



AKU B.E./B.Tech EE Sem 8 syllabus

Personnel Management and Industrial Relations

PERSONNEL MANAGEMENT AND INDUSTRIAL RELATION

CREDITS - 03

1. Meaning, concept, function , & importance of personnel management, role of a personnel manager, personnel policies Need of a personnel policies, org anization of personnel Department (functional basis, service basis and chentile basis)

2. Manpower planning : Meaning & concept, need for manpower planning, types of manpower planning, meaning and concept of job analysis, job description & job specification, uses of job analysis information, Recruitment, selection meaning and steps of selection process, meaning of induction

3. Training and develop : Meaning, need & importance for training, method of training, development meaning of development, method of development.

4. Performance appraised :(a)Meaning, Objective, method of performance appraisal .

(b)Transfer : meaning objective, types.

(c) Promotion : Meaning , policies, basis of promotion.(Separation : Resignation, Discharge & Dismissal, Suspension & Retrenchment, Layoff.

5. Wages and salary administration :(a). Meaning purpose & principle of wage & salary administration, factors influencing wage & salary adminis tration.

(b).Meaning of wage & salary, minimum wage , fair wage& living , wage.

(c). Meaning of money and real wage.

(d). Methods of wage payment time rate & piece rate.

(e). Incentive Financial Incentive & non financial Incentive, method of wage payment based on result.

6.(a) Health, safety and welfare facilities.

(b) social security

(1) meaning and concepts, objective.

(2) form of social security social insurance & social assistance.

(c) Problem arising from disease, invalidity, accident, old age and unemployment.

7.(a).Industrial Relation : meaning & concept, changing concept of industrial relation, role played by the employer, trade union & government, current I. R. position in India, I.R. policies of government of India.

(b). Trade Union : Meaning and concept, objective, functions, type, method of trade union.

Reference Book :

1. Industrial relation, Trade Union & Labour Relation by G.P.Sinha & PRN Sinha, Pearson.

Multimedia Technology and Application

MULTIMEDIA TECHNOLOGY AND APPLICATION

CREDITS - 03

1.Introduction : Multimedia today, Impact of Multimedia, Multimedia Systems, Components and its Applications.

2.Text and Audio : Text: Types of Text, Ways to Present Text, Aspects of Text Design, Character, Character Set, Codes, Unicode, Encryption; Audio: Basic Sound Concepts, Types of Sound, Digitizing Sound, Computer Representation of Sound (Sampling Rate, Sampling Size, Quantization), Audio Formats, Audio tools, MIDI.

3.Image and Video : Image: Formats, Image Colour Scheme, Image Enhancement; Video: Analogue and Digital Video, Recording formats and Standards (JPEG, MPEG, H.261) Transmission of Video Signals, Video Capture and Computer based Animation.

4.Synchronization : Temporal relationships, synchronization accuracy specification factors, quality of service.

5.Storage models and Access Techniques : Magnetic media, optical media, file systems (traditional, multimedia)

6.Multimedia devices : Output devices, CD ROM, DVD, Scanner, CCD

7.Image and Video Database : Image representation, segmentation, similarity based retrieval, image retrieval by colour, shape and texture: Indexing k d trees, R trees, Quad trees; Case Studies : QBIC, Virage, Video Contentquerying, video segmentation, indexing.

8. Document Architecture and Content Management : Content Design and Development, general Design Principles.

9.Hypertext : Concept, Open Document Architecture (ODA), Multimedia and Hypermedia Coding Expert Group (MHEG), Standard Generalized Markup Language (SGML), Document type Definition (DTD), Hypertext Markup Language (HTML) in Web Publishing, Case study of Application.

10.Multimedia Application: Interactive television, Video on demand, Video Conferencing, Educational demand, Video Conferencing, Educational Applications, Industrial Applications, Multimedia archives and digital libraries, media editors.

Reference Books :

1. Multimedia Literacy by Fred Hoffsteller, McGraw Hill.
2. Multimedia Fundamentals : Vol. 1 Media Coding and Content Processing by Ralf Steinmetz and Klara Hahrstedt, PHI.
3. Multimedia in Practice : Technology and Application by J. Jeffcoate, PHI.
4. Multimedia Communications by Fred Halsall, Pearson Ed.