

University of Rajasthan Jaipur

SYLLABUS

B.Voc. in Building Construction

Technology

(Semester Scheme)

2023

Dy. Registrar (Acad.)
University of Rajasthan
O JAIPUR

TITLE OF THE PROGRAMME BACHELOR OF VOCATION IN BUILDING CONSTRUCTION TECHNOLOGY

Preamble

Building Construction activity is an integral part of nation's infrastructure, urban and industrial development. Construction industry is vital in socio-economic development and also generates substantial employment and provides a growth impetus to other sectors through backward and forward the larges. Building Construction Technology deals with design, construction, execution work and maintenance of hospitals, schools, townships, offices, houses and other buildings; urban infrastructure (including water supply, sewerage, drainage). Requirement of skilled personnel/ technicians in construction engineering works is growing day to day. Construction industries, public & private entrepreneurs, government organizations, builders. Real Estate owners are in need of technicians in this area. Hence this course has several advantages that will enables student to get engaged in building construction area of civil engineering.

Objectives of course

The B. Voc in Building Construction Technology aims at providing the expertise needed to effectively lead a building construction project and work with industry. It aims at providing over all technical and execution proficiency, the industrial working exposure, and the entrepreneurial skills for success in this rapidly-evolving industry.

The state that teaches you how to integrate multiple professional requirements for bringing building construction projects to successful execution, completion, including building construction, planning and drafting, estimating, cost control, new technologies, methods of surveying & advanced surveying, concrete technology, geo-technology, structural design, CAD, water supply management & sanitation, project planning, erecting plans-layout, scheduling & negotiation, and labour management etc. The coursework aims at managing various types of contractual relationships governing the owner, the contractor, subcontractors, consultants, labour and architects, as well as the essential skills of bidding, negotiating, handling disputes and claims. To train the students to gear up to employment opportunities in Building construction

Solution To

1 P

industry in Private & Public sectors, state and central public works departments and other Government undertakings, Self-employment ventures/ Civil Engineering Contractor etc.

Program Structure

The course titled as B.Voc. (Building Construction Technology) is proposed with concise modular structure of syllabus that gives exit option after every year with employable skill at the end of each module. The three modules are as under:

| | Duration | Corresponding NSQF level |
|------------------|----------|--------------------------|
| Diplottik | 1 year | 5 - |
| Advanced Diploma | 2 years | 6 |
| B. Voc. Degree | 3 years | 7 |

All students should undergo concise modular structure program of 180 hrs duration in each semester for first two semesters along with level-5 regular course (i.e. first year of B.Voc). The credits earned are of qualifying nature and should be completed within four semesters (2 years) for obtaining Diploma/Advanced Diploma/B.Voc Degree, as a pre-requisite.

Program Outcomes

1. Diploma in Building Construction Technology

Outcome: Student shall have acquired adequate skills to assist and work as drafts man, superfect site engineer. After successful completion of this module and some additional practice the student should have attained

- > Skill in preparing, reading and interpreting drawing pertaining to Civil engineering and allied works
- > Understanding the use of various types of construction materials, their characteristics and suitability in construction sector
- Competencies in estimating and costing and contracting of civil works including measurement and billing

Dy. Registrar
(Academic)
University of Rajasthan
(ACAIPUR

- > Knowledge of appropriate attitude and values and awareness regarding ecology and environment engineering
- > Skill in using computers in the field of Building Construction work

2. Advanced Diploma in Building Construction Technology

Outcome: Student shall have acquired adequate skills to work as drafts man, supervisor and site engineer. Student can work as an assistant to mix designer, surveyor, project manager and design engineer. After successful completion of this module and some additional practice the student should be used.

- operations for different types of civil works
- > Analytical ability and understanding of behaviour of various types of soils and their uses for civil works
- > Ability to perform surveying works for various construction works & exposure to various digital equipment
- Analysis and design of simple structural elements in concrete and steel and skill of preparing and reading detailed structural drawings
- Awareness regarding facilities and support system to promote entrepreneurship development
- Ability to use the knowledge of building services in preparing computer based drawings

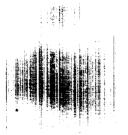
3. Bachelor of Vocation in Building Construction Technology

Outcome: Student shall have acquired adequate skills to work as surveyor, drafts man, supervisor, site engineer, mix designer, Technical Report writer, project manager and design engineer. Further it opens the gates to further vertical mobility in career. After successful completion of this module and some additional practice the student should be able to take up his own self-employment ventures/contracts/projects

Ability to supervise various civil works such as buildings, industrial structures etc.

Dy Registraf
(Academic)
University of Rajasthan
JAIPUR

- > Application of knowledge of planning, scheduling, controlling and skill of advanced surveying in supervising various construction projects
- > Skill in managing construction materials, equipment, manpower and cash flow
- > Competencies in maintenance, repairs and upkeep of building
- Knowledge of principles of water supply and sanitary in building
- Rigerous training in enhancing communication skills, technical English and interpersonal relations and skills in communication
- > transfers, regarding hazards, safety measures at construction site
- Awareness about Contract laws & regulation, Disaster Management, waste management
- > Exposure to various computation skills such as Civil engineering design and drafting software
- > Ability in preparing computer based drawings



Dy Registrar
(Academic)
University of Rajasthan
Evaluation

Δ

Preamble

It has been a long felt necessity to align higher education with the emerging needs of the economy so as to ensure that the graduates of higher education system have adequate knowledge and skills for employment and entrepreneurship. The higher education system has to incorporate the requirements of various industries in its curriculum, in an innovative and flexible manner while developing a holistic and well-groomed graduate. 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 their as Diploma/Advanced Diploma under the NSQF (National Skills Qualifications

Programs

Vocational, or skills-based, education is becoming more and more significant in today's perspective as industry expecting new employees to have all the practical skills they need to start work. Keeping in view the demands of the industry and to provide flexible options for students as desired by UGC the Deen Dayal Upadhyay KAUSHAL Kendra, Jamdoli Jaipur have launched Bachelor of Vocation courses in 2 sectors namely during academic year 2016-17.

- 1. Interior Design
- 2. Building Construction Technology

These programmes aim to build individual capacities and train persons with adequate employability skills. The programme structure attempts to blend appropriate technical knowledge and skills, personal and professional skills and substantive 'hands-on' and field / site experience required in the trade.

The program structure:

Levels of Awards:

The certification levels will lead to Diploma/Advanced Diploma/B. Voc. Degree in one or more vocational areas and will be offered under the aegis of the University.

| Award | Duration | Corresponding NSQF level |
|----------------|----------|--------------------------|
| | 1 year | 5 |
| Advalatiploma | 2 years | 6 |
| B. Voc. Degree | 3 years | 7 |

Duration: 6 Semesters (3 years). This three year full time programme is divided into six semesters, each of 15 weeks including assessment. In addition all students are expected to undergo industrial training / project work for 4-8 weeks every semester that may continue partly during summer / winter breaks.

Eligibility: Entry to First Year - 12th pass in any discipline;

Lateral entry may be offered in the second year and third year of the programme to external candidates who have undertaken courses deemed to be equivalent to the 1st year and 2nd year programme respectively and are able to qualify the skill equivalency test organized by the college/institute offering the arogramme.

EXAMINATION SCHEME AND PATTERN

CREDIT CALCULATION

The following formula is used for conversion of time into credit hours.

- One Credit would mean equivalent of 14-15 periods of 60 minutes each for theory or 28-30 hrs of workshops/labs;
- For industrial visit, the credit weightage for equivalent hours shall be 50% of that for lectures workshops:
- 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/workshops.

| | 71 | | i | |
|---|---------|--------|----------|------|
| COUR | CITY OF | TINIT. | CHARLE ! | T) I |
| * | | I KI | | Kr. |
| | | | | |

| | Skill Component Credits | General Education Credits | Normal calendar duration | Exit Points / Awards |
|--------|-------------------------------|---------------------------------|--------------------------------|-------------------------|
| Year 3 | 36 | 24 | Six Semesters | B.Voc. |
| Year 2 | 36 | 24 | Four semesters | Advanced Diploma |
| Year 1 | 36 | 24 | Two semesters | Diploma |
| TOTAL | 108 | 72 | | · |

As per the UGC guidelines, there are multiple exit point for a candidate admitted in this course. If he/she is completing all the six semester successfully, he/she will get B. Voc degree in Building Construction Technology. If he/she is completing the first four semesters successfully, he/she will get an advanced diploma in Building Construction Technology. If he/she is completing the first two semesters he/she will get a diploma in Building Construction Technology.

DISTRIBUTION OF MARKS

| Sem. | | Subject | General/ Skill | Theory/ Practical | Credit | Marks ESE | Marks CE | Total Marks |
|------|---------|--|-------------------|----------------------|--------|--------------|-------------|----------------|
| | BCT-0 | Basic Of Civil Construction | Skill | Т | 3 | 60 | 40 | 100 |
| | BCT-02 | Construction Materials & Application | Skill | Τ. | 3 | 60 | 40 | 100 |
| | BCT-03 | Construction Economics | Skill | T | 2 | 60 | 40 | 100 |
| ONE | BCT-04 | Management Theory & Organization Behavior | Skill | 7 | 2 | 60 | 40 | 100 |
| | OSL - 1 | Onsite Learning / Project / Lab | Skill | P | 8 | 60 | 40 | 100 |
| | BCT-05 | General Education-I | General - | Т | 12 | 60 | 40 | 100 |
| | , | TOTAL | | * | 30 | 360 | 240 | 600 |

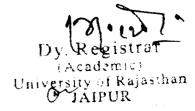
Dy Registrar
(Academic)
University of Rajasthan

7

| Sem. | Code No | Subject | General/ Skill | Theory/ Practical | Credit | Marks ESE | Marks CE | Total Marks |
|------|------------|-------------------------------------|-------------------|----------------------|----------|--------------|-------------|----------------|
| | BCT-06 | Civil Auto CAD-I | Skill | T | 2 | 60 | 40 | 100 |
| | BCT-07 | Basic Mathematics | Skill | T | 3 | 60 | 40 | 100 |
| | BCT-08 | Structure | Skill | Т | 3 | 60 | 40 | 100 |
| TWO | BCT-09 | Construction Personal Management | Skill | Т | 2 | 60 | 40 | 100 |
| | OSL-2 | Onsite Learning Project Lab | Skill | . P | 8 | 60 | . 40 | 100 |
| | BC1-10 | General Education-II | General | Т | 12 | 60 | 40 | 100 |
| 1 | | TOTAL | | | 30 | 360 | 240 | 600 |

| | | | | | · | | <u></u> | |
|--------------|---|---|-------------------|---|--------|--------------|-------------|----------------|
| Sem. | Code No | Subject | General/ Skill | Theory/ Practical | Credit | Marks ESE | Marks CE | Total Marks |
| | BCT-11 | Construction Marketing Management | Skill | т | 2 | 60 | 40 | 100 |
| | BCT-12 | Construction Safety Management | Skill | Т | 2 | 60 | 40 | 100 |
| THR | ВСТ-13 | Civil AutoCAD-II | Skill | T | 3 | 60 | 40 | 100 |
| EE | BCT-14 | Construction Materials & Application-II | Skill | Т | 3 | 60 | 40 | 100 |
| | OSL 3 | Onsite Learning / Project / Lab | Skill - | Р | 8 | 60 | 40 | 100 |
| | BCT-15 | General Education-III | General | Ţ | 12 | 60 | 40 | 100 |
| | and a second and the | TOTAL | 4 | And a series of the series of | 30 | 360 | 240 | 600 |

| Sem. | | Subject | General/ Skill | Theory/ Practical | Credit | Marks ESE | Marks CE | Total Marks . |
|---|---------|-------------------------------------|-------------------|----------------------|--|--------------|-------------|------------------|
| | | Building Management System | Skill | Т | The state of the s | . 60 | 40 | 100 |
| | BCT-17 | Civil Survey | Skill | Т | 4 | 60 | 40 | 100 |
| FOU | BCT-18 | Construction Financial Accounting | Skill | Т | 2 | 60 | 40 | 100 |
| R | BCT-19 | Advanced Construction Technology | Skill | Т | 3 | 60 | 40 | 100 |
| T.C. T. | OSL – 4 | Onsite Learning / Project / Lab | Skill | P | 8 | 60 | 40 | 100 |
| | BCT-20 | General Education-IV | General | τ | 12 | 60 | 40 | 100 |





| Sem. | Code No | Subject | General/ Skill | Theory/ Practical | Credit | Marks ESE | Marks CE | Total Marks |
|------|------------|---|-------------------|----------------------|--------|--------------|-------------|----------------|
| | BCT-21 | Project Estimation And Cost Analysis | Skill | Ť | 2 | 60 | 40 | 60 |
| | BCT-22 | Material Procurement & Store Management | Skill | T . | 2 | 60 | 40 | 60 |
| FIVE | BCT-23 | Infrastructure Development & Project Management | Skill | | 2 | 60 | 40 | 60 |
| IIVL | BCT-24 | Construction Quality Management | Skili | , T. | 1 | 60 | 40 | 60 |
| | OSL - 5 | Onsite Learning / Project Lab | Skill | P | . 11 | 60 | 40 | 60 |
| | BOUR | General Education-V | General | Т | 12 | 60 | 40 | 60 |
| | | TOTAL | • | | 30 | 360 | 240 | 600 |

| Sem. | Code No | Subject | General/ Skill | Theory/ Practical | Credit | Marks ESE | Marks CE | Total Marks |
|----------------------------------|------------|--|-------------------|----------------------|--------|--------------|-------------|----------------|
| garaganga at andrews will differ | BCT-26 | Construction & International Contracting | Skill | Т | 2 | 60 | 40 | 100 |
| | BCT-27 | Entrepreneurship Development Programme | Skill | Т | 1 | 60 | 40 | 100 |
| SIX | ВСТ-28 | Project Management Technique | Skill | Т | 2 | 60 | 40 | 100 |
| | BCT-29 | Green Technology | Skill | T | 1 | 60 | 40 | 100 |
| | OSL - 6 | Onsite Learning / Project / Lab | Skill | P | 12 | 60 | 40 | 100 |
| | BCT-30 | General Education-VI | General | Т | 12 | 60 | 40 | 100 |
| | | TOTAL | | | 30 | 360 | 240 | 600 |

| | | | | | |
|--------------|-------------|-----|-------------|----------|------|
| ALC: NAME OF | GRAND TOTAL | 180 | 2160 | 1440 | 3600 |
| į | | | <u> </u> | <u> </u> | ! |

EVALUATION ASSESSMENT

There shall be Continuous Evaluation (CE) and End Semester Evaluation (ESE) for B. Voc (Building Construction Technology) course. CE is based on specific components viz., attendance, tests, assignments and seminars. The CE shall carry a weightage of 40 Per cent and ESE shall carry a weightage of 60 per cent.

1. CONTINUOUS EVALUATION (CE)

Dy. Registrar
(Academic)
Uneversity of Rujasthan
(JAIPUR

9

The CE component shall be of 40% weight distributed in three sub-component as: (i) Attendance – 10%, (ii) assignment / seminar – 10% and mid-course tests - 20%.

• Attendance (10 Marks)

The minimum number of hours of lectures, tutorials, seminars, or practicals which a student shall be required to attend for eligibility to appear at the end semester examination shall not be less than 75 per cent of the total number of lectures, tutorials, seminars or practical sessions. Internships, study tours and soft skill and personality development programmes are part of the course and students must attend in these activities to complete a semester.

nments/ Seminars (10 Marks)

Each student shall be required to do one assignment for each course.

Mid-Course Tests (20 Marks)

For each course there shall be at least two class tests during a semester. Grades for the test component in CE shall be awarded on the basis of the grades secured for the better of the two class tests.

2. END SEMESTER EVALUATION (ESE)

End Semester Examination of all the courses in all semesters shall be conducted. The durat ion of examination of all courses shall be 3 hours and 60 marks. The end semester examination of the design / project based courses shall be evaluated by viva-voce by expert(s)/ jury in which one will be external examiner.

Paper Pattern

- (1) A question paper will divide in three sections, named Section A, Section B and Section C.
- (2) Section A will be of 10 marks comprising of SIX very short answer questions or concetive type questions of two marks each out of which the student may choose to answer ANY FIVE questions. Section B will of 20 marks comprising of FIVE short questions of five marks each out of which student may choose to answer any FOUR questions. Section C will be of 30 marks comprising of THREE long answer questions (application based) of 15 marks each out of which student may choose to answer any TWO questions.
- (3) The questions should be written both in English & Hindi languages but in case any discrepancy, English version will be followed.
- 3. In individual paper minimum 35% marks in ESE are required to clear a paper. However in aggregate, minimum 40% marks will be required to qualify the exam.
- 4. Wherever practical/lab exam are required, examination will be conducted by a panel of examiner(s) in which one will be external examiner.

Dy. Registrar
(Academic)
University of Rajasthan

- 5. For progressive promotion from one semester to next semester, candidate will have to earn minimum 50% credits provided in that semester.
- 6. The revaluation in individual paper will be permitted as per University of Rajasthan norms.
- 7. The supplementary examination of each paper will be conducted by university as per University of Rajasthan norms. Maximum two additional attempts will be given to clear a paper. If a candidate fails in a paper first attempt chance will be given through supplementary examination. If he she still fails to clear this paper in supplementary exam last chance will be given with main exam of corresponding semester. If he/she still fails to clear this paper in third attempt, he/she will have to repeat the complete semester.
- 8. Maximum duration for the course will be allowed as per University of Rajasthan norms.

GRADING

the large pattern will be followed using UGC Guidelines for B.Voc. on 10 point grading system

LETTER GRADE PERFORMANCE

| RANGE | LETTER GRADE | GRADE POINT |
|--------------|----------------------------|-------------|
| 93 and Above | O (Outstanding) | 10 . |
| 92-85 | A ⁺ (Excellent) | 9 |
| 84-75 | A (Very Good) | 8 |
| 74-65 | B ⁺ (Good) | 7 |
| 64-55 | B (Above Average) | 6 |
| 54-45 | C (Average) | . 5 |
| 44-35 | P (Pass) | 4 |
| Below 35 | F (Fail) | 0 |
| | Ab (Absent) | 0 |

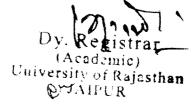
NOTE: In general for both the programmes guidelines issued by UGC as per NSQF (National Skill Oualification Framework) should be followed.

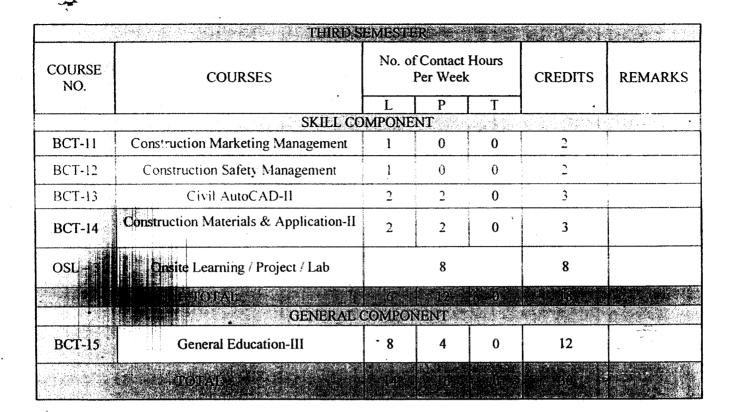
Dy. Registrar
(Academic)
University of Rajasthan
O JAIPUR

Below is the detailed structure for the three year (6 semesters) programme:

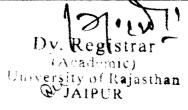
| | FIRSTIS | EMESTI | iR: | | | | | |
|---------------|--|----------------------------------|------|---|---------|--|--|--|
| COURSE NO. | COURSES | No. of Contact Hours Per Week | | | CREDITS | REMARKS | | |
| | | L | P | T | | | | |
| | SKILL CO | OMPONE | NT | | | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | | |
| BCT-01 | Basic Of Civil Construction | 3 | 0 | 0 | 3 | | | |
| BCT-02 | Construction Materials & Application | 2 | 2 | 0 | 3 | | | |
| BCT-03 | Construction Economics | 1 | 0 | 1 | 2 | | | |
| вст | Tabagement Theory & Organization Behavior | 1 | 0 | 0 | 2 | • | | |
| OSL -1.4 | Onsite Learning / Project / Lab | - | 8 | | 8 | | | |
| | LO SUBRIOTANO E MARE | 7 | 100 | | 1878 | | | |
| | GENERAL | COMPO | NENT | | | | | |
| BCT-05 | General Education-I | 8 | 4 | O | 12 | | | |
| | A CONTRACTOR OF THE STATE OF TH | 1,5 | | | | | | |

| | SECOND | SEMESTI | ≅R | | | |
|------------------------------|----------------------------------|----------------------------------|--------|------------|--------------------|---|
| COURSE NO. | COURSES | No. of Contact Hours Per Week | | | CREDITS | REMARKS |
| | | L | P | T | | |
| 141 | SKILL CO | MPONE | VT . | ta ikuliya | i Sala de Robert 👫 | |
| BCT-06 | Civil Auto CAD-I | 2 | 2 | 0 | 2 | |
| BCT-T | Basic Mathematics | 3 | 0 | 0 | 3 | |
| BCT | Structure | l | 0 | 1 | 3 | · |
| BCT-09 | Construction Personal Management | 1 | 0 | 0 | 2 | |
| OSL-2 | Onsite Learning / Project / Lab | | 8 | • | 8 | |
| 790 | ALE (SEE 1800 A) | | | | San Way | aringha wina an ing Kanara Satanganang managan |
| ं स्कर्म संदर्भ संदर्भ | GENERAL (| COMPON | ENT | | T | |
| BCT-10 | General Education-II | 8 | 4 | 0 | 12 | NOTE TO STATE AND A STATE AND |
| | TOTAL WA | 15. | Z 14 S | | 30. | |
| | | | | | | |





| | FOURTH | SEMESTI | ∃R | 100 | | Secretaria |
|---------------|------------------------------------|-----------|----------------------------------|----------------|-----|--|
| COURSE NO. | COURSES | | No. of Contact Hours Per Week | | | REMARKS |
| | | | P | T [*] | | |
| | SKILLEC | MPONE | VT | | | TOTAL SECTION AND ADDRESS OF THE PARTY OF TH |
| BCT-16 | Building Management System | 1 | 0 | 0 | 1 | 100 mg / 100 |
| BC | Civil Survey | 2 | 2 | 0 | 4 | |
| BCT-18 | . unstruction Financial Accounting | 1 | 0 | 1 | 2 | • |
| | Advanced Construction Technology | 2 | 0 | 0 | 3 | |
| OSL - 4 | Onsite Learning / Project / Lab | • | 9 | | 8 | |
| | SESUBALOTIAN CARE CARE | | | | 187 | |
| | GENERAL | COMPON | ENT | Varia di | | |
| BCT-20 | General Education-IV | 8 | 4 | 0 | 12 | |
| | TOTAL approximation in the second | e catalan | 48145/64 | 1.2 | 30 | |



| | THORES | MESTE | R | | | |
|-----------------|--|----------------------------------|---------------|-------|--------------------|---------|
| COURSE NO. | COURSES | No. of Contact Hours Per Week | | | CREDITS | REMARKS |
| | | L | P | Т | | |
| | SKILL CO | MPONE | NT | 15144 | | |
| BCT-21 | Project Estimation And Cost Analysis | 2 | 2 | 0 | 2 . | |
| BCT-22 | Material Procurement & Store Management | l | 0 | 0 | 2 | |
| BCT-23 | Infrastructure Development & Project Management | I | 0 | 0 | 2 | |
| BCT-24 | Construction Quality Management | 1 | 0 | 1 | 1 | |
| OSL - 5 | Ousite Learning / Project / Lab | | 10 | | 11 | |
| | HARGEARE GENERALIO | OMPON | 12 es VENT | I. | | |
| BCT-25 | General Education-V | 8 | 4 | 0 | 12 | • |
| months that the | THE LOUISIES IN THE STATE OF TH | | | | Tingare Tingare | ga da d |

| | SIXTH | SEMESTE | ER: | | | |
|---------------|--|----------------------------------|------|---|---------|--------------------------|
| COURSE NO. | COURSES | No. of Contact Hours Per Week | | | CREDITS | REMARKS |
| | • . | L | P | T | | |
| | SKILL C | OMPONE | INT | | | |
| BCT-26 | Construction & International Contracting | 1 | 0 | 1 | 2 | |
| BCT-27 | Entrepreneurship Development Programme | 1 | 0 | 0 | 1 | |
| BCT-28 | Project Management Technique | 1 | 0 | 1 | 2 | |
| вст | Green Technology | 1 | 0 | 0 | 1 | |
| OSL HALL | Dasite Learning / Project / Lab | | 12 | | 12 | |
| | S PERCENTAGE COMPANIES | | | | | |
| | GENERAL | COMPO | VENT | | rui. | |
| BCT-30 | General Education-VI | 8 | 4 | 0 | 12 | • |
| | TOTAL | 100 | 7.75 | | 30. | 5 60 <u>1</u> 5 1 |

NOTE:- * Any guideline issued by Sector Skill Council (SSC's) under NSQF will be included in the Curriculum by the college/institute with intimation to the Rajasthan University.

^{*}College/ Institute shall endeavour to invite distinguished experts to augment learning and/or assessment at all the levels as per program objectives.



FIRST SEMESTER

BCT-01. BASICS OF CIVIL CONSTRUCTION

OBJECTIVES -

- To inculcate the essentials of various Construction activities to the students.
- To provide the students an illustration of the significance of the Construction Profession in satisfying societal needs.

CONTENTS -

eneral introduction to Construction Technology - Introduction to types of buildings,

- introduction to the various terminology of building construction
- Introduction to planning of a building Simple building plan (viz. 1/2/3 BHK)
- Basics of Surveying Principles, Objectives, Horizontal measurements with tapes, Ranging; various types of surveying instruments
- Building construction Foundations, Brick masonry, Roofs, Floors, Decorative finishes, Plastering, Paints and Painting.

REFERENCE BOOKS:

Building Construction
Building Construction

Bindra & Arora. B. C. Punmia

Construction Technology B. L. Gupta (Hindi)

BCT-02, CONSTRUCTION MATERIALS & APPLICATIONS

OBJECTIVES - .

de provide the basic knowledge of various construction materials

- Introduction to various construction materials and their application
 - ✓ Masonry materials Stones and Bricks; source, type and their physical properties
 - ✓ Binding materials Lime and Cement; type and their physical properties
 - ✓ Other materials Sand and Aggregate; classification & physical properties

REFERENCE BOOKS:



Engineering Materials
Building Materials

Rangwala
B. L. Gupta (Hindi)

BCT-03. CONSTRUCTION ECONOMICS

OBJECTIVES -

• To enable the basic knowledge of quantities and their application

CONTENTS -

• Various terminology of economics

Ovantities and their units for the various building component last market rate of materials used in building construction or interior materials

REFERENCE BOOKS:

Estimating and Costing
Estimating and Costing

B. N. Dutta (English & Hindi) Rangwala

BCT-04. MANAGEMENT THEORY & ORGANIZATION BEHAVIOR

OBJECTIVES -

The objective of this paper is to enable the students to understand the multiplicity of
interrelated factors which influence the behavior and performance of people as
members of work organizations.

CONTENTS -

• Terms, Definitions, Concept and Techniques

Motivation in organizations

whiteon of management Thought

edership in organizations

REFERENCE BOOKS:

Organization Behavior

P. Robbins

BCT-05. GENERAL EDUCATION-I

OBJECTIVES -

Dy. Registrar
(Academic)
University of Rajasthan
Control (AIPUR)

• To inculcate in group learning and improve communication skills.

CONTENTS-

• Health and Physical Education – I

Credit-1

Soft Skill

Credit-8

- ✓ English Fluency Development-I
- Building Self Confidence-I
- ✓ Communication Skills-I
- ✓ Attitude Building-I

Presentation Skills-I

mation and Communication Technology:

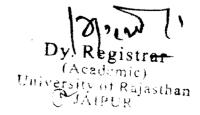
Credit-3

- ✓ Computer: An Introduction
- ✓ Generation of Computers & Types: PC, PC/XT, PC/AT, Main Frame, Super, Lap Top, Pam Top
- ✓ Data Representation:
 - > Bit, Nibble, Byte, Word
 - Number System: Decimal, Binary, Hexadecimal & their Conversions
 - Arithmetic Operations (Addition, Subtraction using Binary Number System)
- ✓ Idea of:
 - Hardware and Software
 - Firmware, Free ware and Human ware
- ✓ Computer Languages and Translators:
 - Machine and Assembly
 - > Translators: Assembler, Interpreter, Compiler
- ✓ Introduction to Computer:
 - Central Processing Unit (CPU)
 - Input/ Out Devices: Keyboard, Mouse (Optical), Digitizer, Scanner, Web Camera, Monitor (CRT, TFT), Printers, Plotters, Bar Code Reader
 - Secondary Storage Devices: Floppy, Hard Disk, CD, DVD, Flash Drive
 - ➤ Block Diagram Showing Interconnection of Computer Parts

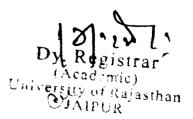
OSL-01. ONSITE LEARNING / PROJECT / LAB

Field Test of Below Materials

✓ Cement



- ✓ Sand
- ✓ Aggregates
- ✓ Bricks
- Setting out of building plan
- Various types of the construction equipment
- Basic engineering drawings
- Types of brick bonds
- Field Visit & Training(Min. 20 Days)





SECOND SEMESTER

BCT-06. CIVIL AUTO CAD-I

OBJECTIVES -

To impart basic skills of computer based engineering drawing using AutoCAD

CONTENTS -

- Getting Started with AutoCAD
- **Basic** Drawings & Editing Commands
- Drawing Precision in AutoCAD
 - Making Changes in Drawing

CE BOOKS:

Mastering AutoCAD 2009 AutoCAD E-Book AutoCAD 2007: for Engineers & Designers

George Omura Autodesk Sham Tickoo, Deepak Maini

BCT-07. BASIC MATHEMATICS

OBJECTIVES -

Use mathematics as a tool to analyze data and make informed decision in day to day professional work.

CONTENTS -

- Relationship between fractions, decimals and percents.
 - Simple Interest and Compound Interest.

 - median, mode & range.

 secure, Identify & draw angles, perpendicular & parallel lines, concepts of the securion, bisection, division of lines & angles.
- Formula for area and perimeter (Basic shapes).
- Formula for Volume and Surface area. (Simple Problems).

REFERENCE BOOKS:

illiada ett

Quantitative Aptitude

R. S. Aggarwal (English & Mindi



BCT-08. BUILDING STRUCTURE

OBJECTIVES -

- Understanding of fundamental structural elements and systems
- · Ability to design a simple abstract structural system
- Ability to diagram simple abstract structural conditions
- Ability to discuss structure utilizing appropriate technical terminology

CONTENTS -

Introduction of various types of Building Structure Unitariation various components of Building Coundations,

Structure Building Building Structure Building Structure Building Buildin

- ✓ Column,
- ✓ Beam.
- ✓ Slab.

REFERENCE BOOKS:

Building Construction
Estimating and Costing

Bindra & Arora. B. N. Dutta (English & Hindi)

BCT-09. CONSTRUCTION PERSONAL MANAGEMENT

OBJECTIVES -

To study the various aspects of manpower management such as man power planning, to study the various aspects of manpower management such as man power planning, to study the various aspects of manpower management such as man power planning,

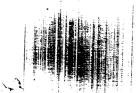
CONTENTS

- Human Relations And Organizational Behavior
- Organization—Organization Structure
- Manpower Planning

REFERENCE BOOKS:

Dy. Registrar

(Academic)
University of Rajasthan
(DYAIPUR



Project Planning and Control with PERT and CPM Construction Management & Accounts

B. C. Punmia Vazrani & Chandola

BCT-10. GENERAL EDUCATION-II

OBJECTIVES -

 The objective of this paper is to enable the students to interact and communicate with management and labor in field of construction work.

• The multiplicity of interrelated factors which influence the behavior and performance of people as members of work organizations.

CONTENTS -

Fealth and Physical Education
Suman Values in Education- I

Credit-1

Credit-2

Soft Skill

Credit-6

- ✓ English Fluency Development-II
- ✓ Building Self Confidence-II
- ✓ Communication Skills-II
- ✓ Attitude Building-II
- ✓ Presentation Skills-II
- ✓ Etiquettes & Manners-I
- ✓ Negotiations Skills-I
- ✓ Outer Grooming-I
- ✓ Group Discussion-I
- ✓ Interview Skills-I✓ Resume Building-I

Information and Communication Technology

Credit-3



Operating System:

- Definition of Operating System (OS)
- Types of OS
- Single user -Multi user
- Multi Programming and Multi Processing
- Computer and Communication:
 - Need of Data Transmission
 - Data Transmission Media
 - Baud rate and Bandwidth, Digital and Analog Transmission Serial and Parallel Data Transfer, Protocols, MODEM.

(Academic)
University of Rujasthan
WIAIPUR

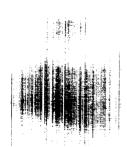


> Networking of Computers : LAN, WAN, MAN, Blue tooth

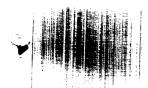
OSL-02. ONSITE LEARNING / PROJECT / LAB

- Physical Test of Below Materials
 - ✓ Cement
 - ✓ Sand
 - ✓ Aggregates
 - ✓ Bricks
- Computer Laboratory
 - ✓ Basic of Auto CAD
- Field Visit & Training(Min. 20 Days)





Dy. Registrar
(Academic)
University of Rajasthan
OTAIPUR



THIRD SEMESTER

BCT-11. CONSTRUCTION MARKETING MANAGEMENT

OBJECTIVES -

- Developing a construction marketing plan and strategy is critical to the success of any organization.
- The term "marketing" is often misunderstood and used incorrectly.
- Marketing is much more than selling or advertising.
- Marketing is the strategic plan that you develop for any organization that looks at any construction company's strengths and weaknesses.

CONTENTS

recting environment

- sessing products for Construction
- Basics of Marketing
- Marketing Projects
- Marketing Real Estate

REFERENCE BOOKS:

Construction Marketing Ideas

Mark Buckshon

Construction Planning and Management

U. K. Srivastava

BCT-12. CONSTRUCTION SAFETY MANAGEMENT

OBJECTIVES –

• To aware skilled person for any construction work to carry out the safety of labors.



- Construction Safety Management
- Safety in construction operations
- Safety in use of construction equipment
- Various safety equipment and gear used on site.
- First Aid on Site

Dy Registrar
(Academic)
(Academic)
(Alpur)
(Alpur)



Industrial Safety

R. S. Rathore

BCT-13. CIVIL AUTOCAD-II

OBJECTIVES -

- AutoCAD is software in civil engineering design and documentation to support Building Information Modeling (BIM) workflows.
- Improve project delivery, maintain more consistent data and respond faster to changes.
- Explore design options more efficiently and easily, analyze project performance and deliver consistent documentation for your projects.

• Contect Concept and sketch the arrangement of Bricks in different types of bond.

- Draw different Floors, various types of Arches and Lintels.
- Draw different types of Doors and Windows.
- Draw and Design Staircases.
- Prepare various Drawings of sanitary.

REFERENCE BOOKS:

Mastering AutoCAD 2009

AutoCAD E-Book

AutoCAD 2007: for Engineers & Designers

George Omura

Autodesk

Sham Tickoo, Deepak Maini

BCT-14. CONSTRUCTION MATERIALS & APPLICATION-II



- Construction materials are an important part of Civil (construction) Engineering.
- A person who belongs to Civil Engineering should have the thorough knowledge about different materials, useful for constructions. They should know the properties of different materials used in Civil Engineering works.
- The Student understands the varieties of materials, availability of materials, and Suitability of particular materials for particular construction activity.

Dy. Registrar
(Academic)
University of Rejasthar
Dair (R



- Introduction new construction materials and their application
 - ✓ Concrete: manufacturing, grade and physical properties
 - ✓ Use of steel in construction
 - ✓ Painting materials

REFERENCE BOOKS:

Engineering Materials
Building Materials

Rangwala

B. L. Gupta (Hindi)

BCT-15. GENERAL EDUCATION-III

OBJECTIVES -

the bajective of this paper is to enable the students to interact and communicate with

multiplicity of interrelated factors which influence the behavior and performance of people as members of work organizations.

CONTENTS -

• Health and Physical Education

Credit-1

Soft Skill

Credit-8

- ✓ English Fluency Development-III
- ✓ Building Self Confidence-III
- ✓ Communication Skills-III
- ✓ Attitude Building-III
- Presentation Skills-III

Information and Communication Technology

Credit-3

Information Concepts and Processing:

Definition of Data, Information

- Need of Information
- > Quality of Information
- > Concepts of Data Security, Privacy, Protection
- Computer Virus and their types
- Scanning & Removing Virus

Dy Registrar
(Academic)
University of Rajasthan
O JAIPUR



rd processor

- Introduction to MS-Word
- Starting MS-Word
- Special Features of MS-Word
- Using Help
- Opening Document, Typing and Editing
- > Copying, Inserting, Moving, Deleting
- Copying from One Document to Others.
- > Undo, Redo, Spell Check, Find and Replace
- > Formatting
 - c Characters and Fonts
 - Spacing
 - Removing Characters Formatting
- Inserting Symbols, Paragraphs.
- Page Setting, Header and Footer
 - Page Breaks, Borders and Shading
 - Print Preview and Printing
 - Tables and Columns
 - Mail Merge
- Auto Text and Auto correct
- Introduction to Macro

OSL-03. ONSITE LEARNING / PROJECT / LAB

- Physical Test of Concrete
- Concrete Mix Design
- Testing Steel bar / Rebar
- Auto CAD Design
- Visit to RMC Plant
- Field Visit & Training(Min. 20 Days)



University of Rajasthan CYTAIPUR.



FOURTH SEMESTER

BCT-16. BUILDING MANAGEMENT SYSTEM

OBJECTIVES -

- A Skilled person is responsible for the management of a construction job at site.
- He is required to instruct the workmen, arrange the materials, tools and plants before carrying out any construction activity.

CONTENTS -

- Introduction: Construction as an industry
- Basic concepts of Management
- Litilities and fixing of advanced automation system
 - Terent types of Management
 - management
 - Necessity ·
 - ✓ Resources men power, machines, materials, money and management.

REFERENCE BOOKS:

Project Planning and Control with PERT and CPM Construction Management & Accounts

B. C. Punmia Vazrani & Chandola

BCT-17. CIVIL SURVEY

OBJECTIVES -

• A Skilled person is expected to be well aware of the surveying.

He should be able to measure an irregular field and calculate its area practically.

The important functions of Civil Works include the job of Setting out works.

Ledevelopment of the skills in types of surveys including leveling, contouring, a see table along with Minor Instruments that the Skilled will normally be called

pon to perform.

CONTENTS -

Dy. Registrar
(Academic)
University of Rajasthan

- surveying of small areas
- Measurements of bearing of lines
- Study and use of the component parts and handling of
 - ✓ Dumpy level
 - ✓ Tilting level
 - ✓ Auto level
- · Study and use of parts of Theodolite-
 - ✓ Measurement of horizontal angle and vertical angle by Theodolite.
 - ✓ Traversing
- Study and setting of Total Station-

REFERENCE BOOKS:

Surveying-I

B. C. Punmia (English & Hindi) ·

Surveying-I

K. R. Arora

Surveying and Levelling

N. N. Basak

BCT TO CONSTRUCTION FINANCIAL ACCOUNTING

- A skilled person able to calculate the various items and have record of construction items.
- He is also able to record of financial wages and accounting.

CONTENTS -

- Definitions and Requirement of a good wage system
- Methods of Wage Payment
- Wage incentives:
 - ✓ Types of Incentive
 - ✓ Incentive to Supervisor
- Construction Contracts:
 - ✓ Introduction
 - ✓ Proposal and agreements

Types of construction contracts.

NCE BOOKS:

Estimating and Costing Estimating and Costing

B. N. Dutta (English & Hindi)

Rangwala

y, **Kegi**strar (A**cad**omic) Cusity of Rajasthai

BCT PARTY ANCED CONSTRUCTION TECHNOLOGY

OBJECTIVES –

- Building construction is an important job of skilled person. So he must acquire the knowledge of various parts of the building, their functions, importance and procedure of construction and maintenance.
- Building construction technology includes all the aspects of construction and importance of building work.

CONTENTS -

- Introduction
- Structure
 - Types of Foundation
 - ✓ Types of Walls
 - Masonry; Brick Masonry and Stone Masonry
 - Types of floors
 - ecs of
 - Scaffolding, Shoring and Underpinning
 - ✓ Arches and Lintels
 - ✓ Doors and Windows
 - ✓ Stairs and Stair Cases
 - ✓ Roofs and Floors
 - ✓ Finishing of Buildings
 - ✓ Dampness and its Prevention

REFERENCE BOOKS:

Building Construction
Building Construction
Construction Technology

Bindra & Arora. B. C. Punmia

B. L. Gupta (Hindi)

BCT 22 GENERAL EDUCATION-IV

Vits -

• The objective of this paper is to enable the students to interact and communicate with management and labor in field of construction work.

29

Dy. Registrar

(Acadomic)

University of Rejacthan

WAIPUR

initiplicity of interrelated factors which influence the behavior and performance scople as members of work organizations.

CONTENTS -

Health and Physical EducationHuman Values in Education- II

Credit-1

Credit-2

• Soft Skill

Credit-6

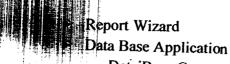
- ✓ English Fluency Development-IV
- ✓ Building Self Confidence-IV
- ✓ Communication Skills-IV
- ✓ Attitude Building-IV
- ✓ Presentation Skills-IV
- Etiquettes & Manners-II
- Negotiations Skills-II
- ✓ Outer Grooming-II
 - Group Discussion-II
 - nterview Skills-II
 - esume Building-II

Information and Communication Technology

Credit-3

- ✓ Internet:
 - > Introduction to Internet
 - Bridges, Routers, Switch, Gate way
 - > www, Web Site, URL
 - > e-mail, e-Commerce
 - Web browsing, Web page
 - > Introduction to Hyper text & HTML
- ✓ Electronic Spread Sheet
 - Introduction to MS-Excel
 - Working with Spread Sheet
 - Editing the Worksheet
 - Worksheet Formatting
 - Formula Entering
 - Function Wizard
 - Saving and Printing Work Book
 - Analysis Tools
 - Data Tools
 - ➤ Charts
 - > Linking Work Sheets

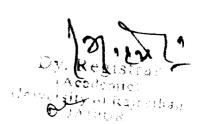
Dy. Registrar
(Academic)
University of Rajasthan
(PYTAIPUR



Data Base Components
Working with Database
Creating Excel Database
Adding Records using Data Form
Deleting Records using Menu Command
Deleting Records using Data Form
Editing Records
Finding Records based on Criteria

OSL-04. ONSITE LEARNING / PROJECT / LAB

- Building Models
 - ✓ Architectural
 - Structural
 - Ping Different Materials
 - Wood
 - ✓ Bamboo
 - ✓ Straw
- Chain surveying of small areas
- Study of compass
- Measurements of bearing of lines
- Study of the component parts and handling of
 - ✓ Dumpy level
 - ✓ Tilting level
 - ✓ Auto level.
- Measurement of horizontal angles and vertical angle by Theodolite.
- Measurement of horizontal angle, vertical angle, and distance by Total Station.
- Field Visit & Training. (Min. 30 Days)





BCT-21. PROJECT ESTIMATION AND COST ANALYSIS

OBJECTIVES -

- A Skilled person should have the knowledge about to forecast the quantity of materials required for each item of work from the available drawings.
- The student should also know about specifications of each work, knowledge of earthwork calculation and preparing of abstract of cost.

CONTENTS -

- Purpose
- Importance of estimating
- Common items of works in civil engineering construction works
- Methods of taking out quantities
- Basic Schedule of Rates (B.S.R.)
 - specifications for items of work in building construction mentioned in practical syllabus.

REFERENCE BOOKS:

Estimating and costing

B. N. Dutta (English & Hindi)

Estimating & Costing

Rangwala

BCT-22. MATERIAL PROCUREMENT & STORE MANAGEMENT

OBJECTIVES -

- The Student understands the varieties of materials, availability of materials, and Suitability of particular materials for particular construction activity.
- They also should have knowledge of storage of materials without any deterioration.
- Store purchase.
- Reserve of stock
- Dead stock
- Inventory management

Dy. Registrar
(Academic)
University of Rajasthan

of Surplus and unserviceable stores -

• Issue of materials from stock

Tools and plants

REFERENCE BOOKS:

Estimating and Costing Estimating and Costing

B. N. Dutta (English & Hindi) Rangwala

BCT-23. INFRASTRUCTURE DEVELOPMENT & PROJECT MANAGEMENT

OBJECTIVES -

• Complex research and development projects can be managed effectively if the skilled person has the means to plan and control the schedules and costs of the work required to achieve their technical performance objectives.

Introduction to:

- Project Planning and Management
- Project Management
- Project Management context
- Phases in Project Management
 - ✓ Planning
 - ✓ Execution
 - ✓ Controlling
- Time management
- Cost management
- Quality management
- Risk management
- Human resources management
- Communication management

SCE BOOKS:

Project Planning and Control with PERT and CPM Construction Management & Accounts

B. C. Punmia Vazrani & Chandola

(Academic)
University of Rajasthan
MIAIPUR

BCT LA INSTRUCTION QUALITY MANAGEMENT

OBJECTIVES -

 To assure the quality of building construction work skilled person have knowledge of construction quality management.

CONTENTS -

- Quality Assurance
- Quality Assurance Personnel
- Contractor Quality Control
- Quality Control Personnel

REFERENCE BOOKS:

Construction Planning and Management
Construction Management & Accounts

U. K. Srivastava Vazrani & Chandola

BCT-25 ERELERAL EDUCATION-V

OBJECTIVES -

- The objective of this paper is to enable the students to interact and communicate with management and labor in field of construction work.
- The multiplicity of interrelated factors which influence the behavior and performance of people as members of work organizations.

CONTENTS-

Health and Physical Education

Credit-1

• Soft Skill

Credit-8

English Fluency Development-V
Berilding Self Confidence-V
Communication Skills-V
Attitude Building-V

Presentation Skills-V

✓ Etiquettes & Manners-III

✓ Negotiations Skills-III

✓ Outer Grooming-III

Dy. Registrar
(Academic)
University of Rajasthan
JAIPUR



Information and Communication Technology

Credit-3

- ✓ Power Point:
 - > Introduction to Power Point
 - > Creating a Presentation/Slide
 - > Adding Animation in Slide
 - > Running a Slide Show

OSL-05. ONSITE LEARNING / PROJECT / LAB

- Computational Laboratory
 - ✓ Estimating & Costing
 - Design by Standard Software
- Field Visit & Training.(Min. 45 Days)



Dy. Registrar
(Academic)
University of Rajasthan
© JAIPUR

SIXTH SEMESTER

BCT 25 INSTRUCTION & INTERNATIONAL CONTRACTING

OBJECTIVES -

 This Subject covers in detail the process of estimation of a project, procedure related to tenders for their execution, contractual condition applicable, contract administration for successful execution and dispute resolution

CONTENTS-

- Tendering and contractual procedure
- Definition of contracts and its applicability
- Types of contract document forming a contract
- International contract

REFERENCE BOOKS

I stating and Costing sumating and Costing

B. N. Dutta (English & Hindi) Rangwala

BCT-27. ENTREPRENEURSHIP DEVELOPMENT PROGRAMME

OBJECTIVES-

- Entrepreneurship will introduce the students about how to set up a small-scale industry
- The subject includes the procedure for how to select, proceed and start the SSI.

CONTENTS -

• Entrepreneurship and Entrepreneur

• Need of Employment and Opportunities.

Essential Characteristics of a good Entrepreneur

The estial Policy.

restrication of industries- Tiny, small scale, Medium scale, Large scale, prograft, Ancillary

Type of industries- Production, Job based & Service

Dy. Registrar
(Academic)
University of Rajasthan
(JAPPIR

REFERENCE BOOKS:

industrial Entrepreneur and Management

O. P. Khanna

BCT-28. PROJECT MANAGEMENT TECHNIQUE

OBJECTIVES -

 A skilled person is responsible for the management of a construction job at site. He is required to instruct the workmen, arrange the materials, tools and plants before carrying out any construction activity.

CONTENTS-

- Construction project planning
- Stages in planning
- Bar charts
- Introduction to Network

daming and scheduling by bar charts

initations of bar chart

HAI and CPM

REFERENCE BOOKS:

Project Planning and Control with PERT and CPM Construction Management & Accounts

B. C. Punmia Vazrani & Chandola

BCT-29. GREEN TECHNOLOGY

OBJECTIVES -

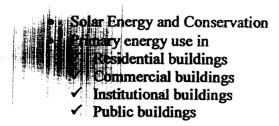
• Green building is the practice of increasing the efficiency with which building use resources – energy, water and materials – while reducing building impacts on human health and the environment, through better sitting, design, construction, operation & maintenance.

in incoduction and Fundamentals of energy

Energy Production Systems

• Heating, Ventilation and Air- conditioning

Dy Registrar
(Academic)
University of Rajasthan
DAIPUR



REFERENCE BOOKS:

Green Buildings in India Sustainable Construction

Loga Raja, K.Suresh Kannan Charles J. Kibert

BCT-30. GENERAL EDUCATION-VI

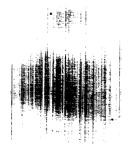
OBJECTIVES -

- The objective of this paper is to enable the students to interact and communicate with management and labor in field of construction work.
- The multiplicity of interrelated factors which influence the behavior and performance of people as members of work organizations.

| Health and Physical Education | Credit-1 |
|--|----------|
| Human Values in Education- III | Credit-2 |
| Soft Skill | Credit-6 |
| Information and Communication Technology | Credit-3 |

OSL-06. ONSITE LEARNING / PROJECT / LAB

- AC of Building
 - ✓ AC lecture hall/ Complex
 - ✓ AC Public Building
- Field Visit & Training.(Min. 60 Days)



Dk. Registran
(Academic)
University of Rajasthan
(P JAIPUR

B. Voc. In Interior Design

Scheme and Syllabus

39.

Dy. Registrar
(Academic)
University of Rajasthan

Title of the Programme: Bachelors of Vocation in Interior Design leading to degree "B. Voc. (Interior Design)"

With the economic growth the demands for housing and commercial increased manifold. This has given steep rise to demand for competent professionals and skilled technical associates in building and interior industry. Increased awareness about quality of interior spaces in all spheres of activity has enhanced the demand for Interior Design Professionals. Private practices of Architects and Interior Designers, construction and interior decoration firms, furniture and furnishing houses, manufacturers and vendors of interior and building products all look for competent persons who can work at the cutting edge level in a professional manner.

This programme is designed to cater to demands of professionally trained human resource in the field of Interior Design.

The programme is highly relevant for all those who want to pursue a professional career in Interior Design practice, or in building industry, or in the field of marketing etc.

Aim: The programme aims to build individual capacities and train persons with adequate employability skills. The programme structure attempts to blend appropriate that alknowledge and skills, personal and professional skills and substantive and field / site experience required in the trade.

Keeping in view the demands of the market and to provide flexible options for students the programme is designed in-modular manner and allows entry and exit options at various levels. The learners will have flexibility to develop themselves according to their strengths and career interests.

Duration: 6 Semesters (3 years). This three year full time programme is divided into six semesters, each of 14 weeks including assessment. In addition all students are expected to undergo on job training / project work for 4-8 weeks every semester that may continue partly during summer / winter breaks

Eligibility:

Entry to First Year - 12th pass in any discipline;

Lateral entry may be offered in the second year and third year of the programme to external candidates who have undertaken courses deemed to be equivalent to the 1st year and 2nd year programme respectively and are able to qualify the skill equivalency test organized by the college/institute offering the programme.



Dy. Registrar
(Academic)
University of Rajasthan
O JAIPUR

Programme Structure:

The course titled as B.Voc. (Interior Design) is proposed with a modular structure that structure that structure that the end of each module.

Diploma in Interior Design (One Year)

Outcome: A person having adequate skills to work as an Assistant to a professional Interior designer.

After successful completion of this module and some additional practice the student should be equipped to:

a. Make drawings after measurement of spaces and gather basic site information with help of notes and pictures

 Appreciate the role basic design elements to prepare well composed presentation drawings and office documents.

c. Make simple presentation drawings for architectural and interior design works using computer soft wares

d. Perform basic office functions - maintain record of drawings and files, record of drawings, keep account of routine expenses.

Communicate pleasantly with visitors to office using correct terminology related to interior design work, make notes and write simple letters.

f. Prepare and layouts of interiors of small spaces like apartments, houses, shops,

Diploma in Interior Design (Two Year)

Cure and A person having adequate skills to work as 'Technical Assistant' to a professional Interior designer

After successful completion of this module and some additional practice the student should be equipped to:

a. Take measurements of spaces and small buildings, document services and other site conditions sufficient enough to commence interior design work.

b. Make presentation drawings including three dimensional views for architectural and interior design works using computer software.

c. Appreciate the importance of arts and crafts and their role in interior design.

d. Undertake functional space planning of medium scale interior spaces with due regard to basic services.

e. Make basic working drawings of interior spaces

f. Read drawings of services and structures and appreciate various functional requirements of the same for integration in interior designs and drawings

g. Appreciate use of interior products, their availability in the market and sourcing from vendors.

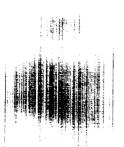
Communicate pleasantly in person and on phone with the clients / customers using appropriate vocabulary used by interior designers, write simple letters and undertake basic secretarial work.

B. Voc. (Interior Design) (Three Year)

Outcome: A person having skills to work as a Technical Associate to a professional technical designer or work as a 'multi tasking' technical person in an organization trace tracerior design trade.

Assert necessful completion of this module and some additional practice the student should be equipped to:

- Prepare documents including measure drawings of site, site related information photographs etc sufficient enough to undertake design of interiors and small buildings.
- b. Make presentations including drawings and perspectives for computer aided presentations for the clients /customers.
- c. Make working drawings and coordinated services' drawings for site execution.
- d. Assist in preparation of bill of quantities, measurement of executed interior works and its billing
- e. Coordinate and supervise implementation of designs on site as per drawings and specifications and report basic defects.
- f. Appreciate use of interior products, their availability in the market and sourcing from vendors.
- g. Prepare basic interior designs of small and medium scale interior spaces like houses, apartments, commercial spaces, exhibition and shop displays, etc with due regard to aesthetics and basic services.
- h. List and coordinate procurement of modular furniture, interior fit-outs,
 - tipport running and management of a small business enterprise and design



Dy. Registrar
(Academic)
University of Rajasthan
(AIPUR

EXAMINATION SCHEME AND PATTERN

CREDIT CALCULATION

The coloring formula is used for conversion of time into credit hours.

The credit would mean equivalent of 14-15 periods of 60 minutes each for theory or 28-30 hrs of workshops/labs:

- For industrial visit, the credit weightage for equivalent hours shall be 50% of that for lectures/workshops;
- 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/workshops.

COURSE STRUCTURE

| NSQF Level | Credits Credits | | Normal calendar duration | Exit Points /. Awards |
|---------------|-----------------|----|--------------------------------|--------------------------|
| Year 3 | 36 | 24 | Six Semesters | B.Voc. |
| Year 2 | 36 | 24 | Four semesters | Advanced Diploma |
| | 36 | 24 | Two semesters | Diploma |
| | 108 | 72 | | |

As per the UGC guidelines, there are multiple exit point for a candidate admitted in this course. If he/she is completing all the six semester successfully, he/she will get B. Voc degree in Interior Designing. If he/she is completing the first four semesters successfully, he/she will get an advanced diploma in Interior Designing. If he/she is completing the first two semesters he/she will get a diploma in Interior Designing.

DISTRIBUTION OF MARKS

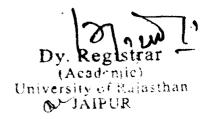
| Sem. | Code | Subject | General/ | Theory/ | Credit | Marks | Marks | Total |
|------|------------|---|----------|-----------|--------|-------|-------|-------|
| | No | | . Skill | Practical | | ESE | .CE | Marks |
| | BID-01 | Basic Mathematics | Skill | T | 3 | 60 | 40 | 100 |
| ONE | BID-02 | Introduction to Design and Arts | Skill | T | 3 | 60 | 40 | 100 |
| | X | Introduction to Building Materials & Construction | Skill | Т | 2 | 60 | 40 | 100 |
| | BL. | Architectural & Interior | Skill | T | 2 | 60 | 40 | 100 |

Dy. Registrar
(Academic)
University of Rajasthan
JAIPUR

| OSL-1 Onsite Learning / Project / Skill P 8 60 40 | Drawing - 1 | | | | **** | | 2000 |
|---|---------------------|----------|---|----|------|-----|-------|
| General Education-I General T 12 60 40 | | Skill | P | 8 | 60 | 40 | 100- |
| 4 | General Education-I | General | T | 12 | 60 | 40 | 100 - |
| TOTAL 30 360 240 | TOTAL | <u> </u> | | 30 | 360 | 240 | 600 |

| Sem. | Code No | Subject | General/ | Theory/ | Credit | Marks | Marks | Total |
|------|------------|--|------------|-----------|--------|-------|-------|-------|
| | | | Skill | Practical | | ESE | CE | Marks |
| | BID-06 | Measure Drawing of Spaces & Buildings | Skill - | Т | 2 | 60 | 40 | 100 |
| | BID-07 | Interior Studio - 1 | Skill | Т | 3 | 60 | 40 | 100 |
| TWO | BID-08 | Architectural & Interior Drawing - 2 | Skill | Т | 3 | 60 | 40 | 100 |
| | BID-09 | Basics of Office Management | - Skill | т | 2 | 60 | . 40 | 100 |
| | | Onsite Learning / Project / Lab | Skill | P | 8 | 60 | 40 | 100 |
| *** | | General Education-II | General | Т | 12 | 60 | 40 | 100 |
| | | TOTAL | | | 30 | 360 | 240 | 600 |

| Sem. | Code % No | Subject | General/ Skill | Theory/ Practical | Credit | Marks ESE | Marks CE . | Total Marks |
|------|-----------------|--|-------------------|----------------------|--------|--------------|---------------|----------------|
| THR | BID-11 | Computer Applications for Drawings and Graphics | Skin . | Т | 2 | 60 | 40 | 100 |
| | BID-12 | Materials & Products for building interiors - 1 | Skill | Т | 2 | 60 | 40 | 100 |
| | BID-13 | Interior Studio - 2 | Skill | T | 3 . | 60 | 40 | 100 |
| | BID-14 | Introduction to Specifications | Skill | т | 3 | 60 | . 40 | 100 |
| | | Onsite Learning / Project / Lab | Skill | P | 8 | 60 | 40 | 100 |



| BID-15 | General Education-III | General | T | 12 | 60 | 40 | 100 |
|--------|-----------------------|---------|---|----|-----|-----|-----|
| 184 | TOTAL | | | 30 | 360 | 240 | 600 |
| | | | *************************************** | | | | |

| Sem. | | Subject | General/ Skill | Theory/ Practical | Credit | Marks ESE | Marks CE | Total Marks |
|----------|---------|---|-------------------|-------------------|--------|--------------|-------------|----------------|
| | BID-16 | Computer Applications for Drawings and Graphics (Advanced Course) | Skill | T | 1 | 60 | . 40 | 100 |
| | BID-17 | Traditional & Contemporary Interiors, Arts & its Appreciation | Skill | T | 4 · | 60 | 40 | 100 . |
| FOU R | BID-18 | Basics of Estimation, Costing & Quantity Surveying | Skill | τ | 2 | 60 | 40 | 100 |
| | BID-19 | Activity Sequencing and Check List for Interior Works | Skill | T | 3 | 60 | 40 | 100 |
| | | Onsite Learning / Project / Lab | Skill - | P | 8 | 60 | 40 | 100 |
| | BEDZALE | General Education-IV | General | Т | 12 | 60 | 40 | 100 |
| | | TOTAL | - | | 30 | 360 | 240 | 600 |

| Sem. | Code No | Subject | General/ Skill | Theory/ Practical | Credit | Marks ESE | Marks CE | Total . Marks |
|------|--|---------------------------------------|-------------------|----------------------|--------|--------------|-------------|------------------|
| | BID-21 | Supervisory Skills | Skill | Т | 2 | 60 | 40 | 100 |
| | BID-22 | Interior Design Studio - 2 | Skill | T | 2 | 60 | 40 | 100 |
| FIVE | BID 23 | Preparing Bill of Quantities | Skill | 1 | 2 | 60 | 40 | 100 |
| | And the second s | Managing Small Business Enterprise | Skill | Т | 1 | 60 | 40 | 100 |
| 10.0 | | Onsite Learning / Project / | Skill | P | 11 | 60 | 40 | 100 |

45

Dy. Registrar
(Academic)
University of Rejasthan
OTAIPUR

| 1 | | Lab | T. C. C. | | | | | • |
|---|--------|---------------------|----------|--|----|-----|-----|----------|
| | BID-25 | General Education-V | General | T | 12 | 60 | 40 | 100 . |
| | | TOTAL | <u> </u> | | 30 | 360 | 240 | 600 |
| | | | | ······································ | | | | <u> </u> |

| Sem. | Code | Subject | General/ Skill | Theory/ Practical | Credit | Marks ESE | Marks CE | Total Marks |
|------|--------|--|-------------------|----------------------|--------|--------------|-------------|----------------|
| | BID-26 | Health, Safety & Environment (Laws & Regulations in construction industry) | Skill . | Т | 2 | 60 | 40 | 100 |
| | BID-27 | Design Project Work | Skill | T | 1 | 60 | 40 | 100 |
| SIX | BID-28 | Measurement & Billing. | Skill | Т | 2 | 60 | 40 | - 100 |
| SIA | BID-29 | Professional Behavior, Etiquettes and Ethics | Skill | т | 1 | 60 | 40 | 100 |
| | PSL−6 | Onsite Learning / Project / Lab | Skill | Р | 12 | 60 | 40 | 100 |
| | | General Education-VI | General | T | 12 | 60 | 40 | 100 |
| | | . TOTAL | - | | 30 | 360 | 240 | 600 |

| GRAND TOTAL | 180 | 2160 | 1440 | 3600 |
|-------------|-----|------|------|------|
| • | | | | |

EVALUATION / ASSESSMENT

There shall be Continuous Evaluation (CE) and End Semester Evaluation (ESE) for B. Voc (Building Construction Technology) course. CE is based on specific components viz., attendance, tests, assignments and seminars. The CE shall carry a weightage of 40 Per cent and ESE shall carry a weightage of 60 per cent.

1. CONTINUOUS EVALUATION (CE)

The CE component shall be of 40% weight distributed in three sub-component by Attendance – 10%. (ii) assignment / seminar – 10% and mid-course tests - 20%.

Dy Registrat
(Academic)
(Jaiversity of Rajasthan
DJAIPUR

Attendance (10 Marks)

The minimum number of hours of lectures, tutorials, seminars, or practicals which a student shall be required to attend for eligibility to appear at the end semester examination shall not be less than 75 per cent of the total number of lectures, tutorials,

estions. Internships, study tours and soft skill and personality development programmes that of the course and students must attend in these activities to complete a semester.

Assignments/ Seminars (10 Marks)

Each student shall be required to do one assignment for each course.

Mid-Course Tests (20 Marks)

For each course there shall be at least two class tests during a semester. Grades for the test component in CE shall be awarded on the basis of the grades secured for the better of the two class tests.

2. END SEMESTER EVALUATION (ESE)

End Semester Examination of all the courses in all semesters shall be conducted. The duration of examination of all courses shall be 3 hours and 60 marks. The end semester examination of the design / project based courses shall be evaluated by viva-voce by expert(s)/ jury in which one will be external examiner.

Paper Pattern

A question paper will divide in three sections, named Section A, Section B and Section C.

- (2) Section A will be of 10 marks comprising of SIX very short answer questions or objective type questions of two marks each out of which the student may choose to answer ANY FIVE questions. Section B will of 20 marks comprising of FIVE short answer questions of five marks each out of which student may choose to answer any FOUR questions. Section C will be of 30 marks comprising of THREE long answer questions (application based) of 15 marks each out of which student may choose to answer any TWO questions.
- (3) The questions should be written both in English & Hindi languages but in case any discrepancy, English version will be followed.
- 3. In individual paper minimum 35% marks in ESE are required to clear a paper. However in aggregate, minimum 40% marks will be required to qualify the exam.
- 4. Wherever practical/lab exam are required, examination will be conducted by a panel of examiner(s) in which one will be external examiner.
- 5. For progressive promotion from one semester to next semester, candidate will have to earn material 50% credits provided in that semester.
 - rituation in individual paper will be permitted as per University of Rajasthan norms.

Dy Registrar
(Academic)
University of Rajasthan
O JAIPUR

7. The supplementary examination of each paper will be conducted by university as per University of Rajasthan norms. Maximum two additional attempts will be given to clear a paper. If a candidate fails in a paper first attempt chance will be given through supplementary examination. If he/she still fails to clear this paper in supplementary exam last chance will be given with main exam of corresponding semester. If he/she still fails to the still

GRADING

Grading pattern will be followed using UGC Guidelines for B.Voc. on 10 point grading system given below:

LETTER GRADE PERFORMANCE

| RANGE | LETTER GRADE | GRADE POINT |
|--------------|----------------------------|-------------|
| 93 and Above | O (Outstanding) | 10 |
| 92-85 | A ⁺ (Excellent) | 9 |
| 84-75 | A (Very Good) | 8 |
| 74-65 | B' (Good) | 7 |
| 64-55 | B (Above Average) | 6 |
| 54-45 | C.(Average) | 5 |
| 4-35 | P (Pass) | · 4 . |
| Below 35 | F (Fail) | 0 |
| | Ab (Absent) | 0 |

NOTE: In general for both the programmes guidelines issued by UGC as per NSQF (National Skill Qualification Framework) should be followed.

Dy Registrar
(Academic)
University of Rajasthan
(D JAIPUR

Below is the detailed structure for the three year (6 semesters) programme:

| | FIRST | SEMEST | ER . | e par en | A second | |
|---------|--|--------|-----------------------|----------|------------------|---------|
| COULS: | COURSES | No. o | of Contact Per Wee | | CREDITS | REMARKS |
| | | L | P | T | | |
| BID-01 | SKILLE | OWHON | NI_{ij} | | te la | |
| | Basic Mathematics . | 3 | 0 | 0 | 3 | |
| BID-02 | Introduction to Design and Arts | 2 | 2 | 0 | 3. | |
| BID-03 | Introduction to Building Materials & Construction | 1 | 0 | 1 | 2 | |
| BID-04 | Architectural & Interior Drawing - I | l I | 0 | 0 | 2 | , |
| OSL - 1 | Onsite Learning / Project / Lab | | 8 | | 8 | - |
| | EN STEEN CHANGES TO THE | 7,1 | li ki. | | 10.00 | |
| | GENERAL | COMPO | VENT - | | B. Markey (1984) | |
| BID-05 | General Education-I | 8 | 4 | Ú | 12 | 70 |
| ł | La - Tenante y de la | 15. | 14 | | 10 | |

| COURSES | | No. o | f Contact Per Weel | | CREDITS | REMARKS |
|---------|---------------------------------------|-------|-----------------------|---------|---------|-----------------------|
| | | L | PT | | | |
| 199 | SKIELCO | MPONE | NT | E comme | | range of the |
| BID-06 | Measure Drawing of Spaces & Buildings | 2 | 2 | ,0 | 2 | |
| BID-07 | Interior Studio – I | 3 | 0 | 0 | 3 | |
| BID-08 | Architectural & Interior Drawing -2 | 1 | 0 | 1 | 3 | |
| BID-09 | Basics of Office Management | 1 | 0 | 0 | 2 | |
| OSL - 2 | Onsite Learning / Project / Lab | | 8 | | 8 | |
| | | | | | | |
| | GENERALC | OMPON | ENT | | | E and a second second |
| BID-10 | General Education-II | 8 | 4 | 0 | 12 | |
| 10 | According to the process of sealings. | | | | | |

Dy Registrar
(Academic)
University of Rajasthan
PY JAIPUR

| COURSE NO. | COURSES | No. of Contact Hours Per Week | | CREDITS | REMARKS | |
|------------|---|-------------------------------|-------|----------|---------|-------|
| | SKILL CO | L MPONI | P | T | | |
| Bij | computer Applications for Drawings and Graphics | 1 | 0 | 0 | 2 | |
| BID-12 | Materials & Products for building interiors - 1 | 1 | 0 | 0 | 2 | |
| BID-13 | Interior Studio – 2 | 2 | 2 | 0 | 3 | |
| BID-14 | Introduction to Specifications | 2 | 2 | 0 | 3 | |
| OSL-3 | Onsite Learning / Project / Lab | | 8 | <u> </u> | 8. | |
| | GENERALCO | alvedar | ie dr | | | |
| BID-15 | General Education-III | 8 | 4 | 0 | 12 | * |
| | TOTAL TANKS | . (4 | īć. | (1977) | 30 | isjan |

| C () | COURSES | | f Contact Per Weel | | CREDITS | REMARKS |
|-------------|---|--------------|-----------------------|--------|---------|---------|
| | | L | Р | T | | |
| BID-16 | Computer Applications for Drawings and Graphics (Advanced Course) | I Nisovie | 0 | 0 | 1 | |
| BID-17 | Traditional & Contemporary Interiors, Arts & its Appreciation | 2 | 2 | 0 | 4 | |
| BID-18 | Basics of Estimation, Costing & Quantity Surveying | 1 | 0 | 1 | 2 · | |
| BID-19 | Activity Sequencing and Check List for Interior Works | 2 | 0 | 0 | 3 | |
| OSL – 4 | Onsite Learning / Project / Lab | | 9 | | 8 | • |
| | SUB IPOTEMENTO A SUB- GENERAL C | OMPON | ENT | e seul | | |
| BID-20 | General Education-IV | 8 | 4 | 0 | 12 | • |
| : 14 | Aller of Tananatation and the | | Jan. | | 1 | |

So

Dy Registrar
(Academic)
University of Rajasthan
(AIPUR

| | | EMEST | ER . | | | |
|---------------|---|----------------------------------|---|------------|---|-------------------------------------|
| COURSE NQ. | COURSES - | No. of Contact Hours Per Week | | | CREDITS | REMARKS |
| | | L | P | T | | |
| | SKILLCO | MPONE | INT : | | | € 74 % |
| | Supervisory Skills | 2 | 2 | 0 | 2 | |
| | Interior Design Studio – 2 | 1 | 0 | 0 | 2 | |
| BID-23 | Preparing Bill of Quantities | 1 | 0 | 0 | 2 . | |
| BID-24 | Managing Small Business Enterprise | 1 | 0 | 1 | 1 | • |
| OSL – 5 | Onsite Learning / Project / Lab | | 10 | | 11 | |
| | STATE STEEL STATE OF THE STATE | | S. C. | | | |
| | GENERALIC | OMINOR | ZENIE GE | | | |
| BID-25 | General Education-V | 8 | 4 | 0 | 12 | |
| | 1EONE II | need waterings and | ha ang tinggi ng palawa | - Antonius | The figure of the first of the | បានមានបង្ហាញបាន « ដូ » ដែលជាមួយ និង |

| COURSE NO | COURSES | | ER of Contact Per Wee | | CREDITS | REMARKS |
|--------------|---|-------|-----------------------|---|---------|--|
| | | L | P | T | | |
| | SKILLCO | MPONI | INT * | | | |
| BID-2d | & Regulations in construction industry) | 1 | 0 | 1 | 2. | |
| BID-27 | Design Project Work | 1 | 0 | 0 | 1 | - |
| BID-28 | Measurement & Billing. | 1 | 0 | 1 | 2 | • |
| BID-29 | Professional Behavior, Etiquettes and Ethics | l | - 0 | U | 1 | |
| OSL-6 | Onsite Learning / Project / Lab | | 12 | | 12 | |
| | | | | | | |
| | GENERAL | OMPO | NENT : | | | |
| BID-30 | General Education-VI | 8 | 4 | 0 | 12 | And the second s |
| | TOWARD STATES | | 1 (| | | |

NOTE:- * Any guideline issued by Sector Skill Council (SSC's) under NSQF will be included in the Curriculum by the college/institute with intimation to the Rajasthan University.

*College Transfer deavour to invite distinguished experts to augment learning and/or assessment at allthe levels as

31

Dy. Registrar
(Academic)
University of Rajasthan
O JAIPUR

B.VOC. (INTERIOR DESIGN) SEM - 1

OBJECTIVES – The student will be able to

Use mathematics as a tool to analyze data and make informed decision in day to day professional work.

Calculate area, distances, perimeters, volumes as applicable to

Calculate area, distances, perimeters, volumes as applicable to measurements of various components of buildings and interiors.

Develop simple formulae used in CAD and Spreadsheet.

CONTENTS -

Relationship between fractions, decimals and percents.

Simple Interest and Compound Interest.

Mean, median, mode & range.

Measure, Identify & draw angles, perpendicular & parallel lines, concepts of intersection, bisection, division of lines & angles.

Formula for area and perimeter (Basic shapes).

Formula for Volume and Surface area. (Simple Problems).

NOTE: Instructor will develop exercises based on routine interior design office activities like calculating area of a space, carpet and super built up area, order quantities (like boxes of tiles required, area and weight of stone to be ordered etc.) Parallel attempt will be made to do these exercises on spread sheet in the separate

MGR adiesičani siema

OBJECTIVES - At the end of this course student should be able to

Explain basic elements and principles of design

Prepare compositions in different mediums, colors and textures.

Describe and appreciate the aesthetical expression in different art forms.

CONTENTS -

Design - Meaning, Importance of Aesthetics,

Sensitization about 'Art' - Visual, Music, Dance

Design Components -

Shape

Texture

Color

Principles of design - Proportions, Symmetry, Repetition, Harmony, Contrast, Dominance, Balance, Dynamism, etc.

dents will practice making 2 dimensional compositions on paper using

98

<·2

(Academic)
University of Rajasthan
(A) JAIPUR

different medium and physical models using different materials. Besides this qualities of a good visual designs shall be explained through photographs, artworks etc.

INTERIOR DESIGN) SEM

VES – At the end of this course the student should be able to

Describe the basic terminology used by architects and interior designers.

- Identify various elements of buildings and interiors in drawings and real life situations and describe them using professional terminology.
- Explain nature and application of building materials/products used in interiors.
- ☐ Identify regional vendors of basic interior products routinely used in interiors of homes and small shops.

CONTENTS -

- Terminology, nomenclature of various parts of building and interiors from foundation to roof. (The relevant terminology that shall be developed and demonstrated by the instructor through field visits and its representation shown on drawings)
- Introduction to products and materials used in interiors Timber, Ply, Boards, Laminates, Tiles (floor and walls), Marble, Sandstone, POP,

Paints and Textiles.

Introduction to products and materials used in construction of a house / small shop — Bricks(Clay and Fly-ash), Hollow blocks, Stones, Cement, Lime, Mortar, PVC and GI pipes, Concrete, Steel (Mild & Stainless), Aluminum.

Envote College Earlion of the Stock of State of the State

OBJECTIVES - At the end of this course the student should be able to

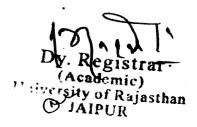
- Prepare drawings by using drafting tools and accessories.
- Comprehend and Visualize geometric forms.
- Understand about Scale & Proportions.
- To initiate CAD.

CONTENTS -

Introduction: -

Drawing Instruments and their uses.







Sheet layout and sketching.

Lettering: Exercises in drafted and freehand architectural lettering.

Lines: Concept and types of lines. Line thickness. Dimension lines.

Scales.

Basic technical drawing: -

Division of lines and angles.

☐ Drawing polygons.

Inscribing and circumscribing circles in polygons.

Orthographic Projections.

Projection of Points, Lines and Planes in different positions.

Simple 2D drawings using computer software. - Plans, elevations and sections of small spaces like a bedroom or a shop or alike.

B MOG (INUBRIOREDRESIGN) SEM - A LA BID-AS GENE RESIGNATION OF THE RESIGNATION OF THE PROPERTY OF THE PROPERTY

OBJECTIVES -

To inculcate in group learning and improve communication skills.

CONTENTS -

Health and Physical Education - I

Credit- 1

on Skill

Credit-8

English Fluency Development-I

- Building Self Confidence-I
- ✓ Communication Skills-I
- ✓ Attitude Building-I
- ✓ Presentation Skills-I
- Information and Communication Technology:

Credit- 3

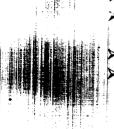
- √Computer: An Introduction
- ✓ Generation of Computers & Types: PC, PC/XT, PC/AT, Main Frame, Super, Lap Top, Pam Top
- ✓ Data Representation:
 - > Bit, Nibble, Byte, Word
 - Number System : Decimal, Binary, Hexadecimal & their Conversions
 - Arithmetic Operations (Addition, Subtraction using Binary Number System)
- ✓Idea of:
 - Hardware and Software
 - Firmware, Free ware and Human ware

Univ.

Dy. Registrar
(Academic)
University of Rajasthan



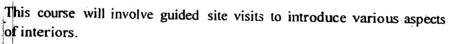
- ✓ Computer Languages and Translators:
 - Machine and Assembly
 - Translators: Assembler, Interpreter, Compiler
- ✓ Introduction to Computer:
 - Central Processing Unit (CPU)
 - Input/ Out Devices: Keyboard, Mouse (Optical), Digitizer, Scanner, Web Camera, Monitor (CRT, TFT), Printers, Plotters, Bar Code Reader
 - Secondary Storage Devices: Floppy, Hard Disk, CD, DVD, Flash Drive
 - Block Diagram Showing Interconnection of Computer Parts



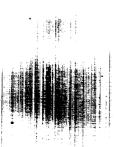


OBJECTIVES -

- To provide practical understanding of traditional & contemporary interior elements.
- To understand the nature of interior works and various products used in contemporary designs.
- Appreciate functional aspects of spaces.
- To present the field studies in the form of sketches / photographs short reports.







Dy. Registrar
(Academic)
University of Rajasthan
DAIPUR

B.VOC. (INTERIOR DESIGN) SEM

BID-06 MEASURE DRAWING OF SPACES & BUILDINGS

OBJECTIVES - At the end of this course the student should be able to Take measurement of building/spaces, and to draw plans, elevations and ctions of the same.

pare Scale drawings of the measured spaces using computer software. d survey maps and measure drawings.

CONTENTS

- ☐ Introduction to measurement tools and traditional methods measuring tapes, gunia, plumb, water level, spirit level, magnetic compass. (exposure to 'laser' technology based instruments)
- Using photographs for visual references.
- Measure existing small houses, apartments, and interior spaces and prepare hand drawings and sketches (Nazari Naksha) on paper.
- Prepare scale drawings of interior spaces and small houses with proper graphical representation of building components.
- Reading survey maps and measure drawings of interior spaces.

- At the end of this course the student should be able to meart knowledge on the various materials while, highlighting the current trends and innovations in the usage of interior design materials.
- Impart knowledge required for specifying appropriate materials for various spaces in interior design
- Compare the different alternative materials suitable for given-job.
- Apply basic knowledge of human scale in designing small functional spaces.

CONTENTS -

Floor Finishes: Selection of Floor Finishes Factors affecting the selection (i.e. Base, Room Use, Degree of Comfort required, Maintenance, Cost, Appearance, Safety & Durability), Types of Flooring Wall Finishes, Ceiling Materials, Roofing Materials, Paints & Varnishes.

Structural systems and their layout for a small building -Partitions.



- False Ceiling.
- Panelling & Cladding.
- Mezzanine Floor.

Structural system for urban interior spaces - malls, fair grounds, exhibition spaces, etc.

The studio exercise in this semester will focus on bldg. Standards & Site visits:

Anthropometrics Studies:

Studies and introduction to human dimensions and functions,

Design and layout of personal space based on various human activities.

Understanding of Form - shape, size, proportions

Understanding of Installation Manuals, Codes etc.

B VOC (INTERIOR BESIGN) SEM

HIDDR ARCHITEGEDRAL & L. MITERIOR DRAWING

OBJECTIVES - At the end of this course the student should be able to

- Understand graphic treatment of two-dimensional drawings.
- Develop perception and presentation of simple architectural forms and buildings.
- Make models of different forms and sections of solids.
- Prepare 2 D drawings using CAD.

CONTENTS -

Metric Drawing:-

Types, uses and advantages.

Isometric, Axonometric and Pictorial View.

Metric Drawing, Projection and their dimensioning.

Metric of plane figures composed of straight lines.

Metric of Circles.

Metric of simple and complex blocks.

Section of Solids:-

- Section plans, Sections, True shape of a section.
- ☐ Intersection and Interpenetration of Solids.
- Development of Surfaces

Model making.

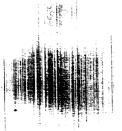
CAD-2D.

Learn various 2D commands their function and application.

Understanding coordinate systems.

Working on layers.

Drawing plans, Elevations. Sections using Auto Cad.



Dy Registrar
(Academic)
University of Rajasthan
(AIPUR

Dimensioning Drawings.
Connecting from one file format to another.
Various file formats and their usefulness.
Taking printouts using drawing plotter.

| 3.1 | |
|-----------|--|
| 3 (N) | BID-09/BASICS OF OPEICE MANAGEMENT |
| OBJECTIVE | At the end of this course the student should be able to Understand the organizational structure of an Interior Designer's Office. |
| | Manage Drawings & Office Records in a small office. |
| | Perform basic book keeping works. |
| | Perform office correspondence in the form of emails, letters & text messages. |
| CONTENT | S: |
| 1 | Office and its management. |
| C | Structure of an Interior Designer's Office |
| | Managing Time - |
| • **** | Office Etiquettes and Work Ethics. |
| ** | Working in small groups / teams |
| | Maintaining Drawing and Office Records. |
| | Use of Computers and Accessories for Office Work. |
| | Basic Accounting and Book-keeping. |
| | Written Communication – simple letters, emails text messages and short reports. |
| | DE STESTIGISE SEMELO DE LA TIMA DE LA SENERA DE LA CONTRACTOR DE LA TIMA DE LA CONTRACTOR D |

OBJECTIVES -

- The objective of this paper is to enable the students to interact and communicate with management and labor in field of construction work.
- The multiplicity of interrelated factors which influence the behavior and performance of people as members of work organizations.

CONTENTS -

- Health and Physical Education
- Human Values in Education- I

Credit-1 Credit-2

Dy Registrar
(Academic)
University of Rajasthan
DJAIPUR

58

- ✓ English Fluency Development-II
- ✓ Building Self Confidence-II
- ✓ Communication Skills-II
- ✓ Attitude Building-II
- ✓ Presentation Skills-II
- ✓ Etiquettes & Manners-I
- ✓ Negotiations Skills-I
 - Outer Grooming-I
 - Group Discussion-I
 - Interview Skills-I
 - Resume Building-I

Information and Communication Technology

Credit-3

✓ Operating System :

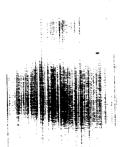
- > Definition of Operating System (OS)
- > Types of OS
- > Single user -Multi user
- > Multi Programming and Multi Processing
- ✓ Computer and Communication:
 - Need of Data Transmission
 - Data Transmission Media
 - Baud rate and Bandwidth, Digital and Analog Transmission Serial and Parallel Data Transfer. Protocols, MODEM.
 - > Networking of Computers : LAN, WAN, MAN, Blue tooth



OBJECTIVES -

- To provide practical understanding of the Latest Products /Materials, available in the market.
- To expose students about application of products/materials on the basis of its functionality with the help of sites/industry visits.

This course will involve guided site visits to understand availability of interior products and comprehend basic services integral to simple interiors.



Dy Registrar

(Academic)

(Academic)

(Academic)

(Academic)

(Academic)

(Academic)

(Academic)

BAOC (INTERIOR DESIGN) SEME-

OBJECTIVES - At the end of this course the students should be able to Use basic photo-editing software. Create basic 3 dimensional drawings using CAD. Connecting from one file format to another. Take printouts using a plotter. Introduction to few basic photo editing software's. Use basic applications of Adobe Photoshop to manipulate pictures and drawings. 2D to 3D conversion, perspective view. Understanding CAD 3D Learn various 3D commands their function and application. Understanding coordinate systems. Working on layers. Drawing 3D Model using different softwares. Interface between different softwares. Various file formats and their usefulness. Taking printouts using drawing plotter.

BR-DESIGN) SEM

BID-12 MATERIALS & PRODUCTS FOR

To acquaint the students to building materials used in interior works.
 To familiarize the students with construction techniques for use of the above materials in building interiors.

CONTENTS. -

Building Materials for Interiors -

Materials related to False Ceiling, Partitions, Flooring, Acoustics etc.

Wood & wood products.

Basics of Construction (Interiors) -

Reinforced Cement Concrete and Reinforced Brick Concrete: Types,

Mixing, Curing, Water Cement Ratio, Qualities and Workability.

D.P.C: Introduction A proof course, awareness about sources and

Dy. Registrar
(Academic)
University of Rajasthan.
O JAIPUR



effects of dampness, BrickWork: Brick Terminology, Simple Bonds in Brick work and Details at junctions and Quoins. StoneWork: Elementary Stone Masonry, Types of joints, Random. Square and Ashlars Stonework. Openings in walls. OBJECTIVES - After completion of this course, the student should be able to -Demonstrate understanding of anthropometrics while preparing interior layouts. Prepare designs of cabinet work/furniture used in small spaces. Distinguish the ambiance required for different uses. Prepare interior layouts for small spaces with sensitivity to functionality and aesthetics. Prepare the sample boards for the interior design exercise. CONTENTS -Basic concepts of ambiance (explained through photographs/site vists). Design of cabinetwork for bedroom/drawing room/kitchen/clinic/kiosk etc. Layout planning of a small house/apartment/shop/office/clinic or alike. (The course instructor is expected to develop in writing various design exercises giving exact deliverables & stages of submission) **OBJECTIVES:** To develop the understanding about the need of specifications for any interior project. To develop the skill to read & write the specifications for various interior works.

CONTENTS:

Definition, Importance and scope of the subject.

Correct form of writing specifications -avoiding ambiguity and conflicting statements.

Uses of standard specification viz; drafted by C.P.W.D etc.

Writing detailed specifications for basic interior works e.g. plastering,

Dy. Registrar
(Academic)
University of Rajasthan
PAIPUR

61

painting, false ceiling, paneling, flooring etc.

Market Survey – Making of Sample Plates.

B.VOC. (INTERIOR DESIGN) SEM -3

BID-16 GENERAL EDUCATION-III

OBJECTIVES -

The objective of this paper is to enable the students to interact and communicate with the interment and labor in field of construction work.

The multiplicity of interrelated factors which influence the behavior and performance of people as members of work organizations.

CONTENTS -

• Health and Physical Education

Credit-1

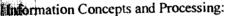
Soft Skill

Credit-8

- ✓ English Fluency Development-III
- ✓ Building Self Confidence-III
- ✓ Communication Skills-III
- ✓ Attitude Building-III
- Presentation Skills-III

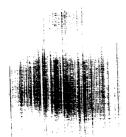
Information and Communication Technology

Credit-3



- Definition of Data, Information
- Need of Information
- Quality of Information
- > Concepts of Data Security, Privacy, Protection
- > Computer Virus and their types
- Scanning & Removing Virus
- ✓ Word processor
 - > Introduction to MS-Word
 - Starting MS-Word
 - > Special Features of MS-Word
 - > Using Help
 - Opening Document, Typing and Editing
 - Copying, Inserting, Moving, Deleting
 - Copying from One Document to Others.

Dy Registrar
(Academic)
University of Rajasthan
© JAIPUR



- Undo, Redo, Spell Check, Find and Replace
- > Formatting
 - Characters and Fonts
 - o Spacing
 - c Removing Characters Formatting
- Inserting Symbols. Paragraphs.
- Page Setting, Header and Footer
- Page Breaks, Borders and Shading
 - Print Preview and Printing
 - Tables and Columns

Mail Merge

Auto Text and Auto correct

Introduction to Macro



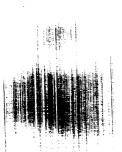
BIVOC (INTERIOR) DESIGNOSEA

Friendschopparts and amanicular modern and products.

OBJECTIVES -

- To provide practical understanding about the use of artifacts, paintings and Graphics in interior spaces
- To expose students about application of art in Interior Design by studying the works of traditional & contemporary interior designers with the help of site visits.
- To develop the photography skills among students to appreciate and document the traditional & contemporary works in India.

This course will involve guided site visits aims to familiarize students with traditional arts and crafts of India used in vernacular construction, historic buildings and contemporary traditional contemporary traditional



Dy Registrar
(Academic)
(Academic)
(Academic)
(Academic)
(Academic)
(Academic)
(Academic)

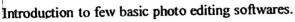
OBJECTIVES – At the end of this course the students should be able to
Use basic photo-editing software.

Develop an understanding of software assisting in 3-Dimensional design

Explore computer modeling techniques using CAD and 3Ds Max

Connecting from one file format to another.

Take printouts using a plotter.



Use basic applications of Adobe Photoshop, Coral Draw to manipulate pictures and drawings.

3D-Max: Understanding 3D, theory behind 3D modeling. Preparing for construction of 3D models. Construction of 3D surface models-extrusion, wire frame, creation of a shell, elaborates surfaces.

Concepts behind solid modeling, composite solids creation and modification, solids display and inquiry.

Introduction to materials, mapping and lighting - Assigning - materials, Creating Transparencies, Mapping and mapping co-ordinates, Lighting effects, Shadow maps, rendering using active shades and depth of

ield. Taking printouts using drawing plotter.

DESIGNA SEM --

TEMPANIONS

To familiarize students with traditional arts and crafts of India used in vernacular construction, historic buildings and contemporary designs in different climatic regions of India.

CONTENTS:

Conceptual Framework of Interior Design specially Climate as a major consideration.

Study of Vernacular Architecture.

Interiors as an expression of Social customs.

Study of Traditional and Contemporary life style and its influence in

interior spaces

Introduction to Heritage Interiors.



Dy. Registrar

(Academic)

(Academic)

(Aliversity of Rajasthan

(Aliversity of Rajasthan

OBJECTIVES:

To initiate the students into theory and practice of estimation and quantity surveying.

To familiarize students about the various codes for cost estimation like DSR, BSR

To impart knowledge about the use of computer softwares (excel, word) to prepare estimates.

estimates-types of estimates-approximate and detailed methods of estimating- plinth area method, carpet/floor area method cubic content method, approximate quantity method and number system, detail estimates-procedure of estimating taking out quantities schedule of rates.

Estimation of various ordered quantities.

Principles of analysis of rates.

BYOC (INTERIOR DESIGNASEM)

BIDED ACTIVITY SEQUENCING AND CHECKINS EDUCATE WORKS

OBJECTIVE

S:

To understand the Quality System Standards for Construction Activities.

To impart knowledge required to execute any activity.

To familiarize students about the method statements & checklist required to successfully finish the activity within the certain quality standards.

Quality System Standards for construction activities -

☐ Introduction to concept of Quality Design in building design & construction.

Product Quality Inspections & Tests.

Problems of Rework, wastage & compromise in product quality approach.

Problems of inspections/Test oriented approach in service quality.

Systems approach to Quality.

Quality Systems Concepts for Building design, construction & management activities.

Aspects of QA/QC for of major building items like Woodwork, Brickwork, Steelwork, Flooring, Finishing, Internal Water Supply, Sanitary and Electrical



Dy. Registrar
(Academic)
(Academic)
(Academic)
(Academic)
(Academic)
(Academic)
(Academic)
(Academic)

Services.

- Quality of maintenance works, checklists, Contractual implications of quality
- Identification & Rectification of works in interior works.

BID-20 GENERAL EDUCATION - IV

jective of this paper is to enable the students to interact and communicate with ment and labor in field of construction work.

The multiplicity of interrelated factors which influence the behavior and performance of people as members of work organizations.

CONTENTS -

Health and Physical Education

Credit-1

Human Values in Education- II

Credit-2

Soft Skill

Credit-6

- English Fluency Development-IV
- **Building Self Confidence-IV**
- Communication Skills-IV
- Attitude Building-IV
- Presentation Skills-IV
- Etiquettes & Manners-II
- Negotiations Skills-II
 - Outer Grooming-II

 - Group Discussion-II erview Skills-II
 - Resume Building-II

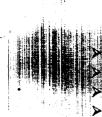
Information and Communication Technology

Credit-3

- Internet:
 - > Introduction to Internet
 - > Bridges, Routers, Switch, Gate way
 - > www, Web Site, URL
 - > e-mail. e-Commerce
 - Web browsing, Web page
 - Introduction to Hyper text & HTML
 - Electronic Spread Sheet

sity of Rajasthan

66



Introduction to MS-Excel .

Working with Spread Sheet

Editing the Worksheet

- Worksheet Formatting
- > Formula Entering
- > Function Wizard
- > Saving and Printing Work Book
- Analysis Tools
- Data Tools
- Charts
- Linking Work Sheets
- > Report Wizard
- > Data Base Application

Data Base Components

Working with Database

Creating Excel Database

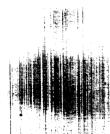
Adding Records using Data Form

Deleting Records using Menu Command

Deleting Records using Data Form

Editing Records

Finding Records based on Criteria



OBJECTIVES -

- To enable students to understand the principles and installations of general and specialized services in the interiors.
- To expose the students to various ways to provide information on the principles of water supply, firefighting and sanitation.
- To develop the understanding of layout, functioning and application of utilities and services in the interiors.
- Preparing Coordinated services drawings with relate to Interiors.
- To familiarize students about the various codes (NBC, BIS, IS).

This course will involve guided site visits aims to familiarize students with the integration of the students with the integration of the students with the integration of the students will involve guided site visits aims to familiarize students with the integration of the students will involve guided site visits aims to familiarize students with the integration of the students will involve guided site visits aims to familiarize students with the integration of the students will involve guided site visits aims to familiarize students with the integration of the students will involve guided site visits aims to familiarize students with the integration of the students will be supported by the students will be supp

Dy. Registrar
(Academic)
University of Rajasthan
O JAIPUR



DR DESIGNOSIA

OBJECTIVES - After completion of this course, the student should able to

- Describe the roles & responsibilities of supervisor on a small project site.
- Give clear instructions to the subordinates and workers based on superior's directions.
- Assign work to different workers on a small interior project.
- Explain the drawing/design to workmen.
- Document the work progress on day to day basis.
- Prepare short reports of work progress for information of superiors/clients.

CONTENTS -

Roles & responsibilities of supervisor on interior project site.

Basics of leadership in context of small team of workers.

Interpersonal communication and skills.

Interpreting drawings & explaining layouts on site.

Motivating workmen.

reparing periodic progress reports as per given format.

Using checklists for supervision.

પ્રકાર કારફા**લ(૭)(ફેક)** કરાલ કરાક પ્ર

OBJECTIVES -

- To provide skills for designing larger scale institutional and commercial projects with emphasis on detailing, custom designs etc.
- To develop skills for comprehensive design approach and to integrate dimensions of functions to interior spaces and interior elements of space making.
- To develop the skill of design vocabulary, enhancement and sensitization of student in design preparation and its relation to tradition, culture, behavior patterns, use of spaces etc.

v focus should be on -

Interior Construction Detailing

Way finding/signage and graphic identification

☐ Decorative Accessories

□ Building Codes.

Dy. Registrar
(Academic)
University of Rajasthan
JAIPUR

Rendering (hand and computer generated).

Custom designed furniture and cabinetry

Selection of sustainable/green materials

The list of suggested topics to be covered as design problems:

- Hospitality Design, Retail Design, Healthcare Design and Office systems
- Urban Interiors Shopping malls, streets, Town squares, Fair grounds
- Interior Ports air ports, Bus stops, Railway stations, boats/ports
- Exhibition displays Urban Level & National Level.
- ☐ Mobile units buses, cars, railway coaches etc.

B.VOC. (INTERIOR DESIGN) SEM -5

BID 23 PREPARING BILL OF QUANTITIES

OBJECTIVES -

- To interpret drawings and recognize items of work in place and categories them into elements.
 - To equip the students with the basic understanding of working out quantities of different materials.
 - To familiarize the student about the units of work and the various methods of measurement required to prepare bill of quantities.
 - To develop the skill to prepare bill of quantities using MS Excel.

CONTENTS -

- ☐ The bill of quantities types, functions and uses.
- The working up process to the bill of quantities
- Types of measurements, modes of measurements: methods of taking out quantities preparation of schedule or bill of quantities.
- Rate analysis of various items of work: preparation of various items of work in the interior works.
- Prepare a draft Bill of Quantities (BQ) for some of the interior works.
 Basics of contracts.
- B VOR ENERIOR DESIGNUSEM 5

RID 24 MANAGING SMALL BIKSINESS

NES:-

provide Knowledge about the methodology of executing a Project, greatly enhances the professional ability of an Architect.

To expose the students to the currently prevalent techniques in the

(Academic) University of Rajasthan O JAIPUR Characteristics of a professional/office
Office and its management
Structure of an Architect's office
Office Correspondence with Client, Competent Authority, Materials suppliers, Contractors, Expert services agencies.
Organizing work, staffing, delegation and decentralization.
Filing and Indexing.
IT application in office management and procedure.
General Accounting.
Overview of taxes prevailing for interior works.

B.VOC. (INTERIOR DESIGN) SEM -5

BID-25 GENERAL EDUCATION-V

OBJECTIVES -

bijective of this paper is to enable the students to interact and communicate with the statement and labor in field of construction work.

I multiplicity of interrelated factors which influence the behavior and performance of people as members of work organizations.

CONTENTS -

• Health and Physical Education

Credit-1

Soft Skill

Credit-8

- ✓ English Fluency Development-V
- ✓ Building Self Confidence-V
- ✓ Communication Skills-V
- ✓ Attitude Building-V
- ✓ Presentation Skills-V
- ✓ Etiquettes & Manners-III
- ✓ Negotiations Skills-III
- ✓ Outer Grooming-III
 - Group Discussion-III

Interview Skills-III

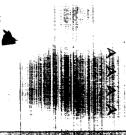
Resume Building-Ill

Information and Communication Technology

. Credit-3

✓ Power Point:

Dy. Registrar
(Academie)
Volumersity of Rajasthan
OJAIPUR



Introduction to Power Point Creating a Presentation/Slide Adding Animation in Slide Running a Slide Show

B VOC (KÜÜRÜĞE DESKIN) SEM.

OBJECTIVES -

- To understand the electrical services and utilities generally installed and special types of services and facilities in the interiors and focusing on the principles as well as practical aspects and solutions.
- To develop the understanding of layout, functioning and application of utilities and services in the interiors.
- The course intends to integrate the knowledge of electrical and HVAC services in buildings and to enable a student to take the appropriate decisions at the planning stage from Mechanical & Electrical point of view.
- To familiarize students about the various codes (NBC, BIS, IS).

This course will involve guided site visits aims to familiarize students with the integration



Dy. Registrar
(Academic)
University of Rajasthan
JAIPUR



DESIGN) SEM -6

ario ana

OBJECTIVES - At the end of this course the student should be able to

- List basic laws and regulations related to HSE and briefly describe their application on construction sites of small scale
- Apply their knowledge of HSE on construction site during the process of supervision.

CONTENTS -

Preview of laws related to construction industry:-

The building & construction workers act 1996.

Health and Hygiene.

Recognizing Safety Hazards.

Manual Handling.

Hazardous Substances.

Noise in the Workplace.

Machine and Equipment Safety.

Personal Protective Equipment.

Emergency Procedures.

Sensitization to structural safety.



B. VOC. AINTERIOR DESIGNASEM—(

BIBY DESIGN PROJECT WORK

OBJECTIVES -

- To prepare a student to independently handle and present all aspects of interior design: from its evolution to final solution in totality;
 - To integrate all aspects about a building design and its workings, including service details, innovative structural systems and materials etc.
 - To develop assimilation, synthesis and application of research in interior design.

CONTENTS -

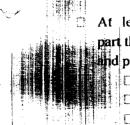
Each student is expected to prepare a design project based on the preliminary work undertaken in the Interior design studio under an approved guide.

Work should reflect the knowledge gained from all the courses undertaken by the student in all the previous semesters.

the particulars of the schedule, content, presentation, format etc is to be decided by the department from time to time and shall be strictly followed.

Dy. Registrar
(Academic)
University of Rajasthan
JAIPUR

72



At least two of the following items, for complete design or an approved part thereof, should be covered in full detail and included in the design presentation, along with the final design proposal-

- Detailed estimate and specification.
- ☐ Working drawing and construction details.
- Proposal for various services.
- Proposal for Interior design including furniture, fittings and finishes.
- The design proposal should be prepared and presented with the help of charts, Drawings, perspective views, models and other audio-visual aids. A design report must also be prepared and submitted in one soft copy (on CD) and three hard copies (one to be returned to the student) type written and bound together with prints and photographs of all the drawings & models. The design report should explain the objectives, design concept/approach, design proposals,

B.VOC. (INTERIOR DESIGN) SEM - 6

BID-28 MEASUREMENT & BILLING

OBJECTIVES -

To develop techniques of estimating and costing related to the interior projects.

To provide basic understanding about measuring different items, Client billing

Sub - Contractor Billing.

- SI measurements system, SI nomenclature methods. Dimensional and modular coordination, modules and modes of measurements practiced by various agencies. Specification types, specification contents, standards developed by trade and industry, government agencies.
- Introduction of DSR.
- Accounts: Explanation of ordinary terms used in book keeping, cash book, work order, measurement book, petty cash and imprest, classification of stores, receipts and meaning of rate analysis.
 - Client Billing.
 - Sub-Contractor billing.

B. VOC. (INTERIOR DESIGN) SBM - 6

BID-29 PROFESSIONAL BEHAVIOUR

Demonstrate appropriate etiquettes and behavior in professional situations.

To impart awareness and technicalities of code of conduct in professional practice.

Dy. Registrar
(Academic)
University of Rajasthan
O JAIPUR

CONTENTS



Preview of corporate expectations especially in context of different cultures Gender sensitive language and behavior multicultural sit,

Jelephonic Conversation and etiquette.

riquettes for email and internet usage during professional work.

Professional behavior & Ethics.

Career opportunities, styles of interior design practice, relationship between client and professional, Fee Structure.

Preliminary knowledge of Consumer protection Act and other related acts on Interior

Designers.

Handing over projects.

B.VOC. (INTERIOR DESIGN) SBM - 6

BID-30 GENERAL EDUCATION-VI

OBJECTIVES -

The objective of this paper is to enable the students to interact and communicate with management and labor in field of construction work.

The multiplicity of interrelated factors which influence the behavior and performance of persons as members of work organizations.

Health and Physical Education
 Human Values in Education- III
 Soft Skill
 Information and Communication Technology

Credit-1

Credit-2

Credit-6

Credit-3

NOC INTERIOR DESIGNOSEM

OSL-6 ONSTREMEARINING SESSIONS -(Demarcation of Design and understanding coordinated drawings)

OBJECTIVES -

To develop the understanding of layout, functioning and application of utilities and services in the interiors.

The course intends to integrate the knowledge of services in buildings and to enable a student to take the appropriate decisions at the planning stage.

To familiarize students about the various codes (NBC, BIS, IS).

will involve guided site visits aims to familiarize students with the integration

Dy Registrar
(Academic)
University of Rajasthan
B JAIPUR

74

17