(Affiliated to Kurukshetra University, Kurukshetra)

Certificate Course

Course Name: - Principle and Working of Instruments used in Physics Laboratory and their utility in daily life.

Module - 1

Part -1 :- Electrical Circuit Components: - Resistors, Capacitor, Inductors, Galvanometers, Ammeter, Voltmeter, Rheostat, Multi meter, Alternating Currents, Direct Current, Transformer, Colour Code of Resistance.

Part-2: - Fitting tools, Single Phase, Three Phase connections, Series ad parallel connections, Earthing and soldering. (10 Periods)

Module – 2

Part – 1: - Principle and working of electronic devices – Semi Conductor diodes, Zener Diode, Solar Cell, Photocell, Transistors, Resonant Circuits, CRO.

Part – 2: - Practical's. (08 Periods)

Module -3

Basic Measuring Instruments and their uses.

Part – 1: - Vernier Calipers, Screw Gauge, Spherometer, Magnetic Compass, Spirit Level, Barometer.

Part – 2: - Measurement of small lengths, Diameter of wires, Radius Curvature of lenses. (05 Period)

Module -4

Meaning and working of Optical Instruments

Part -1: - Different type of lenses, Telescope, Microscope, Spectrometer, Na Lamp, Hg Lamp, Laser and application.

Part -2: - Lab. Work (07 Period)

Assignments: -

Two Assignments will be given to the students.

Test: - Test will be conducted in the last.

Outcome of the course: - After completing this course students will be able to design and handle various lab instruments manufactured by various scientific industries.

(Affiliated to Kurukshetra University, Kurukshetra)

Certificate Course

Course Name: - Basic electrician skills in wiring and electrical domestic appliances.

Module - 1

Part -1:- Occupational safety and Health

- 1) Laboratory layout, Safety Introduction, First Aid, Hazard Identification and Avoidance, Warning, Cautions, Fire Extinguishers.
- 2) Basic Knowledge of Tools and Symbols.

(04 Periods)

Module – 2

Part – 1: - PVC wires and cables of different gauges and their uses.

Part – 2: - Soldering.

(05 Periods)

Module -3

Part – 1: - AC / DC wiring, Polarity of AC / DC supply, Single Phase wiring, Three Phase wiring and their Comparison.

Part – 2: - Earthing (Importance and different methods of Earthing), Fuse (05 Period)

Module -4

Part -1: - Colour code of Resistance, Identification of Active / Passive Components, Waters, Magers.

Part -2: - Use of Multimeter to measure current, Voltage and resistance. (07 Period)

Module -5

Part -1: - Identify resistors, Capacitors, Diodes Transistors, PNP and NPN transistors.

Part -2: - Cathode Ray Oscilloscope (CRO)

(07 Period)

Module -6

Applications: - Electric Bell, Transformer, electric Fuse, MCB, Series and Parallel Connections, Heater, Fire Alarm.

Assignments: -

Two Assignments will be given to the students.

Test: - Test will be conducted in the last.

Outcome of the course: - After completing this course students will be able to design and handle various lab instruments manufactured by various scientific industries.

(Affiliated to Kurukshetra University, Kurukshetra)

Certificate Course

Course Name: - Entrepreneurship Development.

UNIT - 1

Entrepreneur: - meaning and definition, Characteristics of an Entrepreneur, Functions of an Entrepreneur and role in Economics development, Qualities of a successful Entrepreneur and problems faced by an Entrepreneur, Distinction between Entrepreneur and entrepreneurship. Economic and social benefits of entrepreneurship, Barriers of entrepreneurship.

UNIT - 2

Setting up of a new project, Project classification objectives of a project, Stages for setting up a Unit/venture, Project Report and Environmental Factors affecting a Business.

UNIT - 3

Sources of Finance, Entrepreneurship Development Programmes.

<u>UNIT – 4</u>

Institutional Support to entrepreneurship development, Government Support and Incentives to new Enterprises.

(Affiliated to Kurukshetra University, Kurukshetra)

Certificate Course

Course Name: - Functional Punjabi & Translation.

Module - 1

Course to theme Sambandhi Jaamkari (02 Hours)

Module – 2

Functional Punjabi (02 Hours)

Module -3

Shabad Jorh (02 Hours)

Module -4

Shabad Rachna (Suffix te Prefix) (02 Hours)

Module -5

Vak Rachna (02 Hours)

Module -6

Vak Rachna (02 Hours)

Module -7

Vak Rachna (02 Hours)

Module -8

Translation from (English to Punjabi) & (Punjabi to English)

(02 Hours)

Conclusion / Assignment / Test / Exam / Reading, Writing and Conversation.

Rules: -

- Only students of this college can participate.
- No fees will be charged for this course.
- Certificates will be given to eligible participants after qualifying the exam to be held at the end of the course.

(Affiliated to Kurukshetra University, Kurukshetra)

Certificate Course

Course Name: - Punjabi Sabbyachaar vich Rista-Nata Parnali (Lokgeeta de Sandarbh Vich).

Module - 1

Course to theme Sambandhi Jaamkari

(02 Hours)

Module – 2

Punjabi Sabbyachaar di visalta te Mahanta

(05 Hours)

Module -3

Punjabi Sabbyachaar vartmaan Paripekh Vich

(05 Hours)

Module -4

Rista-Nata Parnali(Punjabi): Sidantek Paripekh

(03 Hours)

Module -5

Punjabi Rista – Nata Parnali: Samuche Ristiyan da Adiyan

(03 Hours)

Module -6

Punjabi Lokgeet: Samuche Ristiyan da Adiyan ate Vibhlesham.

(05 Hours)

Module -7

Punjabi Lokgeet: Samuche Ristiyan di Sabhya Sarthakta

(04 Hours)

Module -8

Punjabi Rista Nata parnali de badalde paripekh.

(03 Hours)

Conclusion / Assignment / Test / Exam

Rules: -

- Only students of this college can participate.
- No fees will be charged for this course.
- Certificates will be given to eligible participants after qualifying the exam to be held at the end of the course.

(Affiliated to Kurukshetra University, Kurukshetra)

Certificate Course

Course Name: - Spoken English

Punctuation, Verbal and Non-Verbal Communication, Accent, Rhythm and Intonation English in Situations:

- a) Introducing oneself and seeking Introduction.
- b) Asking or giving directions.
- c) Making Enquires.

(Affiliated to Kurukshetra University, Kurukshetra)

Certificate Course

Course Name: - Interview Skills

Entry Behavior Evaluation, Personality, Presentation and speech giving Techniques, Office Etiquette, Telephone Handling Techniques, Active Listening, Objection Handling and questioning techniques, Power Point Presentation, Handling of difficult people, Group Discussion, Body Language, Debating Skills.

Suggested Readings:

- 1. Dale Carnegie, The Quick and Easy way to Effective Speaking.
- 2. Ian Tuhovsky, The Science of Effective Communication.
- 3. Les Giblin, The Art of dealing with people.
- 4. Varinder Kumar, Bodh raj, Communication Skills & personality Development.
- 5. H.Martin and P.C. Wren, High School English Grammar and Composition.
- 6. Raymond Murphy, Essential English Grammar, Cambridge University Press.

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Certificate Course

Course Name: - Community Service

Community Mobilization, Communication Skills, Primary Health Care, First Aid, Stress Management, Counseling.

Project Work / Community Internship.

Suggested Reading:

- 1) Ralph Brody, Community Service: The Art of Volunteering and Service Learning.
- 2) Arthur I.Blaustein.

Wiley, Make a difference: Your Guide to Volunteering and Community Service.

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Certificate Course

Course Name: - Linear Programming and Its Applications.

Module – 1

Unit -1:- Terminology and Requirements of Linear Programming.

- Linear
- Programming
- Objective Function
- Linear Constraints
- Non-Negativity Restriction
- Solution
- Feasible Solution
- Optimum Solution

Unit - 2: - Assumption of Linear Programming.

- Linearity
- Additivity
- Divisibility
- Certainty
- Finiteness
- Non-Negativity

Unit – 3: - Convex Set (Polygon) with Reference to Linear Programming Problem.

Unit – 4: - Application of Linear Programming.

- Management
- Economics and Business
- Agriculture
- Military
- Facilities Location
- Unit 5: Advantage of Linear Programming
- Unit 6: Limitation of Linear Programming
- Unit 7: Formulation of Linear Programming Problems.
 - Less than equal type constraints.
 - Greater than equal type constraints.
 - Mixed type constraints.

Module - 2

- Unit 1: Basic Definition (upto three non-trivial constraints).
 - Feasible and Infeasible Regions.
 - Feasible and Infeasible Solution.
 - Optimal Feasible Solution.
 - Bounded Solution.
 - Unbounded Solution.
- Unit 2: Corner Point Method.
- Unit 3: Formulation and Graphical solution of Linear Programming Problems.
 - Illustration on Diet Problem.
 - Illustration on Transportation Problem.
 - Illustration on manufacturing problems.
- Unit 4: Some Special cases in Linear Programming.
 - Infeasible Solution.
 - Alternative Optimal Solution.
 - Unbounded Solution.
 - Redundancy.

Module -3

Unit – 1: - Concepts and various forms of General Linear Programming problem.

- Stack Variable
- Surplus Variable
- Summation Form
- Matrix Form
- Standard Form
- Canonical Form
- Main Characteristics of Various Forms.

Unit – 2: - Preparation for simplex Method.

- Solution.
- Feasible Solution.
- Basic Vectors.
- Basic Solution.
- Maximum Number of basic Solution.
- Basic Feasible Solution.
- Non-Degenerate Basic Feasible Solution.
- Degenerate Basic Feasible Solution.

Unit -3: - Solution of Linear Programming Problem through Trial and Error Method.

- Various steps of Computational Procedure.
- Starting Simplex Table.
- Complete Simplex Table.
- Breaking Ties.

Module - 4

Degeneracy Problem.

Module - 5

Concept of Transportation Problem.

Unit – 1: - Mathematical Formulation of the Transportation Problem.

Unit – 2: - Important Definitions.

- Feasible Solution.
- Basic Feasible Solution.
- Optimum Solution.
- Non-Degenerate Basic Feasible Solution.

- Degenerate Basic Feasible Solution.
- Balanced Transportation Problem.
- Unbalanced Transportation Problem.

Unit – 3: - Solution of Transportation Problem.

- North West Corner method.
- Least Cost Method.
- Vogel's Approximation.

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Certificate Course

Course Name: - Retail Management

<u>UNIT – 1</u>

Tenses, Conjunction, Articles, Synonyms / Antonyms, translation (Hindi to English), Retranslation (English to Hindi), Curriculum Vital, Paragraph Writing, Comprehension.

<u>UNIT – 2</u>

Basics of Marketing, Introduction of Marketing, Marketing Environment, Demand Forecasting, Consumer Marketing, Buying Process, Market Segmentation: Bases, Marketing Mix.

<u>UNIT – 3</u>

Fundamental of Customer Service, Focuson Customers, Understanding the Customers, Understanding Customer Services, Service Triangle, Scanning environmental & cultural Influences, Building Customer Relationship.

<u>UNIT – 4</u>

Basics of Retailing, Meaning, Nature, Scope, Importance, Type of retailing, Retail Planning, Importance & Process, Developing Retailing Strategies, Objectives, Action Plans, Pricing Strategies.

(Affiliated to Kurukshetra University, Kurukshetra)

Certificate Course

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D.A.V. COLLEGE PEHOWA (KURUKSHETRA)

(Affiliated to Kurukshetra University, Kurukshetra)

Diploma Course

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Certificate Course

Course Name: - "Event Management"

Module – 1

Introduction to event Management – Historical Perspective, type of Events, Principles of Event Management, Code of Ethics.

Module - 2

Event marketing and advertising: Basic Marketing Concepts, Nature, Marketing Mix, Basic Advertising Concepts, Branding, Publicity and Public Relations.

Module – 3

Communication & presentation skills: Introducing Communication, Importance and Nature of Business Communication, Process, Types and barriers of Communications.

Module – 4

Event leadership: Leadership Styles, Managing Team, Group development.

Module – 5

Event Safety and Security.

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(Affiliated to Kurukshetra University, Kurukshetra)

Certificate Course

Course Name: - "Universal Human Value"

Number and Unit:-

- Love and Compassion.
- Truth.
- Non-Violence.
- Peace, Morally Justified.
- Service.
- Sacrifice.

Note: - Certificates will be given to eligible Participants after qualifying the exam to be held at the end of the course.

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Certificate Course

Course Name: - "Gandhism"

Number and Unit:-

- Satyagraha.
- Pacifism and Ahimsa.
- Economics.
- Fasting.
- Religion.
- Criticism and Controversy.

Note: - Certificates will be given to eligible Participants after qualifying the exam to be held at the end of the course.

(Affiliated to Kurukshetra University, Kurukshetra)

Certificate Course

Course Name: - "Personality Development"

Module - 1

Introduction to Soft Skills: - Hard Skills, Employability Skills, Grooming as a Professional with values, Time Management, General Awareness of Current Affairs, Common Errors, Word Power.

Module - 2

Self Introduction: - Organizing the Material, Introducing oneself to Audience – Individual Presentation Practice, Vocabulary, and Sentence Structure.

Module – 3

Introduction to Group Discussion: - Understanding Group Dynamics, Activities to Improve GD, Phonetics – Transcription, Intonation.

Module – 4

Interview Etiquette: - Dress Code, Body Language – Attending Job Interviews – Telephone/Skype, Panel Interviews – One to One, Interview communication Skills-Verbal and Non Verbal.

Module – 5

Introduction to Grammar: - Tenses, Preposition, Articles, Adjectives, Noun, Parts of Speech, Types of Sentences, Pronouns.

D.A.V. COLLEGE PEHOWA (KURUKSHETRA)

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Certificate Course

Course Name: - "Aspects of Business Management"

Module – 1

History of Management, Functions of Planning, Staffing, Organizing,, Leading's Controlling.

Module – 2

Purpose of Business Organizations and their Relationship with the Environment. Identify & Evaluate concepts and Principles of Business Organization & Management.

Module – 3

Understand Fundamental Skills and techniques in Functional Management, Areas of Information Management, Operators and Human Resource especially in handling and Change.

Module – 4

Discuss the Importance of Quality Management Issues on Business and Management.

D.A.V. COLLEGE PEHOWA (KURUKSHETRA)

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Certificate Course

Course Name: - "Tour and Travel Management"

Module - 1

Meaning and definition of Travel & Tourism, types of Tourism, Heritage Tourism.

Module – 2

Rural Tourism, Impact of Tourism, Role and Responsibilities of tourist guide, code of Conduct and behavior of tourist guide.

Module – 3

Communication and guiding, Importance of tourism transport costing & pricing, Air Transport, Land Transport, Railways, Automobiles.

Module – 4

Tourism Planning & development, Social & Cultural impact of Tourism, Ethics in Tourism.

D.A.V. COLLEGE PEHOWA (KURUKSHETRA)

(Affiliated to Kurukshetra University, Kurukshetra)

Certificate Course

पंजीकृत विश्वापी -

पावन नाग

भामका

ANH. 316 HIST

संस्कार वरिन्वम .

रानातनं धर्म के संस्कार ा भागि हास्यार के समार असीमान ज्यान संस्कार () जातकार सरकार (5) नामकरण सं (6) निस्क्रमण संस्कार (6) अन्तवाद्यान संस्कार (8) य सस्वार (क) कार्वाचाद संस्कार (क) विद्यारम्म सरक (1) अवनाम संस्कार (1) वे दार भ्या संस्कार (3) गावन संस्कार (क) समावर्तन संस्कार (क) वि संस्कार (क) अन्ते हिट संस्कार ।

() अल्पान संस्कार संस्कार का समज 11 संस्कार की विष्धे 111 संस्कार का अमीजन

2 पुसतन संस्कार -! पुसतन संस्कार का अर्थ ां प्रसान संस्कार् की विस्त iii पुसवन संस्कार का सम्प

11 विस्तान सम्मार सा उपीयन

3 सीना है। जन मस्तर ना संस्कार की निर्दाया ।। सस्कार करते की विवास

in संस्कार कार्य माउठित समान in सीमान्त्रीन्यन संस्कार का अपे

(अतकर्त सरकार - ! आतकर्त संस्कार का अर्च !! जातमने संस्कार की विश्व !!! जातमने संस्कार की समूच !!! जातमने संस्कार की जिल्ल

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(Affiliated to Kurukshetra University, Kurukshetra)

Diploma Course

Diploma Name: - "Leadership, Politics & Governance"

Module 1: -

Basic Elements of Indian History & Culture.

Module 2: -

Introduction of Indian Constitution.

Module 3: -

Public Administration and Local Governance in India.

Module 4: -

Law and Judiciary in India.

Module 5: -

Leadership skills and Personality Development.

Module 6: -

Social and Economic Issues: Challenges and solutions.

Module 7: -

India's Foreign Policy and National Security.

Module 8: -

Political Though and Ideologies.

Module 9: -

Public Policy in India.

Module 10: -

Indian Politics, Political Parties and Elections.