: (Teacher Teaching And Technology) |
| B.Ed. II | Cc5: (Creating An Inclusive School) |
| B.Ed. II | Cc6: (Gender School And Society) |
| B.Ed. II | Cc7: (Knowledge Language And Curriculum) |
| B.Ed. II | Cc8: (Work Education Gandhiji Nai Talim And Community Engagement) |

**GROUP (B): CURRICULUM AND PEDAGOGY - PEDAGOGY COURSES (PC)**

These courses pertain mainly to help student-teachers become effective teachers. For this, it offers the student-teachers not only reorganize one's previous understanding of one's subject of specialization but also the pedagogy as the integration of knowledge about the learner, the discipline and the societal context of learning, so that they may try out evolving a few learning situations and carry them out both in simulated as well as real situations.

| CLASS | GROUP (B): CURRICULUM AND PEDAGOGY - PEDAGOGY COURSES (PC) |
|---|---|
| B.Ed. I | **PC1**: (Pedagogy Of School Subject I) |
| B.Ed. I | **PC 2** : (Pedagogy Of School Subject II) |
| B.Ed. II | **PC3:** (Assessment For Learning) |
| B.Ed. II | **PC4**: OPTIONAL SUBJECTS: Select any one |
| B.Ed. I | **PC5:** Preparation To Function As A Teacher (Teaching Skill including Lesson Planning, Micro Teaching, Simulation Teaching And Macro Teaching Or Teaching Practice)/ E-701 |
| B.Ed. II | **PC6:** School Internship/ E-703 |

**GROUP(C): EXPERIENCES FOR ENHANCING PROFESSIONAL CAPACITIES (EPC)**

Apart from conceptual and practical learning gained through Core Courses (CC) and Pedagogy Courses (PC), student-teachers need to develop professional competencies and to experience the fact that the teacher is much more than someone who teaches a subject. The teacher is potentially a participant in the wider education system and he/she may play not only a proactive role in the community life of the school but also as an agent of social development and social transformation. It includes a number of experiences that will enhance the capacity of student teachers in six essential dimensions

| CLASS | Experiences For Enhancing Professional Capacities) EPC/ E-702 & E-704 |
|---|---|
| B.Ed. I | EPC1: Strengthening Language Proficiency )/ **E-702** |
| B.Ed. I | EPC 2: (Art & Aesthetic)/ **E-702** |
| B.Ed. I | EPC 3: (Reading & Reflecting on Text) / **E-702** |
| B.Ed. II | EPC 4: (Understanding Of ICT)/ **E-704** |
| B.Ed. II | EPC 5 (Scouting And Guiding) / **E-704** |
| B.Ed. II | EPC 6: (Working With Community)/ **E-704** |
| B.Ed. I | Task & Assignment (from CC 1 -4 and PC1& PC2) |
| B.Ed. II | Task & Assignment (from CC 5-8 and PC3 & PC4) |

**B.Sc with Physics**
**Course Outcomes**
**Physics is a fascinating subject, admired by Astronomers, Mathematicians and even Philosophers for centuries. B.Sc. Physics is one of the most pursued science stream courses after class XII. This program prepares students for industry ready roles. To build a strong career in this field pursuing a master's degree is a viable option**
**SPECIFIC OUTCOMES**
On completion of B.Sc. (Physics) students are able to:
1. work as space scientist.
2. technician.
3. radiologist.
4. lab supervise.
5. Geologist.
6. join research program in ISRO.
7. able to Join in BARC
Detail of courses introduced in B.Sc. Program.

1 mechanics and wave motion
2. kinetic theory and thermodynamics.
3. circuit fundamental and basic electronics.
4. physical optics and lasers.
5. elements of quantum mechanics atomic and Molecular spectra.
6. relativity and statistical physics.
7. solid state and nuclear physics
8. solid state electronics.
9. electromagnetic theory.

**Program outcomes**:

There is an array of academic programs offered in the disciplines of physics, from diploma to degree courses. In major courses after B.Sc. students can opt for master's degree program or certificate courses. Career option after B.Sc. physics PG diploma in Data science, astronomy, nanotechnology, OTT, learning/artificial intelligence. M.Sc. in physics, biophysics, molecular physics, optical physics, nanotechnology, astrophysics etc.

**M.Sc. Physics**

| S.N. | Course code | Name of Paper | Course outcome |
|------|-------------|---------------|----------------|
| 1 | H-1027 | **Mathematical physics** | The students will have understanding of: Basic and advanced mathematical tools required for Physics ProblemsDifferent Techniques to solve differential and integral equations Various special functions and important transforms and their applications |
| 2 | H-1028 | **Classical Mechanics** | The students will have understanding of: Idea and concepts in classical physics Basic concepts in Variational principle and Principle of Least ActionsDerivations, necessity and applications of Lagrangian and Hamiltonian formulations Central force problems, theory of small oscillations and its applications |
| 3 | H-1029 | **Quantum Mechanics** | The students will have understanding ofDifference between classical and quantum mechanical theory and approach. Linear Vector Space, operators and tools to calculate eigen values. Various techniques to solve time dependent and time independent Schrodinger equations using different coordinate systems |

| | | | |
|---|---|---|---|
| | | | |
| 4 | H-1030 | **Electronic Devices** | The students will have understanding of: Characteristics and applications of PN junction diodes. Characteristics of different transistors, and different biasing operations, and their applications. Operational Amplifier characteristics, its applications.Different types of transducers, impedancematching, filtering etc. |
| 5 | H-527 | **Practical** | The students will have practical understanding of the characteristics of various diodes, transistors, Op-Amp, designing concepts of logic gates and digital circuits. They will also be trained in basic elements and measurement using multimeters and utilization of CRO. |
| 6 | H-2027 | **Quantum Mechanics-II** | Students will have understanding of:Importance of relativistic quantum mechanics compared to nonrelativistic quantum mechanics.Various tools to understand field quantization and related concepts.Exposure to quantum field theory and universal interactions. |
| 7 | H-2028 | **Statistical Physics** | The students will understand different types of ensembles, relation between statistics and thermodynamics, quantum statistics and other related phenomena |
| 8 | H-2029 | **Atomic & Molecular Physics** | The students will understand: Fine structure of hydrogen, effects of spin-orbit interaction, atomic spectra. Effects of magnetic field in the atomic spectra, principle of ESR and NMR. Rotational, vibrational, electronic and Raman Spectra of molecules. Basic working Principle of Laser |
| 9 | H-2030 | **Electrodynamics and Plasma Physics** | The students will understand the difference between static and dynamical systems. Maxwell's equations and timevarying fields. Gauges in electrodynamics, retarded potentials and its applications. Radiation from time varying source, charged particle dynamics and relativistic electrodynamics |
| 10 | H-627 | **Practical** | The students will gain practical knowledge in utilizing different types of Interferometers for various uses, practical handling of Lasers and their applications. |
| 11 | H-3027 | **Condensed Matter Physics** | The students will understand free electron bands in solids, imperfections in crystals, propagation of electromagnetic waves in solid |
| 12 | H-7027 | **Special paper I Electronics** | Students are expected to perform & learn through real-time data by using Practical set ups such as Amplifiers, Flip Flops, Multiplexers etc. |
| 13 | H-7030 | **Special paper II Electronics** | Students are expected to learn AM, FM and Fiber-Optic Modulation Techniques utilized in electronic and Fiber-optic communication systems. |

| 14 | H-3028 | **Nuclear and Particle Physics** | The students will understand Basic properties of nucleus, its structure and different models that explain the behavior and characteristics. Bound state of deuteron by scattering theory. Types of nuclear reactions and conservation laws, reaction mechanisms. Basic particle physics, conservation laws C, P, T invariance and relativistic kinematics |
|----|--------|------|------|
| 15 | H-7027 | **Practical** | The students will gain practical knowledge about FM,AM,Flip flop, digital communication etc. |
| 16 | H-4028 | **Physics of Nano materials** | The students will understand the nanostructure of materials quantum size effect, characterization technique of nanomaterials, synthesis of nanomaterials and CNT. |
| 17 | H-8027 | **Special paper III Electronics** | The students will understand the digital communication, digital modulation technique, satellite communication etc. |
| 18 | H-8030 | **Special paper IV Electronics** | The students will understand the ICs, Thin films, photolithography, etc. |
| 19 | H-4027 | **Computational Physics** | Students are expected to perform & learn computation of data by using different numerical methods, solving boundary value problem and solving with Fourier transform, solution of ODE and PDE |
| 20 | H-8027 | **Practical** | The students will gain practical knowledge about ICs, thin films, numerical analysis etc. |

**Program Outcomes:**

**1**.Understand and apply basic principles of physics, and basic interaction laws that govern our universe

**2**.Have knowledge and experience in different techniques of optical spectroscopy including the instrumentations and interpretation of the spectra in IR, Raman, Electronic Absorption and Fluorescence spectroscopy.

**3**.Learn advanced computing methods required for basic sciences as well as industrial

**4**.Understand the basic differences in classical and quantum mechanical approach, their realm and applicability in a certain domain

**5**.Understand the nature of a nucleus, nuclear reaction mechanism, nuclear models and its usefulness in power generation and for medical sciences

**6**.Have advanced ideas and techniques required in frontier areas of Physics, and develop human resource with specialization in theoretical and experimental techniques required for career in academia and industry

**BACHELOR AND MASTER IN PHYSICAL EDUCATION**

## COURSE OUTCOME

- After completion of this course students will be able to learn and deliver knowledge about the various Anatomical and Physiological parameters of human body. The learning of growth and development pattern will enable them to apply the various principles on the sports skill development of the athlete.
- Understanding of history of yoga, ashtanga yoga, physical education and sports effectively know about and apply yoga in everyday life of each individual for further research and development.
- Successful completion of this course will help students to learn about health, different aspects of health, health education, principles of health education, epidemic and community health services.
- This course will initiate learning about sports injuries, cure and their treatment, various diagnostic procedures and the role of physiotherauptic applications for the management and Rehabilitation of the injury.
- On completion of this course students will have practical knowledge and experience to perform various sports, Track and Field activities such as jumps, throws, running events, starts and finishes, etc. Sports like indoor and outdoor sports i.e. Badminton, Table Tennis, Kabaddi, Yoga, Kho-Kho etc.
- The postgraduate course enables students to learn about various research methods parametric, non- parametric, measures of central tendency, measures of variability etc. Also they will learn about various teaching methods, Use of ICT and computer applications in special reference to sports.

## PROGRAM OUTCOME

- Students enable to develop their academic and professional proficiency. The students will be able to join B.P.Ed., Teacher training course in the field of physical education. They can also join higher education courses for further academic enhancement.
- The students will be able to work as independent fitness expert, yoga trainer or gym trainer etc.
- Students will be enable to find out scope in academic and non academic fields. They can also work for sports NGO, sports organization, sports warehouse, industrial units, sports garments business etc.

# चौधरी चरण सिंह विश्वविद्यालय, मेरठ
## CH. CHARAN SINGH UNIVERSITY, MEERUT

पत्रांक : शैक्षणिक/2313
दिनांक : 27.10.2021

### कार्यालय आदेश

विद्वत परिषद की बैठक दिनांक 20.09.2021 में मद संख्या 05 के सापेक्ष पारित संकल्पानुसार राष्ट्रीय शिक्षा नीति–2020 के अन्तर्गत निम्न तालिकानुसार कौशल विकास कोर्सो (Vocational/Skill Development Courses) को सम्बन्धित पाठ्यक्रमों के संकायाध्यक्षों के अनुमोदनोंपरान्त नियमानुसार विश्वविद्यालय से सम्बद्ध समस्त महाविद्यालयों/संस्थानों एवं विश्वविद्यालय परिसर हेतु अनुमोदन प्रदान किया जाता है।

| S.No | Name of Vocational/Skill Development Courses |
|------|---------------------------------------------|
| 1 | Communication Skill and Personality Development |
| 2 | Heritage Guide |
| 3 | News Writing and Reporting |
| 4 | Sports Engineering |
| 5 | Certificate Course in Organic Farming |
| 6 | Skill Development Course in Retail Management |
| 7 | Folk Art |

कुलसचिव

प्रतिलिपि निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित :–
1. सचिव कुलपति, मा0 कुलपति जी के सूचनार्थ प्रेषित।
2. आशुलिपिक प्रतिकुलपति, प्रतिकुलपति जी के संज्ञानार्थ प्रेषित।
3. आशुलिपिक कुलसचिव, कुलसचिव जी के अवलोकनार्थ प्रेषित।
4. सहा0 कुलसचिव, परीक्षा विभाग को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।
5. समस्त विभागाध्यक्ष, चौ0 चरण सिंह विश्वविद्यालय, मेरठ को सूचनार्थ प्रेषित।
6. प्रवेश समन्वयक, चौ0 चरण सिंह विश्वविद्यालय, मेरठ को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।
7. समन्वयक, राष्ट्रीय शिक्षा नीति–2020 को सूचनार्थ प्रेषित
8. प्राचार्या, शहीद मंगल पाण्डे राजकीय महाविद्यालय, माधवपुरम, मेरठ।
9. प्रभारी, कमैटी सैल को सूचनार्थ प्रेषित।
10. प्रभारी, सीक्रेसी को सूचनार्थ प्रेषित।

कुलसचिव

पत्रांक: 475/2021-22                                दिनांक 04-09-21

सेवा में,

प्रति कुलपति
चौधरी चरण सिंह विश्वविद्यालय,
मेरठ।

विषय:– राष्ट्रीय शिक्षा नीति–2020 के अन्तर्गत कौशल विकास कोर्स (Vocational/Skill development Courses) का पाठ्यक्रम अनुमोदित कराने के सम्बंध में।

महोदया,

उपर्युक्त विषयक के सम्बंध में इस महाविद्यालय के प्राध्यापकों द्वारा पाठ्यक्रम तैयार किये गये है। जिनका विवरण निम्न तालिका के अनुसार है:–

| S.No | Name of (Vocational/Skill development Courses) | Details of Teachers |
|------|-----------------------------------------------|---------------------|
| 01 | Communication skills and Personality Development | Dr. Moniika Chaudhary |
| 02 | Heritage Guide | Dr. Anita Goswami |
| 03 | News Writing and Reporting | Dr. Lata Kumar |
| 04 | Sports Engineering | Dr. Poonam Bhandari |
| 05 | Certificate Course in Organic Farming | Dr. Satya Pal Singh Rana |
| 06 | Skill Development Course in Retail Management | Dr. Rakesh Kumar |
| 07 | Folk Art | Dr . Ravinder Kumar |

महोदया महाविद्यालय के प्राध्यापकों द्वारा तैयार किये गये उपरोक्त कौशल विकास कोर्सों के पाठ्यक्रमों को विश्वविद्यालय की बोर्ड ऑफ स्टडीज, विद्वत परिषद् इत्यादि में अनुमोदित करवाने का कष्ट करें। जिससे कि राष्ट्रीय शिक्षा नीति–2020 के अन्तर्गत महाविद्यालय कौशल विकास कोर्स का चयन कर सकें। उक्त पाठ्यक्रमों की परीक्षा विश्वविद्यालय द्वारा नियमानुसार आयोजित होगी।

सलंग्नक–उपरोक्त कोर्स पाठ्यक्रम के साथ संलग्न।

भवदीया

(डा0 लता कुमार)
प्राचार्य
शहीद मंगल पाण्डे राजकीय महिला स्नातकोत्तर
महाविद्यालय, मेरठ

# Shaheed Mangal Pandey Govt. Girl P.G. College, Meerut
## Format for syllabus development of
## Skill development course

| Title of course- | Communication Skills and Personality Development |
|---|---|
| Nodal Department of HEI to run course | SMP Government Girls PG College , Meerut |
| Broad Area/Sector- | English |
| Sub Sector- | Communication skill & Personality development |
| Nature of course - Independent / Progressive | Independent |
| Name of suggestive Sector Skill Council | - |
| Aliened NSQF level | - |
| Expected fees of the course –Free/Paid | 1000/- |
| Stipend to student expected from industry | - |
| Number of Seats-.............. | 20 |
| Course Code-............... | Credits- 03 (1 Theory, 2 Practical) |
| Max Marks...100...... Minimum Marks......40... | 100/40 |
| Name of proposed skill Partner (Please specify, Name of industry, company etc for Practical /training/ internship/OJT | Amatya, Career Launcher NIIT, VLCC |
| Job prospects-Expected Fields of Occupation where student will be able to get job after completing this course in (Please specify name/type of industry, company etc.) | This course will be helpful for  students to face job interviews in effective way |

## Syllabus

| Unit | Topics | General/ Skill component | Theory/ Practical/ OJT/ Internship/ Training | No of theory hours (Total-15 Hours=1 credit) | No of skill Hours (Total-60 Hours=2 credits) |
|---|---|---|---|---|---|
| I | **Introduction**<br>• Definition of communication<br>• Process of communication<br>• Importance of communication<br>• Essentials of good communication | General | Theory | 2 | 0 |
| II | **Different forms of communication**<br>• Verbal communication<br>• Non-verbal communication<br>• Intrapersonal communication<br>• Interpersonal communication<br>• Mass communication<br>• Media communication | General & Skill | Theory & Practical | 2 | 5 |
| III | **Developing English language skills**<br>• Listening skill<br>• Speaking skill<br>• Reading skill<br>• Writing skill | Skill | Theory & Practical | 3 | 8 |
| IV | **Personality Development**<br>• The concept of personality<br>• Dimensions of personality<br>• Determinants of personality | General & Skill | Theory & Online Training | 4 | 10 |
| V | **Attitude and Motivation**<br>• Concept of Attitude<br>• Positive Attitude | Skill | Theory and Practical | 2 | 9 |

| | | | | | |
|---|---|---|---|---|---|
| | • Negative Attitude<br>• Ways to develop a positive attitude<br>• Concept of Motivation<br>• Importance of self- motivation | | | | |
| VI | **Essential soft skills**<br>• Group discussion<br>• Presentation skills<br>• Problem-solving<br>• Decision- making<br>• Team work<br>• Innovation<br>• Creative thinking<br>• Time- management | **Skill** | **Theory and Internship** | **2** | **28** |

Suggested Readings: (1) Mohan, Krishna and MeeraBanerji, Developing Communication Skills, New Delhi: Macmillan India Ltd, 1990.

(2) Lata, Pushp and Sanjay Kumar, Communicate to Conquer : A Handbook of Group Discussions and Interviews, New Delhi: PHI Learning, 2010.

(3) Haney, W. V. Communication and Interpersonal Relation. New York: Richard Irwin, 1979.

(4) Cloninger S. C., Theories of Personality: Understanding Person, Pearson, New York, 2008.

(5) Rizvi, M. Ashraf , Effective Technical Communication, New Delhi: Tata McGraw- Hill, 2005.

Suggested Digital platforms/ web links for reading- https://thefluentlife.com/online/gsearch/?source=Fluent%20Life%20Online%20GS&gclid=EAIaIQobChMIupfc3K7i8gIV_5pmAh0HHQXhEAAYASAAEgKNoPD_BwE

Suggested OJT/ Internship/ Training/ Skill partner : Amatya, Career Launcher NIIT, VLCC

Suggested Continuous Evaluation Methods: Question Papers are designed for theory assessment, Presentation and practical.

Course Pre-requisites:
• No pre-requisite required, Passed XII
• To study this course, a student must have the subject English. in class/12th/ certificate/diploma
• If progressive, to study this course a student must have passed previous courses of this series.

Suggested equivalent online courses:

Any remarks/ suggestions:

Notes:
• Number of units in Theory/Practical may vary as per need
• Total credits/semester-3 (it can be more credits, but students will get only 3credit/ semester or 6credits/ year
• Credits for Theory =01 (Teaching Hours = 15)
• Credits for Internship/OJT/Training/Practical = 02 (Training Hours = 60)

Course developed by

Dr Monika Chaudhary
HOD/Associate Professor
Department of English
S M P Govt. Girls P. G College, Meerut

Format for syllabus development of
Skill development course

Course- HERITAGE GUIDE

| Department of HEI to run course | SMP Government Girls PG College , Meerut |
|---|---|
| Area/Sector- | HISTORY |
| Sector- | TOURISM |
| Nature of course - Independent / Progressive | INDEPENDENT |
| Name of suggestive Sector Skill Council | TRAVEL AND TOURISM |
| Aliened NSQF level | 4 |
| Expected fees of the course –Free/Paid | 1000 |
| Stipend to student expected from industry | 1000(EXPECTED) |
| Number of Seats-............ | 30 |
| Course Code-............ | Credits- 03 (1 Theory, 2 Practical) |
| Max Marks...100..... Minimum Marks......... | 100/40 |
| Name of proposed skill Partner (Please specify, Name of industry, company etc for Practical /training/ internship/OJT | THOMAS COOK, CLUB MAHINDRA ,COOCKS AND KINGS , MAKE MY TRIP |
| Job prospects-Expected Fields of Occupation where student will be able to get job after completing this course in (Please specify name/type of industry, company etc.) | THE SKILL COURSE IN HERITAGE GUIDE WILL PROVIDE OPPORTUNITY TO THE CANDIDATES TO SERVE THE NATION AND ITS CITIZENS IN A MUCH BETTR WAY . IN FACT THEY CAN RUN THEIR OWN TOUR AND TRAVEL AGENCY AND CAN PROVIDE SREVICES ONLINE ALSO. |

Syllabus

| Unit | Topics | General/ Skill component | Theory/ Practical/ OJT/ Internship/ Training | No of theory hours (Total-15 Hours=1 credit) | No of skill Hours (Total-60 Hours=2 credits) |
|---|---|---|---|---|---|
| I | Unit 1: Introduction Tourism products meaning, characteristics, classification Heritage: meaning, types, heritage sites of India Historic monuments of tourist significance: forts, palaces, museums, art galleries | General | Theory | 2 | 0 |
| II | Performing art of India: classical dances, folk dances and folk culture Handicrafts and textiles of eastern India Fairs and Festivals of India | General &Skill | Theory & Practical | 2 | 5 |
| III | Unit II: Architecture & religion Architectural Heritage of India Popular religious centers of India: Hindu, Buddhist, Jain, Muslim and Christian | Skill | Theory & Practical | 3 | 8 |
| IV | Islands and beaches Deserts and Hill stations Protected areas: Wildlife sanctuaries, national parks | General & Skill | Theory & Online Training | 4 | 10 |
| V | Definitions and historical development of tourism Types of tourist-Visitor-Excursionist Types and Forms of Tourism Tourism system: Nature, characteristic Tourism: Components and Characteristics | Skill | Theory and Practical | 2 | 9 |
| VI | Positive and Negative Impacts of Tourism; Economic, Socio-Cultural, and Environmental Impact | Skill | Theory and Internship | 2 | 28 |

Suggested Readings:Suggested Readings:
1. Travel Industry: Chunk Y. Gee
2. Transport for Tourism: Stephen Page
3. Tourism System: Mill, R.C. and Morrison
4. Successful Tourism Management: P.N. Seth
5. Ministry of Tourism/Railways/Civil Aviation: Annual Report
6. Ministry of heritage and culture1. Ecotourism: Impacts Potentials, and Possibilities-Stephen Wearing and John Neil.
7. Sustainable Tourism – Wahab Salah and John Pigram.
8. Eco-tourism – Fennel.
9. Sustainable tourism –A marketing perspective- Victor C. Middleton & H. Rebecca.
10. Trends in tourism promotion: emerging issues - S. C Bagri.
11. Tourism in the Himalaya in the context of Darjeeling and Sikkim – B. Bhattacharya.
12. The Wonder that was India: A.L. Basham
13. A Cultural History of India: A.L. Basham
14. India - Lonely Planet:
15. India - Plan your own holiday: S. Jagannathan

H.K. Kaul

...a: S. Punja

...cient India: S. Huntington

...itecture: Percy Brown

...ested Digital platforms/ web links for reading-http://www.tax.org/notes/default.htm www.ugc.ac.in, www.ignou.ac.in, www.clubmahindra.in, www.incredibleindia.in.

Suggested OJT/ Internship/ Training/ Skill partner : clubmahindra , Thomas cook office , ihm, ichr.

Suggested Continuous Evaluation Methods: TEST QUIZ , PRESENTATION , PRACTICAL

Course Pre-requisites:

- No pre-requisite required, Passed XII with any stream
- To study this course, a student at least have the subject NA class/12$^{th}$/ certificate/diploma
- If progressive, to study this course a student must have passed previous courses of this series.

Suggested equivalent online courses:

Any remarks/ suggestions:

Notes:

- Number of units in Theory/Practical may vary as per need
- Total credits/semester-3 (it can be more credits, but students will get only 3credit/ semester or 6credits/ year
- Credits for Theory =01 (Teaching Hours = 15)
- Credits for Internship/OJT/Training/Practical = 02 (Training Hours = 60)

NODAL OFFICER – DR ANITA GOSWAMI,
HOD, HISTORY
SMP GOVERNMENT PG COLLEGE MEERUT

NODAL DEPARTMENT:-HISTORY DEPARTMENT
DR ANITA GOSWAMI
DR RAJKUMAR SINGH

# Format for syllabus development of
# Skill development course

## Title of course- News Writing & Reporting

| | |
|---|---|
| Nodal Department of HEI to run course | Shaheed Mangal Pandey Govt. Girls PG College, Meerut |
| Broad Area/Sector- | Media and Entertainment |
| Sub Sector- | Hindi |
| Nature of course - Independent / Progressive | Progressive |
| Name of suggestive Sector Skill Council | Media and News paper |
| Aliened NSQF level | 04 |
| Expected fees of the course – Free/Paid | 500/- |
| Stipend to student expected from industry | As per term of industry or company |
| Number of Seats-............ | As per university norms/NEP 2020 |
| Course Code-............ | Credits- 03 (1 Theory, 2 Practical) |
| Max Marks...100...... Minimum Marks........ | 40 |
| Name of proposed skill Partner (Please specify, Name of industry, company etc for Practical /training/ internship/OJT | Dainik Bhaskar digital and Dainik Jagran |
| Job prospects-Expected Fields of Occupation where student will be able to get job after completing this course in (Please specify name/type of industry, company etc.) | After successful completion of this course, there are many jobs opportunities in print and digital media sector. |

## Syllabus

| Unit | Topics | General/ Skill component | Theory/ Practical/ OJT/ Internship/ Training | No of theory hours (Total-15 Hours=1 credit) | No of skill Hours (Total-60 Hours=2 credits) |
|---|---|---|---|---|---|
| I | **Introduction** <br> • Essential of good writing <br> • ABCD/Basic of News Writing (Accuracy, Brevity, Clarity, Discernment) <br> • News definition concept, meaning and elements <br> • News values | General | Theory | 2 | 0 |
| II | **Techniques of News Writing** <br> • News elements <br> • Types of News <br> • News Sources <br> • Attribution in news writing <br> • Steps & elements of writing for Print : editorial, features & review <br> • Techniques of re-writing | General &Skill | Theory & Practical | 3 | 5 |
| III | **Principles of Reporting** <br> • The significance of reporting <br> • News reporting and its types <br> • Different types of leads & Headlines <br> • Pitfalls and problems in reporting <br> • Qualities of a good reporter | Skill | Theory & Practical | 2 | 5 |
| IV | **Writing for news paper** <br> • Editing features into a news story. <br> • Headlines writing exercises based on newspaper published stories. <br> • Writing caption/changing caption of the selected cartoons and photos. | General & Skill | Theory & Online Training | 4 | 10 |

| | | | | | |
|---|---|---|---|---|---|
| | • Write two editorials.<br>• Finding out facts/opinion /hearsay in at least five stories published in newspapers.<br>• Writing Formats - News- Features – Interview- Editorial – Column – Travelogue and other<br>• News follow-ups | | | | |
| V | **Reporting for Newspaper**<br>• Reading of newspapers in the class particularly the front page and the local news pages.<br>• Prepare questions for a specific interview.<br>• Rewriting news stories from newspapers converting them for magazine<br>• Filing report on the basis of mock press conferences.<br>• Filing report after attending one press conference after going to the field. | Skill | Theory and Practical | 2 | 10 |
| VI | **Types of Reporting**<br>• The meaning and significance of 'Beat Reporting'<br>• Write short notes on: Crime, courts, health, civil administration, civic, culture, politics and education beats in Reporting. | Skill | Theory and Internship | 2 | 30 |

Suggested Readings:
Samachar Lekhan avam reporting – Dr Ashok Kumar
Patrkarita : Ek Parichay – Sandip Kumar Shrivastav
Samchar Lekhan – P.K. Arya
Samachar Patra avam Patrakarita -sachchidaanand Shukla
Advance Reporting Aur Editing – Dr. Anjni Kumar Jha
Patkatha Lekhan – Avneendra Jha

Suggested Digital platforms/ web links for reading- http://www.ignouhelp.in/ignou-majmc-study-material/

Suggested OJT/ Internship/ Training/ Skill partner – Dainik Bhaskar digital and Dainik jagran

Suggested Continuous Evaluation Methods: Question Papers are designed for theory assessment and Skill partner will design the for the skill evaluation of the students.

Course Pre-requisites:
• No pre-requisite required, Passed XII with any stream
• To study this course, a student must have passed class 12th.
• If progressive, to study this course a student must have passed previous courses of this series.

Suggested equivalent online courses:

Any remarks/ suggestions:

Notes:
• Number of units in Theory/Practical may vary as per need
• Total credits/semester-3 (it can be more credits, but students will get only 3credit/ semester or 6credits/ year
• Credits for Theory =01 (Teaching Hours = 15)
• Credits for Internship/OJT/Training/Practical = 02 (Training Hours = 60)

Course Develop by

Dr. Lata Kumar
Dr. Swarnlata Kadam

# PROPOSED SYLLABUS FOR SKILL DEVELOPMENT COURSE

| Title of the course | SPORTS ENGINEERING |
|---|---|
| Nodal Department of HEI to run the course | SMPGGPGC, MEERUT |
| Broad area/ sector | Sports |
| Sub- Sector | Sports Engineering |
| Nature of Course( Independent/ Progressive) | Independent |
| Name of suggestive sector skill | Manufacturing and maintenance of sports equipment and facilities |
| Aliened NSQF Level | 4 |
| Expected fees of the course(Free/Paid) | 1000 |
| Stipend to students expected from Industry | 1000 |
| Number of seats | 30 |
| Course code | Credits 03( 01 Theory, 02 Practical) |
| Max. Marks....100...Min. Marks.... | 100/40 |
| Name of Proposed Skill Partner( Please specify name of the industry, company etc. for practical /training/internship/OJT | VAIBHAV SPORTS, MANUFACTURERS AND SUPPLIERS, SURAJ KUND ROAD, MEERUT |
| Job prospects- expected fields of occupation where students will be able to get job after completing this course(Please specify name , type of industry, company etc.) | Students after completing this course may get jobs in sports equipment manufacturing units, sports stadiums , gymnasiums,  grounds and at sports wholesaler and retail outlets. |

## SYLLABUS

| UNIT | TOPICS | GENERAL/SKILL COMPONENT | T/ P/ I/ TRNG./ OJT | NO. OF THEORY HOURS(TOTAL 15 HRS= 01 CREDIT) | NO. OF SKILL HOURS(TOTAL 60 HOURS=02 CREDITS) |
|---|---|---|---|---|---|
| 1 | Introduction to sports engineering:Meaning, definition, Human Motion, Human Performance, Assessment, Equipment and Facility designing. Sports Dynamics : Newton's laws of motion, work , energy, impulse and momentum. | General | THEORY | 02 | - |
| 2 | Mechanics of Engineering Materials: Concept of internal force, Axial force, shear force, displacement. Biomechanics of daily activities: Gait, Posture, Body Levers, lifting, walking, running, throwing, jumping, pulling, pushing etc. ergonomics | General & Skill | Theory & Practical | 04 | 04 |
| 3 | Sports Dynamics: Kinematics of motion: Rectilinear and curvilinear motion system, Mechanical principles of sports dynamics. Dynamic Correspondence : Factors, Importance and Training | General | Theory | 03 | - |
| 4 | Facility Life Cycle Costing: Basics of costing , Total life cost concepy, maintenance cost, energy cost, capital cost and taxation.Maintenance policy, preventive maintenance, corrective maintenance , record and register for maintenance. | General & Skill | Theory & Internship | 02 | 10 |
| 5 | Building and maintenance: Sports Infrastructure, gymnasium, pavilion, swimming pool, indoor and outdoor stadium, play park, sports hostel etc. Requirements: Air ventilation, Daylight, lighting arrangements, galleries, storerooms, wastewater disposal system, changing rooms(f/m), sound system, corridoors and gates, emergency provisions,fire and | General &Skill | Theory & Internship | 02 | 20 |

# PROPOSED SYLLABUS FOR SKILL DEVELOPMENT COURSE

| | exits,finamcial considerations etc. | | | | |
|---|---|---|---|---|---|
| 6 | Sports Engineering module: Basics of Production technology, mechanical methods of testing, fluid mechanics, instrumentation, winter sports and summer sports equipment. **PROJECT REPORT** | Skill | Theory, Practical & Internsh ip | 02 | 26 |

Suggested Readings:

1. Steve Hake, editor,The engineering of sports, CRC Press,1996
2. Franz K.F.et. al., Editor, Routledge handbook of sports technologyand engineering, 2013
3. Colin white, Projectile dynamics in sports: Principles and Applications, 2019

Suggested Digital Platforms/ web links: https://www.sportsengineering.org
https://www.sportstechnology.com
https://mme.wsu.edu

Suggested continuous evaluation method: Test, Project, Practical

Course pre-requisite: Class XII with any stream.

Suggested equivalent online course: Various foreign and Indian Universities( Institute of sports science & technology, Pune.

Notes:No. Of units, theory, Practical may vary as per need.

**Department of Physical Education**

Dr. Poonam Bhandari

Dr. Bharti Sharma

Dr. Jitendra Kumar Baliyan

# Shaheed Mangal Pandey Govt. Girls P.G. College, Meerut
## Format for syllabus development of
## Skill development course

| | |
|---|---|
| Title of course- **Certificate Course in Organic Farming** | |
| Nodal Department of HEI to run course | SMP Government Girls PG College , Meerut |
| Broad Area/Sector- | Life Science |
| Sub Sector- | Botany/Zoology |
| Nature of course - Independent / Progressive | INDEPENDENT |
| Name of suggestive Sector Skill Council | ASCI |
| Aliened NSQF level | ...... |
| Expected fees of the course – Free | ...... |
| Stipend to student expected from industry | ----- |
| Number of Seats-............. | 20 |
| Course Code-.............. | Credits- 03 (1 Theory, 2 Practical) |
| Max Marks...100...... Minimum Marks.........40 | 100/40 |
| Name of proposed skill Partner (Please specify, Name of industry, company etc for Practical /training/ internship/OJT | SVBPA University Meerut And As Per The availability of Course requirement |
| Job prospects-Expected Fields of Occupation where student will be able to get job after completing this course in (Please specify name/type of industry, company etc.) | After successful Completion of this skill development course. The students will get opportunity to make the career in developing kitchen gardens, organic fertilizers, vermicompost and other private fields like development of organic food etc . |

## Syllabus

| Unit | Topics | General/ Skill component | Theory/ Practical/ OJT/ Internship/ Training | No of theory hours (Total-15 Hours=1 credit) | No of skill Hours (Total-60 Hours=2 credits) |
|---|---|---|---|---|---|
| I | Unit I: <br> **ORGANIC FARMING** <br> Introduction <br> Concept and Principles of Organic Farming <br> Benefits of Organic Farming <br> Social aspects of Organic Farming <br> Market aspects of Organic Farming | General | Theory | 2 | 0 |
| II | Unit II: <br> **ORGANIC FERTILIZERS** <br> Introduction <br> Need of Organic Fertilizer <br> Benefits of Organic Fertilizer <br> Preparation of Organic Fertilizer <br> Demonstration & land preparation | General &Skill | Theory & Practical | 2 | 10 |
| III | Unit III: <br> **USE OF MICROORGANISMS IN ORGANIC FARMING** <br> Introduction <br> Need of Microorganisms in soil fertility <br> Benefits of Microorganisms in organic farming | Skill | Theory | 4 | |
| IV | Unit IV: | General | Theory & | 2 | 10 |

| | | & Skill | Online Training | | |
|---|---|---|---|---|---|
| | **ATER AND SOIL TESTING** Different Methods of Water and Soil Testing | | | | |
| | **Unit V** Methods of increasing soil Fertility Use of cow dung Green Manure Crop rotation Use of vermicompost and preparation of vermicompost Biocontrol and Management of Phytopathgens | Skill | Theory and Practical | 3 | 10 |
| VI | **FIELD DEMONSTRATION** Feedback & discussion valedictory function | Skill | Theory and Internship | 2 | 30 |

Suggested Readings: Suggested Readings:
1. Principles of Organic Farming by P.L. Maliwal publication of Scientific Publishers
2. Organic Fertilizers From Basic Concepts to Applied Outcomes Edited by Marcelo L. Larramendy
3. Basics of Organic Farming By Bansal M. by CBS Publisher and Distributors Pvt. Ltd.
4. Textbook of Soil Science-T. Biswas & S Mukherjee
5. Practical Botany (Part 2) ISBN #:81-301-0008-8 Sunil D Purohit, Gotam K Kukda & Anamika Singhvi Edition:2013 Apex Publishing House Durga Nursery Road, Udaipur, Rajasthan (bilingual)
6. ICAR (2015) Soil Health Card, Ministry of Agriculture and Farmers Welfare, Govt. of India
7. Plant Pathology by B.P. Pandey, S. Chand Publication New Delhi

Suggested Digital platforms/web links for reading-
https://ndl.iitkgp.ac.in/result?q={%22t%22:%22search%22,%22k%22:%22horticulture%22,%22s%22:[],%22b%22:{%22filters%22:[]}}, http://heecontent.upsdc.gov.in/,

Suggested OJT/ Internship/ Training/ Skill partner : SVBPA University Meerut

Suggested Continuous Evaluation Methods: TEST QUIZ , PRESENTATION , PRACTICAL

Course Pre-requisites:
- No pre-requisite required, Passed XII with any stream
- To study this course, a student at least have the subject NA class/12th/ certificate/diploma

Suggested equivalent online courses: https://www.onlinestudies.com/Courses/Horticulture/

Any remarks/ suggestions:

Notes:
- Number of units in Theory/Practical may vary as per need
- Total credits/semester-3 (it can be more credits, but students will get only 3credit/ semester or 6credits/ year
- Credits for Theory =01 (Teaching Hours = 15)
- Credits for Internship/OJT/Training/Practical = 02 (Training Hours = 60)

NODAL OFFICER – DR Satyapal Singh Rana,
HOD, Zoology
NODAL DEPARTMENT:-Department of Zoology/Botany
Dr Satyapal Singh Rana
Dr. Kumkum
Dr. Narendra Kumar
Dr. Vaibhav Sharma
Dr. Sushil Kumar
Dr. Arvind Kumar
SMP Government PG College Meerut

# naheed Mnagal Pandey Government Girls PG College, Meerut
## Proposed Skill Development Course

| | |
|---|---|
| tle of course- | **Skill Development course in Retail Management** |
| Nodal Department of HEI to run course | SMP Government Girls PG College , Meerut |
| Broad Area/Sector- | Commerce |
| Sub Sector- | Marketing Management |
| Nature of course - Independent / Progressive | Independent |
| Name of suggestive Sector Skill Council | RASCI |
| Aliened NSQF level | ------ |
| Expected fees of the course –Free/Paid | As per University /NEP 2020 Norms |
| Stipend to student expected from industry | As per terms of related retailer |
| Number of Seats-............ | As per University /NEP 2020 Norms |
| Course Code-.............. | Credits- 03 (1 Theory, 2 Practical) |
| Max Marks...100...... Minimum Marks......... | 40 |
| Name of proposed skill Partner (Please specify, Name of industry, company etc for Practical /training/ internship/OJT | As per the availability of Retail counters established by organized/unorganized players in NCR. |
| Job prospects-Expected Fields of Occupation where student will be able to get job after completing this course in (Please specify name/type of industry, company etc.) | After successful completion of this course, there are many jobs opportunities in retail sector. |

## Syllabus

| Unit | Topics | General/ Skill Component | Theory/ Practical/ OJT/ Internship/ Training | No of theory hours (Total-15 Hours=1 credit) | No of skill Hours (Total-60 Hours=2 credits) |
|---|---|---|---|---|---|
| I | **Introduction to Retail**<br>• Concept of retail<br>• Functions of retail<br>• Retail as a career<br>• Retail formats and its types<br>• Retailing Channels<br>• Retail Industry in India<br>• Importance of retail<br>• Changing trends in retailing | General | Theory | 2 | 0 |
| II | **Understanding the Retail Consumer**<br>• Retail consumer behavior<br>• Factors influencing the Retail consumer<br>• Customer decision making process<br>• Types of decision making<br>• Market research for understanding retail consume<br>• Case study related to customer decision making | General & Skill | Theory and Practical | 2 | 5 |
| III | **Retail Marketing Strategy**<br>• Definition of Retail strategy<br>• Strategy for effective market segmentation<br>• Strategies for penetration of new markets<br>• Growth strategies<br>• Retail value chain<br>• Case study related to market segmentation | Skill | Theory and Practical | 3 | 8 |
| IV | **Merchandise Management**<br>• Meaning of Merchandising<br>• Factors influencing Merchandising<br>• Functions of Merchandising Manager<br>• Merchandise planning<br>• Merchandise buying<br>• Analyzing Merchandise performance.<br>• Practical problems related to merchandise | General & Skill | Theory And Online Training | 4 | 10 |

| | | | | | |
|---|---|---|---|---|---|
| | Management VIZ EOQ, TIC, Minimum Level, Safety Stock, Reorder level, Maximum Level and rational of discount of Bulk purchase | | | | |
| | **Retail Location Selection**<br>• Importance of Retail locations<br>• Types of retail locations<br>• Factors determining the location decision<br>• Steps involved in choosing a retail locations<br>• Measurement of success of location<br>• Case study related to retail location selection | Skill | Theory and Practical | 2 | 9 |
| VI | **Real Life Exposure in Retail Sector**<br>• Internship at Retail counter established by organized/ unorganized players in NCR | Skill | Theory and Internship | 2 | 28 |

**Suggested Readings:**

Barry Berman, Joel R Evans- Retail Management; A Strategic Approach

Dravid Gilbert- Retail Marketing

J. Lamba- The Art of Retailing

Swapana Pradhan- Retailing Management

Suggested Digital platforms/ web links for reading- https://www.ibef.org

Suggested OJT/ Internship/ Training/ Skill partner Retail counter of locally established organised/unorganized players

Suggested Continuous Evaluation Methods: Question Papers are designed for theory assessment and Skill partner will design the for the skill evaluation of the students.

Course Pre-requisites:

- No pre-requisite required, Passed XII with Commerce
- To study this course, a student must have the subject Commerce. in class/12th/ certificate/diploma
- If progressive, to study this course a student must have passed previous courses of this series.

Suggested equivalent online courses:

Any remarks/ suggestions:

Notes:

- Number of units in Theory/Practical may vary as per need
- Total credits/semester-3 (it can be more credits, but students will get only 3credit/ semester or 6credits/ year
- Credits for Theory =01 (Teaching Hours = 15)
- Credits for Internship/OJT/Training/Practical = 02 (Training Hours = 60)

Course developed by:-
Dr Rakesh Kumar
Dr Vikas Kumar
Dr Avesh Kumar

# Format for syllabus development of
# Skill development course

| | | |
|---|---|---|
| urse- | लोक कला | |
| epartment of HEI to run course | Fine Art | |
| Area/Sector- | Drawing & Painting | |
| Sector- | | |
| Nature of course - Independent / Progressive | Independent | |
| Name of suggestive Sector Skill Council | -- | |
| Aliened NSQF level | -------- | |
| Expected fees of the course –Free/Paid | As per university/NEP2020 norms | |
| Stipend to student expected from industry | ------- | |
| Number of Seats-............. | As per university/NEP2020 norms | |
| Course Code-............. | Credits- 03 (1 Theory, 2 Practical) | |
| Max Marks...100...... Minimum Marks........ | 40 | |
| Name of proposed skill Partner (Please specify, Name of industry, company etc for Practical /training/ internship/OJT | Other institutions of similar nature. | |
| Job prospects-Expected Fields of Occupation where student will be able to get job after completing this course in (Please specify name/type of industry, company etc.) | After completion this certificate course students may be in the position that they can earn their livelihood by making handicrafts at their own. | |

## Syllabus

| Unit | Topics | General/ Skill component | Theory/ Practical/ OJT/ Internship/ Training | No of theory hours (Total-15 Hours=1 credit) | No of skill Hours (Total-60 Hours=2 credits) |
|---|---|---|---|---|---|
| I | लोक कला की परिभाषा एवं अर्थ | General | Theory | 01 | - |
| II | लोक कलाकार | General | Theory | 01 | - |
| III | लोक कला के रूप (रंगोली, मांडने, सांझी, अल्पना, अहिपन, अरिपन, सथिया) | Skill | Theory & Practical | 03 | 15 |
| IV | लोक कला प्रतीक (ज्योमितीय आकृति ओम, स्वास्तिक, बेलबूटे | General & Skill | Theory & Practical | 03 | 15 |
| V | लोक कला सामग्री (खनिज रंग–कोयला, आटा, हल्दी, गेरू, नील) | General & Skill | Theory & Practical | 02 | 12 |
| VI | लोक कला व धर्म (लोकाचारिक, मान्यताएं, लोक देवी–देवता) | General | Theory & Practical | 03 | 10 |
| VII | समकालीन कला में लोक तत्व | General & Skill | Theory & Practical | 02 | 08 |

**Suggested Readings:**

**Suggested Digital platforms/ web links for reading**

**Suggested OJT/ Internship/ Training/ Skill partner**

**Suggested Continuous Evaluation Methods:** Question Papers are designed for theory assessment and Skill partner will design for the skill evaluation of the students.

...isites:

-requisite required, Passed XII.

ogressive, to study this course a student must have passed previous courses of this series.

gested equivalent online courses:

ny remarks/ suggestions:

Notes:

- Number of units in Theory/Practical may vary as per need
- Total credits/semester-3 (it can be more credits, but students will get only 3credit/ semester or 6 credits/ year
- Credits for Theory =01 (Teaching Hours = 15)
- Credits for Internship/OJT/Training/Practical = 02 (Training Hours = 60)

DR. RAVINDER KUMA
Assistant Professor
Drawing & Painting