

DR.BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY**CIRCULAR NO.SU/Sci.& Tech./B.Voc./33/2018**

It is hereby inform to all concerned that, on the recommendation of the Dean, Faculty of Science & Technology, the Hon'ble Vice-Chancellor has accepted the **following curriculum under B.Voc. programme viz: Certificate, Diploma, Advanced Diploma and B.Voc. Degree** in his emergency powers under section 12(7) of the Maharashtra Public Universities Act, 2016 on behalf of the Academic Council as appended herewith:

1.	B.Voc. Industrial Automation,
2.	B.Voc. Automobile Technology,
3.	B.Voc. Farm Equipment and Machinery,
4.	B.Voc. I.T.Skills and Software Development,
5.	B.Voc. Architectural Planning and Interior Design,
6.	B.Voc. Dairy Products,
7.	B.Voc. Drill Technology,
8.	B.Voc. Plant Tissue Culture and Green House Technology,
9.	B.Voc. Renewable Energy Source,
10.	B.Voc. Computer Hardware & Networking Maintenance.
11.	B.Voc.Food Processing and Preservation.
12.	B.Voc. Sustainable Agriculture.
13.	B.Voc. Bioproducts technician

This is effective from the Academic Year 2018-2019 and onwards.

This curriculum are also available on the university website

www.bamu.ac.in

All concerned are requested to note the contents of this circular and bring notice to the students, teachers and staff for their information and necessary action.

University Campus,
Aurangabad-431 004.
Ref.No.
SU/B.Voc/2018/21709-22148
Date:- 12-12-2018

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12.12.18
Deputy Registrar,
Syllabus Section.

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Copy forwarded with compliments to :-

- 1] **The Principals, affiliated concerned Colleges,
Dr. Babasaheb Ambedkar Marathwada University.**
- 2] **The Director, University Network & Information Centre, UNIC,
with a request to upload this Circular on University Website.**

Copy to :-

- 1] The Director, Board of Examinations & Evaluation, Dr.BAMU,A'bad.
- 2] The Section Officer, [BCS Unit] Examination Branch,
- 3] The Section officer, [Eligibility Unit], Dr.BAMU,A'bad.
- 4] The Programmer [Computer Unit-1] Examinations, Dr.BAMU,A'bad.
- 5] The Programmer [Computer Unit-2] Examinations, Dr.BAMU,A'bad.
- 6] The In-charge, [E-Suvidha Kendra], Rajarshi Shahu Maharaj
Pariksha Bhavan, Dr. Babasaheb Ambekar Marathwada University.
- 7] The Public Relation Officer, Dr.BAMU,A'bad.
- 8] The Record Keeper. Dr.BAMU,A'bad.

B.Voc. Architectural Planning and Interior Designing

Dr. Babasaheb Ambedkar Marathwada University

Aurangabad-431004

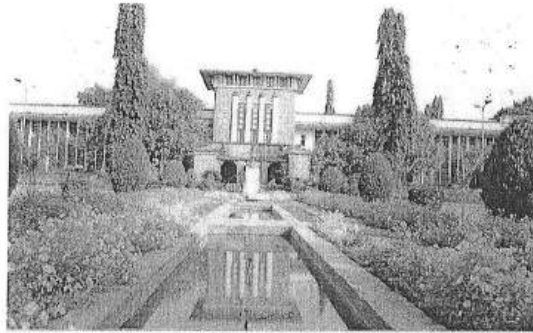
NAAC Re-accredited with Grade 'A'



SYLLABUS

Bachelor of Vocation in
“Architectural Planning and Interior Design”
(3 Years Program)

(With Effective From: 2018-19)



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B.Voc. Architectural Planning and Interior Designing

Introduction:

The University Grants Commission (UGC) has launched a scheme on skills development based higher education as part of college/university education, leading to Bachelor of Vocation (B.Voc.) Degree with multiple exits such as Diploma/Advanced Diploma under the NSQF. The B.Voc. programme is focused on universities and colleges providing undergraduate studies which would also incorporate specific job roles along with broad based general education. This would enable the graduates completing B.Voc. to make a meaningful participation in accelerating India's economy by gaining appropriate employment, becoming entrepreneurs and creating appropriate knowledge.

Although there has been remarkable progress in all sectors of education in last couple of decades, the less regulated area of the education sector—vocational training—seems to have lost its significance/importance. This has led to the widening gap between the supply and demand for skilled manpower across Interior design enabled organizations. This shortage of skills has translated directly into unemployment among an increasing number of graduates who pass-out every year and are forced to bare- trained in order to become marketable. This program is designed to produce a skilled manpower so that wide variety of options in different sectors of Interior design would be available and it will improve the opportunities for the unemployed youths in the country in both the private and public sectors.

Program Outcomes:

Vocational Education is education that prepares the students for specific job role in various sectors in Architectural and Interior design industries and Professional organization. It trains the students from a trade, technician or professional position in Architectural and Interior design Industry on different job roles or entrepreneur. The program outcomes are the skills and knowledge which the students have at each exit level/at the time of graduation. These outcomes are generic and are common to all exit levels mentioned in the program structure.

The student would be able to work as a consultant in Architectural and Interior design, Product design, graphic design, Architectural Technologies, material specialist, individual unit designer in commercial(public) and residential buildings.

Exit Options: Bachelor of Vocation (B. Voc.) is launched under the scheme of University Grants Commission for skill development based on higher education leading to Bachelor of Vocation (B. Voc.) Degree with multiple exits as Diploma/Advanced Diploma under the National Skill Qualification Framework (NSQF). The B. Voc. programme incorporates specific job roles and their National Occupational Standards along with broad based general education.

1. B. Voc. Programme has been designed as per National Skill Qualification Framework emphasizing on skill based education.
2. LEVELS OF AWARD: The certification levels shall lead to Diploma/Advanced Diploma/B. Voc. Degree in Architectural Planning and Interior Design.

Award	Duration	Corresponding NSQF level
Diploma in Architectural Planning and Interior Design	1 Year	5
Advanced Diploma in Architectural Planning and Interior Design	2 Year	6
B. VOC. Degree in Architectural Planning and Interior Design	3 Year	7

B.Voc. Architectural Planning and Interior Designing

The suggested credits for each of the years are as follows:

NSQF level	Skill component credits	General education credits	Normal calendar duration	Exit point /awards
Year 1	36	24	Two Semesters	Diploma in Architectural Planning and Interior Design
Year 2	36	24	Four Semesters	Advanced Diploma in Architectural Planning and Interior Design
Year 3	36	24	Six Semesters	Degree in Architectural Planning and Interior Design
Total	108	72		

Eligibility criteria for Admission:

1. A candidate will be eligible to join 1st semester of B. Voc. Architectural Planning and Interior Design course, if he/she has passed 10+2 examination (**Any Stream**) or 10+2 vocational from any stream of recognized Board/university, or any other examination recognized as equivalent thereto.
2. The course of study of B. Voc. shall be divided in to six semesters and university examination will be held at the end of every semester as fixed by the University.
3. Semester examination will be open to regular candidates who have been on the rolls of a college affiliated to this University and meet the attendance and other requirements.

Admission, Registration and Promotion Process:

Admission will be done on the basis of Percent mark obtained by candidate in Twelfth science or Common entrance test conducted by college or admission criteria as decided by the authority for first semester.

The students will have to clear / qualify at least 50% of theory papers / courses from second semester and all papers / courses (inclusive of theory and practical) from first semester for getting promoted to second year. Similarly the students will have to clear / qualify at least 50% of theory papers / courses from fourth semester and all papers / courses (inclusive of theory and practical) from third semester for getting promoted to third year.

Dropout students will be allowed to register for second or third year as and when the concerned courses are offered by the College, however he/she should not exceed more than twice the duration of the course from the date of first registration at the Centre. Therefore, for obtaining B. Voc. degree a student will have to complete all semesters successfully within 6 years/12 semesters.

Choice Based Credit and Grading System (CBCS):

The choice based credit and grading system has been adopted. This provides flexibility to make the system more responsive to the changing needs of our students, the professionals and society. It gives greater freedom to students to determine their own pace of study.

B.Voc. Architectural Planning and Interior Designing

- Students will have to earn 60 credits for the award of one year Diploma in Vocation (D. Voc.) in Architectural Planning and Interior Design.
- Students will have to earn 120 credits for the award of two year Advance Diploma in Vocation (Adv. D. Voc.) in Architectural Planning and Interior Design.
- Students will have to earn 180 credits for the award of three year Bachelor Degree in Vocation (B. Voc.) in Architectural Planning and Interior Design.

Credit-to-contact hour Mapping:

- One Credit would mean equivalent of 15 periods of 60 minutes each for theory lecture.
- For laboratory course/ workshops/internship/field work/project, the credit weightage for equivalent hours shall be 50% that for lectures.
- For self-learning, based on e-content or otherwise, the credit weightage for equivalent hours of study should be 50% or less of that for lectures.

Attendance:

Students must have 75 % of attendance in each course for appearing examination otherwise he / she will not be strictly allowed for appearing the examination of each course. However, students having 65 % attendance may request Head of the concerned Institution for the condonance of attendance on medical ground.

Evaluation Methods:

The assessment will be based on Continuous Internal Assessment (CIA) and semester end examination (SEE). There shall Continuous Internal Assessment for each theory paper. Marks obtained by the student in all heads viz. CIA and SEE shall be added while declaring the final result.

Continuous Internal Assessment (CIA):- The internal marks shall be assigned on the basis of tutorials/home assignment/seminar presentation/ field Visit Report/Project Report and weekly tests/class test/ preliminary examination to be conducted by the concerned college. These marks shall be communicated to the University before commencement of semester end examination.

End Semester Examination (ESE):

The end semester examination for each theory and practical paper shall be conducted by the University at the end of each semester.

Duration of theory examination shall be of three hours for a paper of 80 marks and one and one half hour for a paper of 40/50 marks. Practical examinations shall be of three hour duration for every semester end examinations respectively.

The respective college is advised to arrange maximum number of experiments from the list of experiments provided with the syllabus or experiments based on theory syllabus.

Semester end practical examination will be of 100 marks and 50 marks will be for internal examination. Student must perform at least eight experiments from each laboratory course. The semester end practical examination will be conducted at the end of each semester along with the theory examination.

Students without certified journal shall not be allowed to appear for the practical examination.

B.Voc. Architectural Planning and Interior Designing

Examination Scheme

A student shall be evaluated for his/her academic performance in a course through class tests, tutorials, practical, homework assignments, term papers, field work, seminars, quizzes, Test examinations, teachers assessments and the End-Semester Examination as applicable.

At the end of the semester, there would be an End Semester Examination as per syllabus. For the examination of First Year for the academic year 2018-2019, the minimum percentage for passing for each course code, practical examination and ESE is 40 %, failing which he/she will get F grade for that course code. This rule will be progressively applicable for higher classes in next consecutive years.

The project work shall be evaluated by midterm seminar(s), quality of work carried out, project report submission and the viva-voce examinations.

The industrial/field training shall be evaluated through the quality of work carried out, the report submission and presentation(s).

Rule for Combined Passing:

To pass the examination a candidate must obtain minimum 40% of Marks in each End Semester Examination & CIA taken together, however the candidate must obtain minimum 35% of Marks at the End Semester Examination.

To pass a subject where there is no provision of class test, the candidate must obtain 40% of Marks in the End Semester Examination.

If the candidate remains absent for CIA, his performance should be treated as "Zero" Marks.

Results Grievances / Redressal :

Grievances / redressal committee will be constituted in the college to resolve all grievances relating to the evaluation. The committee shall consist of the Principal of the college, the concerned teacher of a particular course and senior faculty member. The decision of Grievances / redressal committee will have to be approved by Competent Authority.

Earning Credits:

At the end of every semester, a letter grade will be awarded in each course for which a student had registered. A student's performance will be measured by the number of credits that he/she earned by the weighted Grade Point Average (GPA). The SGPA (Semester Grade Point Average) will be awarded after completion of respective semester and the CGPA (Cumulative Grade Point Average) will be awarded by the university at the respective exit point.

Grading System:

- The grading reflects a student-own proficiency in the course. A ten point rating scale shall be used for the evaluation of the performance of the students to provide letter grade for each course and overall grade for the B.Voc. Program. Grade points are based on the total number of marks obtained by him / her in all heads of the examination of the course. The grade points and their equivalent range of marks are shown in Table-I

I. Voc. Architectural Planning and Interior Designing

Table I: Ten point grade and grade description

Marks Obtained (%)	Grade Point	Letter Grade	Description
90-100	9.00- 10	O	Outstanding
80-89	8.00-8.90	A++	Exceptional
70-79	7.00-7.90	A+	Excellent
60-69	6.00-6.90	A	Very Good
55-59	5.50-5.90	B+	Good
50-54	5.00-5.40	B	Fair
45-49	4.50-4.90	C++	Average (Above)
41-44	4.1-4.49	C	Average
40	4.0	P	Pass
< 40	0.0	F	Fail (Unsatisfactory)
	0.0	AB	Absent

Non-appearance in any examination / assessment shall be treated as the students have secured zero marks in that subject examination / assessment.

Minimum P grade (4.00 grade points) shall be the limit to clear / pass the course / subject. A student with F grade will be considered as "failed" in the concerned course and he / she has to clear the course by appearing in the next successive semester examinations.

Every student shall be awarded grade points out of maximum 10 points in each subject (based on 10 point scale). Based on the grade points obtained in each subject, Semester Grade Point Average (SGPA) and then Cumulative Grade Point Average (CGPA) shall be computed. Results will be announced at the end of each semester and CGPA will be given at respective exit point.

B.Voc. Architectural Planning and Interior Designing

Computation of SGPA (Semester Grade Point Average) and CGPA (Cumulative Grade Point Average)

Grade in each subject / course will be calculated based on the summation of marks obtained in all modules.

The computation of SGPA and CGPA will be as below

- Semester Grade Point Average (SGPA) is the weighted average points obtained by the students in a semester and will be computed as follows,

$$\text{Student SGPA} = \frac{\text{Sum (Course Credits) X Number of Grade Points in concerned Course Gained by the}}{\text{Sum (Course Credits)}}$$

The SGPA will be mentioned on the grade card at the end of every semester.

- The Cumulative Grade Point Average (CGPA) will be used to describe the overall performance of a student in all semester of the course and will be computed as under.

$$\text{CGPA} = \frac{\text{Sum (All six Semester SGPA)}}{\text{Total Number of Semester}}$$

The SGPA and CGPA shall be rounded off to the second place of decimal.

Grade Card

Results will be declared and the grade card (containing the grades obtained by the student along with SGPA) will be issued by the university after completion of every semester. The grade card will be consisting of following details.

Title of the courses along with code opted by the student.

Credits associated with the course.

Grades and grade points secured by the student.

Total credits earned by the student in a particular semester.

Total credits earned by the students till that semester.

SGPA of the student.

CGPA of the student (at respective exit point).

Cumulative Grade Card

The grade card showing details grades secured by the student in each subject in all semesters along with overall CGPA will be issued by the University at respective exit point.

Architectural Planning and Interior Design First to Third Year
- 10 -

B.Voc. Architectural Planning and Interior Designing

Curriculum : Semester wise Paper No., Paper title, number of credits for each paper, and the examination pattern

First Year									
SEMESTER – I									
Paper No.	Paper Title	No. of Credits	Lectures Per Week		Exam Pattern (Marks)				Total
			Th.	Pr.	Theory		Practical		
					CIA	ESE	CIA	ESE	
General Component									
P-1 GC101T	Communication Skills – I	4	3		20	80			100
P-2 GC102T	Environmental Studies – I	4	3		20	80			100
P-3 GC103TP	Computer Fundamental – I	4	2	1	10	40		50	100
Skill Component									
P-4 SC2104T	Graphic presentation-I	3	4		25	50			75
P-5 SC2105T	Aesthetics-I	3	4		25	50			75
P-6 SC2106P	Practical interior Design -I	6		2			50	100	150
P-7 SC2107P	Material and furniture design	6		2			50	100	150
	Total	30			100	300	100	250	750
SEMESTER – II									
General Component									
P-8 GC201T	Communication Skills – I	4	3		20	80			100
P-9 GC202T	Environmental Studies – I	4	3		20	80			100
P-10 GC203TP	Computer Fundamental – I	4	2	1	10	40		50	100
Skill Component									
P-11 SC2204T	Graphic presentation-II	3	4		25	50			75
P-12 SC2205T	Aesthetics-II	3	4		25	50			75
P-13 SC2206P	Practical Interior Design -II	6		2			50	100	150
P-14 SC2207P	Practical Professional practice-I	6		2			50	100	150
	Total	30			100	300	100	250	750

Nomenclature- GC General Component; SC Skill Component; CIA= Continuous Internal Assessment; ESE= End Semester Examination

B.Voc. Architectural Planning and Interior Designing

Second Year									
SEMESTER – III									
Paper No.	Paper Title	No. of Credits	Lectures Per Week		Exam Pattern (Marks)				Total
			Th.	Pr.	Theory		Practical		
General Component									
P-15 GC301T	Aptitude and Logical Reasoning	4	3		20	80			100
P-16 GC302T	Principles of Management	4	3		20	80			100
P-17 GC303TP	: Database Management System	4	3		20	80			100
Skill Component									
P-18 SC2304T	Graphic presentation-III	3	4		25	50			75
P-19 SC2305T	History of interior-I	3	4		25	50			75
P-20 SC2306P	History of Interiors practical and visits	6		2			50	100	150
P-21 SC2307P	TECHNICAL SKILLS	6		2			50	100	150
Total		30			110	340	100	200	750
SEMESTER – IV									
General Component									
P-22 GC401T	Business Statistics	4	3		20	80			100
P-23 GC402T	Industrial Psychology	4	3		20	80			100
P-24 GC403TP	E-Commerce	4	3		20	80			100
Skill Component									
P-25 SC2404T	Working drawing	3	4		25	50			75
P-26 SC2405T	Computer II CAD	3	4		25	50			75
P-27 SC2406P	Computer II Practical	6		2			50	100	150
P-28 SC2407P	Market survey	6		2			50	100	150
Total		30			110	340	100	200	750

Nomenclature- GC General Component; SC Skill Component; CIA= Continuous Internal Assessment; ESE= End Semester Examination

Architectural Planning and Interior Design First to Third Year
- 12 -

B.Voc. Architectural Planning and Interior Designing

Third year									
SEMESTER – V									
Paper No.	Paper Title	No. of Credits	Lectures Per Week		Exam Pattern (Marks)				Total
			Th.	Pr.	Theory		Practical		
					CIA	ESE	CIA	ESE	
General Component									
P-29 GC501T	Campus to corporate	4	3		20	80			100
P-30 GC502T	Entrepreneurship Development	4	3		20	80			100
P-31 GC503TP	Business Economics	4	3		20	80			100
Skill Component									
P-32 SC2504T	Interior design IV	3	4		25	50			75
P-33 SC2505T	Graphical presentation IV	3	4		25	50			75
P-34 SC2506P	contemporary Interior design IV	6		2			50	100	150
P-35 SC2507P	Practical on contemporary design	6		2			50	100	150
	Total	30			110	340	100	200	750
SEMESTER – VI									
General Component									
P-36 GC601T	Research Methodology	4	3		20	80			100
P-37 GC602T	Human Resource Management	4	3		20	80			100
P-38 GC603T	Principles of Marketing	4	3		20	80			100
Skill Component									
P-39 SC2604T	Seminar I,II,III	6							150
P-40 SC2605P	Project and dissertation	12							300
	Total	30							750

Nomenclature- GC General Component; SC Skill Component; CIA= Continuous Internal Assessment; ESE= End Semester Examination

E.Voc. Architectural Planning and Interior Designing
Continuous Internal Assessment

1. Paper No. GC101T & GC201T **Communication Skills – I & Communication Skills – II**
Total 20 Marks: 10 marks for test and 10 marks for Language lab practical/ Assignments.
 2. GC102T & GC202T **Environmental Studies – I & Environmental Studies – II**
Total 20 Marks: 10 marks for test and 10 marks for Tutorial / field Visit Report/Project Report/ Assignments.
 3. Paper No. GC103TP & 2013TP **Comp. Fundamental –I & Comp. Fundamental –II**
Total 10 Marks: 5 marks for test and 5 marks for Tutorial / Assignments.
- All Skill Components:**
Total 25 Marks: 15 marks for test and 10 marks for Tutorial / field Visit Report/Project Report/ Assignments.

End Semester Examination (ESE)

Theory Examination Question Paper Pattern

General Component

1. Paper No. - 1 GC101T **Communication Skills – I**
2. Paper No. - 2 GC102T **Environmental Studies – I**
3. Paper No. - 8 GC201T **Communication Skills – II**
4. Paper No. - 9 GC202T **Environmental Studies – II**
5. Paper No. - 15 GC301T **Aptitude and Logical Reasoning**
6. Paper No. - 16 GC302T **Principles of Management**
7. Paper No. - 17 GC303T **Database Management System**
8. Paper No. - 22 GC401T **Business Statistics**
9. Paper No. - 23 GC402T **Industrial Psychology**
10. Paper No. - 24 GC403T **E - Commerce**
11. Paper No. - 29 GC501T **Campus to Corporate**
12. Paper No. - 30 GC502T **Entrepreneurship development**
13. Paper No. - 31 GC503T **Business Economics**
14. Paper No. - 36 GC601T **Research Methodology**
15. Paper No. - 37 GC602T **Human Resource Management**
16. Paper No. - 38 GC603T **Principles of Marketing**

Q. No.	Particular	Marks
1	MCQ/ Fill in the blanks/ Match the pair/ True or False	10
2	Answer in one sentence	10
3, 4 & 5	a. Short answer questions OR	10
	b. Short answer questions	10
6 & 7	a. Long answer questions OR	15
	b. Long answer questions	15
Total Marks		80

8. Voc. Architectural Planning and Interior Designing

1. Paper No. - 3 GC103T Computer Fundamental – I

2. Paper No. - 10 GC203T Computer Fundamental – II

Q. No.	Particular	Marks
1	MCQ/ Fill in the blanks/ Match the pair/ True or False	10
2	Answer in one sentence	10
3 & 4	a. Short answer questions OR b. Short answer questions	10
5	a. Long answer questions OR b. Long answer questions	10
Total Marks		50

Skill Component : For all Theory papers

Q. No.	Particular	Marks
1	MCQ/ Fill in the blanks/ Match the pair/ True or False	10
2	Answer in one sentence	10
3 & 4	c. Short answer questions OR d. Short answer questions	10
5	c. Long answer questions OR d. Long answer questions	10
Total Marks		50

Practical Examination

Question Paper Pattern of ESE

For Practical of Paper No: GC103TP & GC203TP Computer Fundamental – I & Computer Fundamental – II

Q. No.	Particular	Marks
1	Record Book	10
2	Viva	10
3	1/2 Practical/s	30
Total Marks		50

For All Skill Components

Q. No.	Particular	Marks
1	Record Book	20
2	Viva	20
3	1/2/3 Practical/s	60
Total Marks		100

B.Voc. Architectural Planning and Interior Designing



B.Voc.
(Architectural Planning and Interior Design)
Semester - I & II

B.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID

Semester - I

4-Credits=60 Lectures

Paper Title: Communication Skills - I

Paper No.1 : GC101T

Unit I :

25L

1. Introduction to Communication

Importance of Communication, Definition of Communication
Elements of Communication, Communication process

2 Types of Communication

Upward Communication, Downward Communication
Horizontal Communication

3. Method of Communication : Verbal , Oral , Written

Unit – II:

20L

4. Written Communication

Punctuation marks.
Grammar: Parts of Speech, tenses,
vocabulary building, constructing para.
'C's of good communication
Language of business writing

5. Oral Communication

Speeches and Presentation
Dialogues

Unit – III (English Language Lab)

15L

3. Listening Comprehension

Listening and typing – Listening and sequencing
of sentences .

4. Reading Comprehension and Vocabulary

Filling in the blanks - Cloze Exercises –
Vocabulary building –
Reading and answering questions.

5. Speaking

- a. Phonetics: Intonation – Ear Training – Correct
Pronunciation – Sound recognition exercises -
Common Errors in English
- b. Conversations: Face to Face Conversation -
Telephone conversation

Text Books

- 1. Business Communication , By Urmila Rai &S. M. Rai. Himalaya Pub.
- 2. Communication Skills for Effective Management By Dr. Anjali Ghanekar. Everest
Pub. House.
- 3. Developing Communication Skills By Krishna Mohan, Meera Banerji. McMillan

B.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID Semester - I

4-Credits=60 Lectures

Paper Title: Environmental Studies - I

Paper No. 2: GC102T

Unit I :Multidisciplinary nature of environmental studies

15L

Definition, scope and importance Need for public awareness.

Unit – II Natural Resources : Renewable and non-renewable resources.

15L

Natural resources and associated problems.

a) Forest resources : Use and over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forest and tribal people.

b) Water resources : Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems.

c) Mineral resources : Use and exploitation, environmental effects of extracting and using mineral resources, case studies.

d) Food resources : World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies.

e) Energy resources : Growing energy needs, renewable and non renewable energy sources, use of alternate energy sources. Case studies.

f) Land resources : Land as a resource, land degradation, man induced landslides, soil erosion and desertification.

• Role of an individual in conservation of natural resources.

• Equitable use of resources for sustainable lifestyles.

Unit – III Ecosystems

15L

Concept of an ecosystem.

• Structure and function of an ecosystem.

• Producers, consumers and decomposers.

• Energy flow in the ecosystem.

• Ecological succession.

• Food chains, food webs and ecological pyramids.

• Introduction, types, characteristic features, structure and function of the following ecosystem :-

a. Forest ecosystem b. Grassland ecosystem

c. Desert ecosystem d. Aquatic ecosystems (ponds, streams, lakes, rivers, oceans)

Unit – IV Biodiversity and its conservation

15L

• Introduction – Definition : genetic, species and ecosystem diversity.

• Biogeographical classification of India

• Value of biodiversity : consumptive use, productive use, social, ethical, aesthetic and option values,

• Biodiversity at global, National and local levels.

• India as a mega-diversity nation, • Hot-spots of biodiversity.

• Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts.

• Endangered and endemic species of India

• Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.

B.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID

Semester - I

4-Credits=60 Lectures

Paper Title: Computer Fundamentals-I

Paper No.3 : GC103TP

UNIT - I

15L

Fundamentals of Computer System

Characteristics & features of Computers, Components of Computers, Organization of Computer, Block Diagram of Computer, Input Devices : Touch screen , OMR, OBR , OCR, Light pen, Scanners, Output Devices: Digitizers, Plotters, LCD Projector, Plasma Display, Printers, Software: Types of Software.

Windows Operating System

Windows Basics, Personalize your desktop, logoff, Hibernate, sleep mode, Connect various Devices to computer, personalize your computer, Desktop, Screen Saver, Themes, File name and extensions, Folder management. Use of various Applications of Windows(Viz. Paint, Calculator, sniping tool etc.), Windows help, use of paint to resize and edit a photo for upload

UNIT - II

15L

Internet Basics: internet, Intranet, LAN, WAN, MAN, web browser, www, http and https, internet security (SSL), E-mail creation and operation, creating/registering to various sites, setting favorite, Browser options/setting for homepage, download, adding plugins to browser. Online booking: bus, railway, air tickets, hotel, movies etc. Bill payments: telephone, electricity, mobile recharge, etc. Searching Engines: Searching techniques.

Unit-III

30L

MS-Word :

Word basic: Tabs and tools, their settings. Word Shortcuts. Inserting and formatting shapes, pictures, online pictures, smart arts, hyperlinks, headers and footers. Creating following Files in Word, Admission Form, I-Card, Bio-Data, Project Report, Certificate, Flyer, Letterhead, Envelop printing with address, Greeting Card, Notice, Labels using Mail Marg. Printing techniques

MS-PowerPoint:

PowerPoint Basics: Tabs and tools their settings, PowerPoint Shortcuts Applying Animation and Transition Effects. Inserting and formatting shapes, pictures, online pictures, smart arts, hyperlinks, headers and footers, Excel data. Creating Following outputs: Greeting card, Creating Photo Album, presentation on any 5 topics of Skill Components. Different views (Notes page Slide sorter etc.), Creating Handouts.

Reference:

- Fundamentals of Computers, B.Ram,
- Computer Fundamental, V. Rajaraman
- Microsoft Office – Complete Reference – BPB Publication

B.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID Semester - I

Paper Title: Graphic Representation-I

3-Credits=45 Lectures

Paper No.4 : SC210-4T

Unit – I : 1 5L

Introduction

Introduction to drawing, equipment and materials and methods of using them

Types of lines and forms

Drawing horizontal, vertical lines, curved lines and angles shapes, forms, solids

Unit – II 1 0L

DRAWING

1. Introduction to sheet layout.
2. Different types of lines
3. Drawing different types of geometrical forms using
4. Orthographic projections – concepts, principles and methods
5. Application of projections preparing 2- dimensional drawing.
Section of solid

Unit – III 1 0L

SCALE DRAWING

1. Introduction to CAD- Basic commands
2. Understanding scale- metric, foot, and inches using computer
3. Reduction and enlargement
4. Architectural lettering

Unit – IV 1 0L

ORTHOGRAPHIC PROJECTIONS

Orthographic projection- concepts, principles and methods

1. Application of projection.
2. Preparing 2 dimensional diagrams.
3. Section of solids

Reference:

- Engineering drawing, R.K. DHAVAN
- ENGINEERING DRAWING, N.D.BHATT

E.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID Semester - I

3-Credits=45 Lectures

Paper Title: Aesthetics –I

Paper No.5 : SC2105T

Unit –I

10L

Element Design

1. Definitions and meaning of design, Importance of design.

Examples of design from nature. Fundamental elements of design in 2-D and their definitions; point, line, shape, form, space, texture, value, color and material, Introduction to the principles of design in 2-D and 3-D - unity, balance, symmetry proportion, scale, hierarchy, rhythm, contrast, harmony, focus, use of grids, creating repetitive patterns.

Unit –II

10L

Colour planning

Visual effects, psychology, application types of colour

Primary, secondary, tertiary colors, color wheel, color schemes color value, intensity, and modification of color hues – tints, shades, neutralization. Color charts – types, making and using. Color harmony, use of color harmony. different schemes and its uses in interior,

Unit –III

10L

Texture planning

visual effects , psychology, application types of textures, different schemes and its uses in interior

Unit –IV

15L

Drawing

Building drawing and Model making

Reference:

1. Aesthetics in Engineering , Alastair S. Macdonalds
2. Aesthetics of Engineering , F. C. Ashford

B.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID Semester - I

6-Credits=90 Lectures

Paper Title: Interior Design Studio –I

Paper No.6 : SC210 6P

Introduction Anthropometry

Anthropometry. (Scientific study of measurements and proportions of human body.

Anthropometry

Anthropometry data and special requirements for human needs with relation to movement, function, furniture and space

Understanding spaces and volumes

Interior Accessories design

Design of simple furniture's with activities, seating, wincing, Sleeping, storages, etc.

To understand design of simple furniture and model making

B.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID

Semester - I

6-Credits=90 Lectures

Paper Title: Material and Furniture design

Paper No.7 : SC2107 P

Purpose and relevance of Art, Development of art, Exploration of art forms, Study of ornament in Interior Design, Introduction to Heritage Interiors, Industrial Revolution and its influence on society and culture, Various elements of society, General understanding of Interior Design and integration with architecture.

Introduction to various basic building material, Bricks Cement Sand and Steel, Mortar & Concrete, timber etc.

Introduction to Building Components

Introduction to Different material used in I.D

Material application to small and complex places.

Visual impact.

Bed Room furniture

Living furniture

Children's furniture

Dining room furniture

Ink & color rendering of residence furniture piece

B.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID Semester - II 4-Credits=60 Lectures
Paper Title: Communication Skills - II Paper No.8 : GC201T

Unit I : 25L

Written media of Communication: Letters, Notices, Minutes, Manual, Leaflet, Complaints & Suggestion, Job Application, Visual Media of communication: slide presentation, Pictures & Photographs, Posters & Advertisement, Non-Verbal Media of Communication, Types of Report, characteristics of Good Report, Essential Requisites of Good Report-Writing, Planning the Report, Outlining Issues for Analysis, Writing the Reports.

Unit - II: 20L

Problem of Group Communication- Meeting - types of meeting, Advantages & Disadvantages of Meeting, - Preparation for Meeting - conduct of a Meeting - Responsibility of participants. Purpose, Types of interviews - promotion, appraisal, exit, telephone.

Employment or selection Interview : Candidate's preparation, Question commonly asked in interview, role of interviewer, Interviewer's preparation.

Unit - III (English Language Lab) 15L

Cassettes: "Tiger's Eye" Series. (vol. 1 & 2) , "Twist in the Tail" , The Listening drill is to be given and question should be framed., Reading with proper pronunciation and ideal reading is to be recorded., CIEFL' Spoken English exercises part one and two, Drilling : Proper Pronunciation of word and sentences

Text Books

1. Business Communication , By Urmila Rai & S. M. Rai. Himalaya Pub.
2. Communication Skills for Effective Management By Dr. Anjali Ghanekar. Everest Pub. House.
3. Developing Communication Skills By Krishna Mohan, Meera Banerji. McMillan

B.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID Semester - II

4-Credits=60 Lectures

Paper Title: Environmental Studies - II

Paper No.9 : GC202T

Unit I :

15L

The Multi-disciplinary Nature of Environmental Studies:

Definition, scope and importance, Need for Public Awareness, Ecology and Ecosystems: Definition of Ecology, Structure and function of an ecosystem, Producers, Consumers and Decomposers, Energy flow in the ecosystem, Ecological succession, Food chains, food webs and ecological pyramids, Introduction, types, characteristics features and function of – forest ecosystem, grassland ecosystem, desert ecosystem, aquatic ecosystem(ponds, streams, lakes, rivers, oceans, estuaries)

Unit – II

15L

Biodiversity and its conservation:

Introduction, genetic, species and ecosystem diversity definition, value of biodiversity, biodiversity at global, national and local levels, India as a mega diversity nation, hot spots of biodiversity, threats to biodiversity – habitat loss, poaching of wild life, man wild life conflicts, endangered and endemic species of India, conservation of bio diversity in in-situ EX-situ

Unit – III

15L

Natural Resources:

Air resources-features, composition, structure, air quality management, forest resources–, water resources, mineral resources, food resources, energy resources, land resources, Environmental pollution: definition, air pollution, water pollution, marine pollution, thermal pollution, soil pollution, noise pollution, nuclear hazards, waste management, cleaner technologies, reuse and recycling, solid waste management, role of individuals to prevent pollution, pollution case studies, disaster management – floods, earthquake, cyclone and landslides

Unit – IV

15L

Social issues and the environment:

From unsustainable to sustainable development, urban problems related to energy, water conservation, rain water harvesting, water shed management, resettlement and rehabilitation of people- it's problems and concerns, case studies, environmental ethics- environmental value relationships, environmental ethics and species preservation, climate change, global warming, acid rain, Ozone layer depletion, nuclear accidents and holocaust, case studies, waste land reclamation, consumerism and waste products, legislation to protect the environment, environmental protection act, dir(prevention and control of pollution) act, water(prevention and control of pollution) act, wild life protection act, forest conservation act, environmental management systems(EMS), environmental information systems(EIS), P.I.L public hearing and role of NGOS, ISO 9000 and 14000, issues involved in enforcement of environment legislation, public awareness, environmental economics-environment and standard of living

Reference:

- Kiran B Chokkas and others : "Understanding Environment", Sage 2004
- P. VenugopalaRao, Environmental Science & Engineering, PHI
- Benny Joseph: Environmental Studies, Tata McGraw Hill
- Lester R Brown, Plan B: rescuing a Planet under stress and a civilization in trouble,
- Orient LongmanKurien Joseph & R Nagendran, Essentials of Environmental Studies, Pearson

E Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID Semester - II 3-Credits=45 Lectures
Paper Title: Computer Fundamentals-II Paper No.10 : SC203T

Unit –I

15L

Printing and Scanning:

Types of Printers their advantages and disadvantages, Installation of printer driver, Printer setting, Printer shearing, Default printer setting, Printing in different software. Types of Scanners their advantages and disadvantages, Installation of scanner driver, Scanner settings for file size and image resolution, saving as Image, PDF.

Projector: Connecting projector to Desktop, Laptop, projector setting.

Windows Control Panel: Windows Shortcuts, Windows Updates, Firewall, Power Options, Backup and Restore, Clock Language and Region setting,

Unit –II

15L

Outlook:

Outlook Basics Tabs and tools, Creating Contacts, Scheduling Appointments, Task, Events, Setting status of a task and its priority. Configuring an email account to outlook. Sending and receiving mail

Internet :

Internet Banking, online payments do and don't. do and don't while Password setting Adhar update, registration on various government sites.

Unit –III

30L

MS-Excel :

Excel basic: Tabs and tools, their settings. Excel Shortcuts. Number Formatting, Conditional Formatting, Sorting and Filters, Inserting and formatting shapes, pictures, online pictures, smart arts, hyperlinks, headers and footers. Charts and their types, Formula Fundamentals Syntax of a formula. Printing techniques. References: Absolute and Relative. Creating following Files in Excel, Time Table, Result sheet, Invoice, Income and Expenditure, Budget sheet etc.

References:

- Fundamentals of Computers, B.Ram,
- Computer Fundamental, V. Rajaraman
- Microsoft Office – Complete Reference – BPB Publication

E.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID Semester - II

3-Credits=45 Lectures

Paper Title: Graphic Presentation II

aper No.11 : SC2204T

Unit –I

15L

INTRODUCTION

Introduction to pencil exercises, Simple exercises of object drawings, Fundamentals of drawing and its practice, Architectural symbols, Measuring and drawing to scale, Interiors and furniture sketching, Building Geometry Measured. & Free hand Decorative Lettering in Pencil, ink & colour Lettering 7:5, 5:4

Unit –II

10L

SYMBOLS

Architectural Symbols. & Usage in drawing sheet presentation

Unit –III

10L

DRAWING

Drawing Drawing 2D & 3D geometrical Objects

Unit –IV

10L

PLANNING

Plan & elevation Understanding Drawing plan & elevation of different geometrical forms & objects.

Core Reference:

- Engineering drawing, R.K. DHAVAN
- ENGINEERING DRAWING, N.D.BHATT

B.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID
Paper Title: Aesthetics II

Semester - II

3-Credits=45 Lectures

Paper No.12 : SC2205T

Unit –I

15L

Principles of Design Balance
Mass Harmony ,
Diversity centre of interest
Repitition
eradiation

Unit –II

15L

Aesthetics of furniture
Aesthetics of furniture furnishings
Trends of Historical Pieces
study of Historical Pieces
different styles of Historical Pieces
Developments of Historical Pieces

Unit-III

15L

Ergonomics in interior design
The study of human efficiency in their working environment

References

Aesthetics in Engineering , Alastair S. Macdonalds.
Aesthetics of Engineering , F. C. Ashford

B.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID

Semester - II

6-Credits=90 Lectures

Paper Title: Interior Design Studio -II

Paper No. 13: SC2106P

Purpose and relevance of Art, Development of art, Exploration of art forms, Study of ornament in Interior Design, Introduction to Heritage Interiors, Industrial Revolution and its influence on society and culture, Various elements of society, General understanding of Interior Design and integration with architecture

Furniture design single Item (Residential &commercial)

Group of furniture elements alongwith surroundings.

Design problem of multi activity residential singles room design including case study area (5 o 9-m)

2D CAD All Commands

To draw simple figures in 2-D using Basic drafting & edit command as a sessional work

B.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID

Semester - II

6-Credits=90 Lectures

Paper Title: Professional Practices- I

Paper No.14 : SC220 7P

1. Interior Designer
2. Characteristics of Designs
3. Necessity of Designs
4. Role Designs
5. Fees of Designs
6. Ethics & professional conduct of I-D Self-development of Job procurement & Public relation
7. Recording documents of projects
8. Business correspondence , public relation , Meetings, seminars, conference , ability of conveying an idea to a lay man.
9. Introduction to Different material used in I.D
10. Introduction to Development & usage of furniture , Free hand sketches of Residential Furniture & Human
11. Bed Room furniture
12. Living furniture
13. Children's furniture
14. Dining room furniture
15. Ink& color rendering of residence furniture piece
16. Case study of single room project and analysing them according to the material used and the design

B.Voc. Architectural Planning and Interior Designing



B.Voc.
(Architectural Planning and Interior Design)
Semester - III & IV

B.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID

Semester-III

4-Credits=60 Lectures

PaperTitle: Aptitude and Logical Reasoning

PaperNo. 15: GC301T

UNIT-I: Reasoning Ability & General English

Reasoning Ability: Data interpretation (bar chart, pie chart, line chart, tables), number series, blood relations, odd series, Distance and Direction etc.

General English: Vocabulary, synonyms, Antonyms, Word formation, Passage reading.

Arithmetic: Number System, Simplification, Square root & Cube root, Surds and Indices, HCF, LCM Decimal fraction, Average.

UNIT-II: Percentage, Problem on Ages, Partnership, Profit & loss, Ratio & proportion.

UNIT-III: Probability, Permutation and combination.

UNIT-IV: Set theory, properties of sets, Venn diagram .

Suggested Readings:

- 1 Quantitative Aptitude by R.S. Agarwal
2. Verbal & Non-verbal Reasoning by R.S. Agarwal
3. English Grammar, Wren & Martin
4. Cracking the Test of Reasoning & Data Interpretation, Prof. Jagdeep Vaishnav, Nishant B. Patel, Biztantra
5. Test of Reasoning, Edgar Thorpe, Tata-McGraw Hill, 200

B.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in SWCM **Semester-III**
PaperTitle: Principles of Management

4-Credits=60 Lectures
PaperNo. 16: GC302T

1. Introduction: - Concept of Management, Scope, Functions and Principles of Management, Evolution of Management thought. Contribution of F.W. Taylor, Henry Fayol, Mary Parker Follett, Elton Mayo, Peter Drucker. **15 L.**

2. Planning: - The Process of Planning, Objectives, Policy and Procedures, Forecasting and Decision Making. **15 L.**

3. Organizing: - Meaning, Importance and Principles, Span of Management, Centralization and Decentralization, Patterns of Organization, Line and Staff Relationships. **15 L.**

4. Staffing: - Nature & Scope of Staffing, Manpower Planning, Selection & Training, Performance Appraisal. **8 L.**

5. Controlling: - Concept or Managerial Control, Control aids, Scope Responsibilities of Managers. **7 L.**

Books Recommended: -

Management & Organizations Behaviour— by Paul Hersey & Ken Blanchard

Essentials of Management— by Paul Hersey & Ken Blanchard

Principals and Practice of Management— by L.M. Prasad

Human Behavior at Work— by Keith Davis

Organizational Behavior— by Robbins

B.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID

Semester-III

4-Credits=60 Lectures

PaperTitle: Database Management System

PaperNo. 17: GC303T

Unit – I

15 L.

Basic Concept

Data Definition, Types of Data, Record and File, Database System Application, Purpose of Database System, Component of a DBMS; Users, Facilities & Structure, Advantageous & Disadvantageous of DBMS

Data Modeling & Design

Data Association – Entities, Attributes & Association, Relationship among Entities, Types of Data Model: Relational, ER, Semi-structured, Object-Oriented, Advantageous & Disadvantageous of above model

Unit – II

15 L.

Entity-Relationship Data Model

Entity, Entity Set, Types of Entities, Strong & Weak Entity, Representation, Attribute, Types of Attributes, Representation

Relational Data Model

Basic Structure of Relational Data Model, Database Schema, Constraints: Integrity Rule 1 & 2, Normal Form: Anomalies, Functional Dependency, Dependency Diagram, First Normal Form, Second Normal Form, Third Normal Form

Unit-III

15 L.

Structured Query Language

DDL Statements to Create and Manage Tables using Create & Alter, Manipulating Data using Insert, Update & Delete Statement, Retrieving Data Using SQL Select, Restricting and Sorting Data, Using Single Row functions, Conversion Functions and Conditional Expressions, Aggregated Data Using Group Function, Displaying data from Multiple tables.

Unit – IV

15 L.

Data Storage

Overview of Physical Storage Media, Magnetic Disk

Transaction Processing

Transaction Concept, Transaction State

Reference Books:

- 1) Database System Concepts (Sixth Edition) Avi Silberschatz, Henry F. Korth, S. Sudarshan
- 2) An Introduction to Database Systems by Bipin C. Desai

B.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID Semester-III
Paper Title: Graphic Presentation III

3-Credits=45 Lectures
Paper No.18 : SC23O4T

Unit –I	15L
INTRODUCTION	
1. Proficiency in 3-D Drawing	
2. Perspectives with measuring point methods	
a) one point three wall	
b) two point two wall	
c) two point three wall	
d) planometric	
Unit –II	10L
1. Sciography in 3D and 2D drawings for interior schemes	
Unit –III	
1. Model making of interior scheme	10L
Unit –IV presentation drawing with different media	10L

Core Reference:

- Engineering drawing, R.K. DHAVAN
- ENGINEERING DRAWING, N.D.BHATT

ENGINEERING DRAWING, Shah, Kale, Patki

B.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID

Semester-III

3-Credits=45 Lectures

Paper Title: History of interior-I

Paper No. 19: SC2305T

1. Significance of Furniture
2. Prehistoric and Indigenous design
3. History of furniture in the Ancient world.
4. History of furniture in the middle ages
5. Furniture development in – Italy, France, England
6. History of the 20th century
 - Eclecticism
7. Neoclassicism
8. Recent directions
 - Late modernism
 - High loch
 - Post modernism
9. Non-European Traditions

B.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID Semester-III

3-Credits=90Lectures

Paper Title: History of interior- Practicals and Visits

Paper No.20 : SC2306T

Making Complete set of drawings , photographs ,site visits

1. Case study of single room project and analysing them according to the material used and the design for residential building
2. Case study of two roomed building project and analysing them according to the material used and the design for residential building
3. Case study of complete building project and analysing them according to the material used and the design residential building
4. Case study of complete building project and analysing them according to the material used and the design public building

B.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID

Semester-III

3-Credits=90 Lectures

Paper Title: TECHNICAL SKILLS-

Paper No.21 : SC2307P

A.

- Partitions : Single skin and double skin, Traditional and Innovative with composite materials
- False Ceiling : In plaster of paris, other innovative materials, construction terminology and details.
- Paneling & Cladding : Timber framed with building board paneling, Stone for paneling and cladding, cladding with other innovative materials.
- Door : Rolling shutter, Collapsible door, Sliding/Folding/revolving/pivoted door, Innovative door designs.
- Mezzanine : Timber flooring, composite materials, construction and details,
- Staircase : Innovative composite material staircases for interior.
- Introduction of Lift and escalators (technology)

B. Materials

- Paints and varnishes
- Ceramic products
- Upholstery/ curtains/carpets
- Drapery and its fixing types / types of venation blinds
- P. V. C. floorings, rexine, plastic
- Thermal and sound insulation materials.

Contents :

- Sanitation : Sanitary fittings, and fixing methods, different materials, different drawings, systems and disposal methods, sanitary layout of different interior schemes.
- Water supply : Different materials and fittings, Hot and cold water supply and its techniques underground and overhead tanks, water supply layouts of different interior schemes.
- Electrification : Light, lighting design, light sources and listeners, natural light, artificial light, Electronic communication wiring. Generator / battery backup system, graphical symbols of electrical layout.
- Fire Protection : Definition, structural fire precaution, rules, fire resistance, fire fighting, equipments and detection alarms, sprinklers etc. Fire resisting, retarding materials, means of escape, staircase lifts.

B.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID Semester-IV 4-Credits=60 Lectures
PaperTitle: Business Statistics PaperNo. 22: GC401T

Unit-1 Introduction to Statistics: 10 L

Meaning Definition, Scope and importance of statistics, Limitations to statistics, Primary and secondary data, Methods of collecting primary data Sources of secondary Data. Statistical methods Vs. Experimental Methods.

Unit- 2 Measures of Central Tendency: 15 L

Introduction, Definition, types of average mean, median mode Computation of above measures in discrete series, Continuous series and cumulative Frequency distribution (less than, More than)

Unit -3: Measures of Dispersion and Skewness: 20 L

- a) Dispersion: Introduction Definition, Objectives of Measuring Dispersion, Mean Deviation and Coefficient, Standard Deviation Its Coefficient with Covariance.
- b) Skewness: Introduction, Definition, Objectives of Skewness, Measures of Skewness. Karl Pearson's Coefficient of skewness.

Unit-4: Correlation: 15 L

Meaning of Correlation, Definition of Correlation, Types of Correlation, Karl Pearson's Coefficient of Correlation, Computation of Probable Error.

Reference Books:

1. Elementary Statistical Methods: Dr. S.P. Gupta, Sultan Chand & Sons.
2. Fundamentals of Statistics: D.N. Elhance, et.al, Kitab Mahal.
3. Statistics (Theory, Methods & Application): Dr. D.C. Sancheti, V.K. Kapoor, Sultan Chand & Sons.
4. Fundamental of Statistics – Dr. D.N. Elhance
5. Statistical Methods Dr. Sancheti and Kapoor
6. Statistical Methods – Dr. S.P.s Gupta
7. Problems in Statistics – Dr. Y.R. Mahajan

B.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID
PaperTitle: Industrial Psychology

Semester-IV

4-Credits=60 Lectures

PaperNo. 23: GC402T

1. **Introduction:** - Meaning & the Scope of Industrial Psychology, Functions & Activities, Limitations & the Unique aspects of Industrial Psychology. **15 L**

2. **Individual Differences in Behavior:** - Factor associated with differences in behavior individual versus situational variables, Importance of individual differences in jobs, The Effects of training upon individual differences, the basis of individual differences. **15 L**

3. **Leadership:** - The need for Leadership, Approaches to studying Leadership, Functions of Leader, Types of Leaders (Behavioral & Contingency Theories of Leadership) **15 L**

4. **Motivation:** - Concept of Motivation, Motivation Theories (Maslow's Need Hierarchy Theory and Herzberg's Two-Factor Theory, Theory 'X' & Theory 'Y') **15 L**

Books Recommended: -

Industrial Psychology — by M.L. Blums, J.C. Naylor

— by P.K. Ghosh

— by Norman R.F. Maier

Management & Organizations Behaviour— by Paul Hersey & Ken Blanchard

Essentials of Management— by Paul Hersey & Ken Blanchard

Principal and Practice of Management— by L.M. Prasad

Human Behavior at Work— by Kaith Devis

Organizational Behavior— by Robbins

B.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID
Paper Title: E - Commerce

Semester-IV

4-Credits=60 Lectures
Paper No. 24: GC403T

Unit-I

15 L

Introduction, IT and business, E-commerce: Concepts, Benefits of E-Commerce; Types of E-Commerce, Advantages and Disadvantage of E-commerce, Electronic Communication, PCs and Networking, E-mail, Internet and intranets. EDI to E-commerce, EDI, UN/EDIFACT.

Unit-II

15L

Concerns for E-commerce Growth, Internet bandwidth, Technical issues, Security issues, Legal issues. Roadmap of e-commerce in India.

Security Technologies: Encryption, Symmetric key Encryption, Public key encryption, Public key encryption using digital Signatures. Hashing techniques, Certification and key Distribution.

Unit-III

15 L

The elements of E-commerce. SSL-Secure Socket Layer, SET-Secure Electronic Transaction Protocol for Credit card payment, E-Cash, E-Cheque, Smart cards. Electronic Payment System: Digital Cash, Digital Wallets, Digital checking payment systems, Electronic Billing, Credit Card Based Electronic Payment Systems, Risks regarding Electronic Payment Systems.

Unit- IV

15 L

E-Marketing: The scope of E-Marketing, Internet Marketing Techniques, Online Marketing; Advantages of Online Marketing.

Textbook:

1. E-Commerce: The Cutting Edge of Business, Kamlesh K. Bajaj & Debjani Nag, Tata McGraw Hill.
2. E- Commerce Strategy , Technologies and Applications, David Whiteley, McGraw Hill Edition

Reference Books:

1. E- Security, Electronic Authentication and Information Systems Security Sundeep Oberoi, TMG
2. E-Commerce Concepts, Models , Strategies by - G.S.V Murthy.

3.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID Semester-IV 3-Credits=45 Lectures

Paper Title: - WORKING DRAWING : Paper No. 25: SC24041

- Examination Tender documents, contract documents, specialized services, and execution procedure in respect of the Design problem developed under working drawing. 15L

- Reports, notes and proceedings of business, meetings, appreciative writing. 15L

• Knowledge of insurance requirements, tax liabilities and valuations of interior schemes.

- Accounts and book keeping and tax liabilities for a practicing interior designer 15L

I.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID Semester-IV

3-Credits=45 Lectures

Paper Title: computer ii CAD

Paper No.26 : SC240 5T

- Microsoft Windows
- Introduction to windows used and importance.
- Comparison with DOS application
- Use of pointing device style/types
- Parts of windows
- Concept of tab work in windows
- Concept of data interchange

• CAD and its Advanced Application

- Creating and organizing 2D drawings
- All 2D dimensional drawing commands
- All 2D dimensional edit commands
- Inquiry commands
- Settings for drawing
- Concept of layers, line types
- Dimension
- Drawing and different scales
- Introduction to block and its applications.
- Text and fonts
- Out put of the drawing through printers or plotters (Print :Plot)
- Different setting of drawing and mode etc.
- Hatch, its patterns

B. Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID

Semester-IV

3-Credits=90 Lectures

Paper Title: computer II Practicals

Paper No.27 : SC2406P

- Drawing with the use of above commands are expected as a sessional work
- AutoCAD and its Advance commands
- Application of block and concept of symbols library
- Dimensions types and variables
- Attributes
- Data extraction
- All display command
- Concept of surface development
- 3 dimensional drawings
- Slides
- Script file and its applications
- Shading and rendering
- Introduction to AME

- Introduction of other drafting and presentation softwares like Auto Architect, Home Architect, Auto Desk, Arch CAD, Auto Lisp, Auto Shade, 3D Home, Corel draw, 3D Studio, Paintbrush, and their applications.
- 3D presentation drawings (Rendered image) with the use of above softwares shall be done as a sessional work.

B.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID

Semester-IV

3-Credits=90 Lectures

Paper Title: Market Survey

Paper No.28 : SC240719

Market Survey :

- 90 lectures for field work & Studio
- False ceiling material
- Paints
- Upholstery
- Accessories
- Miscellaneous items

- Study of different material available in the market and its mode of measurements, rates, physical and chemical properties.

Case Study :

- Case study Report and photographs of interior design – II problem

B.Voc. Architectural Planning and Interior Designing



B.Voc.
(Architectural Planning and Interior Design)
Semester - V & VI

B.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID
PaperTitle: Campus to Corporate

Semester-V

4-Credits=60 Lectures
PaperNo. 29: GC501T

Unit-I 20 L

Business Etiquettes,

Etiquette Starts on the Phone, No Solicitation

Personal and Mass Emailing,

Unit-II 20 L

Confidentiality and the Use of Company Funds and Equipment, Employee Theft – Though Shalt
Not Steal, Dressing for work

Unit-III 20 L

Nepotism in the Workplace, Disturbances, Insensitivity and Discrimination, Office Bullying,
Entertaining Customer

References

Office Etiquette: The Unspoken Rules in the Workplace by Sonja L. Traxler

B.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID

Semester-V

4-Credits=60 Lectures

Paper Title: Entrepreneurship Development

Paper No. 30: GC502T

Unit I : Entrepreneurial Development Perspective

15 L

2. Evolution of the concept of Entrepreneur, Concepts of Entrepreneurship Development, Entrepreneur Vs. Entrepreneur, Entrepreneur Vs. Entrepreneurship, Entrepreneur Vs. Manager, Attributes and Characteristics of a successful Entrepreneur, Role of Entrepreneur in development of Indian economy

Unit II Business organizations: - Meaning, types of business organization – Sole

15 L

proprietorship, Partnership, Co-operative Society, Joint-Stock Company, Selection of an appropriate form of business organization.

Unit III Creating Entrepreneurial Venture. Business Planning Process. Environmental Analysis - Search and Scanning Identifying problems and opportunities, Defining Business Idea.

15 L

Unit IV : Project Identification & Report :-

15 L

– concept of project - project identification – formulation – appraisal-selection implementation and management – preparation of project report

REFERENCE BOOKS

- 1) Vasant Desai : "The Dynamics of Entrepreneurial Development and Management, Himalaya Publishing House, Mumbai, Sixth Edition, 2010.
- 2) Khanka S. S., "Entrepreneurial Development", Chand and Company Ltd, New Delhi, Third Revised Edition, 2001.
- 3) Prof. E. Gordon & K. Natarajan, "Entrepreneurship Development"
- 4) N.P. Singh, "Entrepreneurship Development", - Theories & Practices.
- 5) M. Gangadhar Rao, "Entrepreneurship & Entertainment Development"

B.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID

Semester-V

4-Credits=60 Lectures

PaperTitle: Business Economics

PaperNo. 31: GC503T

- 1) **Introduction:-** Meaning, Nature and Scope of Business Economics, Micro and Macro economics, its features and Importance. **10 L.**
- 2) **Demand Analysis:-** Introduction, Concept of Demand, individual Demand market Demand, Factors affecting on Demand Types of Demand, Law of Demand, **15 L.**
- 3) **Elasticity of Demand:-** Introduction, Concept ,types of elasticity of demand ,types of Price elasticity of Demand, factors Determining Elasticity of Demand, significance of Price Elasticity of Demand. **15 L.**
- 4) **Producers Behavior :-** Introduction Concepts of Total Output, Stock and supply, Supply schedule, Determinants of market supply Law of supply, change in supply, Variation in supply, Concept of Elasticity of Supply and Types of Elasticity of Supply Measurement Determinants of Elasticity of Supply. Concepts of Cost, Total cost, Average cost and Marginal Cost. **20 L.**

Recommended Books :

1. Managerial Economics - Analysis, Problems and Cases, P. L. Mehta, Sultan Chand and Sons, New Delhi.
2. Managerial Economics - Varshney and Maheshwari, Sultan Chand and Sons, New Delhi.
3. Managerial Economics - D. Salvatore, McGraw Hill, New Delhi.
4. Managerial Economics - Peterson and Lewis, Prentice Hall, New Delhi
5. Managerial Economics - G. S. Gupta , T M H, New Delhi.
6. Managerial Economics - Mote, Paul and Gupta, T M H, New Delhi.
7. Managerial Economics — D. C. Hague, Longmans.
8. Managerial Economics - Joel Dean, Prentice Hall, USA.
9. Managerial Economics - H L Ahuja, S Chand & Co. New Delhi.
10. A study of Managerial Economics – D.Gopalkrishna
11. Managerial Economics – D.C.Hauge
12. Managerial Economics – Reckie and Crooke
13. Managerial Economics, 4th Ed. – Craig Peterson

B.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID **Semester-V**

3-Credits=45 Lectures

Paper Title: Interior design IV

Paper No.32 : SC2504T

Contents :

Two Interior Design problems of complete species with creative outlook.
(Five star hotels, resorts, hospitals, theatres, Corporate offices, computer centers, electronic offices, Industrial administrator building interiors etc.)

Drawings include – presentation drawings, Enlarge detail drawings, services layout drawings.

Area of Interior project should be @ 500.00 sq.mt.

CONTEMPORARY INTERIORS :

Contents :

- Introduction
- Design basics
- Historical background
- Technology of furniture
- Design
- Contemporary furniture
- The future

B.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID Semester-V

3-Credits=45 Lectures

Paper Title:Graphical Presentation iv

Paper No.33 : SC250 5T

1. One hall scheme of residential interior having maximum types of residential activities (up to two bedroom unit).
2. One commercial interior problems having area from 100 to 200 sq.mt.
3. One time problem of commercial interior having area from 50 to 100 sq. mt.

B.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID **Semester-V**

3-Credits=90 Lectures

Paper Title:Practical on contemporary Design

Paper No.34 : SC2506P

Making complete set of public buildings

CONTEMPORARY INTERIORS :

Contents :

- Introduction
- Design basics
- Historical background
- Technology of furniture
- Design
- Contemporary furniture
- The future

B.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID Semester-V

3-Credits=90 Lectures

Paper Title: Practical on contemporary Design

Paper No.35 : SC2507P

Contents :

Any one interior project completed within last 10 years and having area minimum 100.00 sq. mt.

of any type should be studied thoroughly and the report should include

1. All drawings
2. Photographs
3. Sketches
4. Analysis
 - of functions
 - of material and technique
 - of style
5. Alternative solutions

OR

1. Detail study including case study of any element of interior with analysis.
e.g. furniture piece, accessories, colour, elevations, flooring etc.

2. Alternative Solutions

B. Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID Semester-VI
Paper Title: Research Methodology

4-Credits=60 Lectures
Paper No. 36: GC601T

Unit- I

20L

Concept of Research – objectives, Motivation, Importance & types of research

Scientific method – Steps involved in a process of research.

Experimental method- Definition, characteristic, and steps involved, difficulties in experimental method, advantages & limitations.

Unit-II

20L

Research Problem

Meaning of research problems, sources of research problems criteria/ characteristics of a good research problems, errors in research problems.

Hypothesis formation

Unit-III

20L

Sources of data – Primary data – advantages & disadvantages –sources of primary data, Secondary data – advantages & disadvantages- sources of secondary data. Observation – meaning & characteristics, types , advantages & disadvantages

Information Technology And Library Resources

The internet and world wide web, internet resources for chemistry, using spreadsheets, word processors, databases and other packages, finding and citing information

Unit –IV :- Communicating Information

20L

General aspects of scientific writing, writing essays, reporting practical and project work, writing literature surveys and reviews, organizing a poster display, giving an oral presentation examinations

Reference Books:-

Research Methodology, Methods & Techniques by C.R. Kothari.

B.Voc. Architectural Planning and Interior Designing.

Course : B. Voc. in APID

Semester-VI

4-Credits=60 Lectures

Paper Title: Human Resource Management

Paper No. 37: GC602T

Unit I - Introduction to Human Resource Management - Concept, Nature, Scope, Significance, Objectives and Functions of HRM. **15 L**

Unit II - Human Resource Planning (HRP) - Meaning and need for Human resource Planning - Process of HRP - Factors affecting HRP. -Job Analysis -Recruitment and selection - Meaning, Sources of recruitment **15 L**

Unit III - Employee Training - Meaning and need for training - Steps in training - Methods of Training - Impediments of effective training **15 L**

Unit IV - Performance Appraisal and Merit Rating - Meaning and purpose of performance appraisal - Methods of performance appraisal - Ethics in performance appraisal - Merit Rating - Meaning, Benefits of Merit Rating - Difference between performance appraisal and merit rating **15 L**

Books Recommended: -

Principles of Personnel Management — by Edwin B Philpo

Management of Organization Behaviour — by Paul Harsey K. Blanchard

Personnel/Human Resource Management — Decenza & David

Human Resource Management- P.Subbarao

Human Resource Management: R.S.Triwedi

Human Resource Management — by C.V. Subramaniam

K Ashwathappa : Human Resource Management, Tata McGraw Hill, New Delhi

I.Voc. Architectural Planning and Interior Designing

Course : B. Voc. in APID

Semester-VI

4-Credits=60 Lectures

Paper Title: Principles of Marketing

Paper No. 38: GC6031

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1. **Marketing Concepts** – Approaches to Marketing – Core concepts of marketing – Marketing Process – Functions of Marketing **15 L**
 2. **Marketing Environment**– The changing marketing environment – Analyzing, needs and trends in Macro Environment and Micro Environment **15 L**
 3. **Market Segmentation** – Bases for market segmentation of consumer goods, industrial goods and services – Market Targeting and positioning strategies Marketing Mix – Four P's – Its significance in the competitive environment **15 L**
 4. **New Product Decision Process** – Types of new products Product and Product Line – Product Mix – Product Life Cycle – Managing the product in Product Life Cycle, Test Marketing of a new product, Packaging – Purpose, Types and New Trends in packaging . **15 L**

Reference Books Recommended

1. Marketing Special Indian Edition- Dhruv Grewal, Michael Levy
2. Marketing - Stanton,,Michael Etzel, Walker(Tata)
3. Marketing Management - V.S.Ramaswamy and S.Namakumari
4. Principles of Marketing 9th Edition - Philip Kotler and Gary Armstrong
5. Marketing - Bovee and John Thill
6. Marketing Models - Lilien & Kotler & Moorthy
7. Case Studies in Marketing – Indian context - R.Srinivas
8. Marketing Management Text And Cases in Indian Context-Dr.K.Karunakaran
9. Marketing Management Text and Cases-Biplab Bose
10. Marketing Management -S.A. Sherlekar13th Edition
11. Product Management S.A.Chunawala
12. Marketing Management - Philip Kotler

B.Voc. Architectural Planning and Interior Designing

Course: B. Voc. in APID

Semester - VI

6 - Credits

Paper Title:- Seminar I, II, III.

Paper No. 39: SC3604T

Seminar based on Paper SC2504 & Paper SC2505
Inplant Training

Course: B. Voc. in APID

Semester - VI

12 - Credits

Paper Title:- Project / Dissertation.

Paper No. 40: SC3605P

Dissertation based on Field training / Inplant training