SHRI VASANTRAO BANDUJI PATIL TRUST'S

APPASAHEB BIRNALE COLLEGE OF ARCHITECTURE, SANGLI

(Approved by AICTE, C.O.A New Delhi, Affiliated to Shivaji University Kolhapur)
District – Sangli 416416

Criterion II

Teaching- Learning and Evaluation

Key Indicator

2.6 Student Performance and Learning Outcome

ESTD. 1993

SHRI. VASANTRAO BANDUJI PATIL TRUST'S

APPASAHEB BIRNALE COLLEGE OF ARCHITECTURE, SANGLI.

(Approved By A.I.C.T.E.,C.O.A. New Delhi, Affiliated to Shivaji University, Kolhapur.)
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CRITERIA II

Key Indicator 2.6 STUDENT PERFORMANCE AND LEARNING OUTCOME

ANNEXURE – 2.6.2

2.6.2 Attainment of POs and COs are evaluated.

The attainment of the program Outcomes, Program specific outcomes and course outcomes are evaluated by the ABCA institute using following parameters:

1. Periodic evaluations/ Continuous Assessment
2. Drawings - Presentation drawings, Construction drawings.
3. Attendance and fraction marking head
4. Architectural design portfolios.
5. PowerPoint presentations of different subjects
6. External Examiners appointed by Shivaji University
7. Results
8. Feedback from faculty members Juries conducted,

1. Periodic evaluations/ Continuous Assessment:
The assessment of the work produced by students is evaluated at intervals. The course out comes as prescribed by Shivaji University Kolhapur are evaluated based on the tasks performed by the students given through the assignment briefs.

2 Drawings:
Drawings are a crucial component of the program's outcomes as well as those from several courses like Graphics, Architectural Drawing, Building Construction Technology and Materials, Building Services, Working Drawings, and Architectural Design. These drawings are assessed and checked in accordance with the course requirements, and attainment is confirmed with regard to the content anticipated, as evidenced by the understatement in the drawings and presentation.

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3. Attendance and fraction marking head:
Attendance in class in regular lectures helps students to understand the topic in detail and which helps them to get progressive markings.

4.Architectural design rendered portfolios and models:
The attainment of the Program specific outcome is dependent on the performance of the student in the course- Architectural Design. The scope of this subject in course spanned over First to Final year, in this subject shows the inputs from all other subject courses for that year. This subject clearly indicates the application of the other subjects; hence the attainment of program specific outcomes could be evidently seen in the final Architectural Design portfolio of that year.

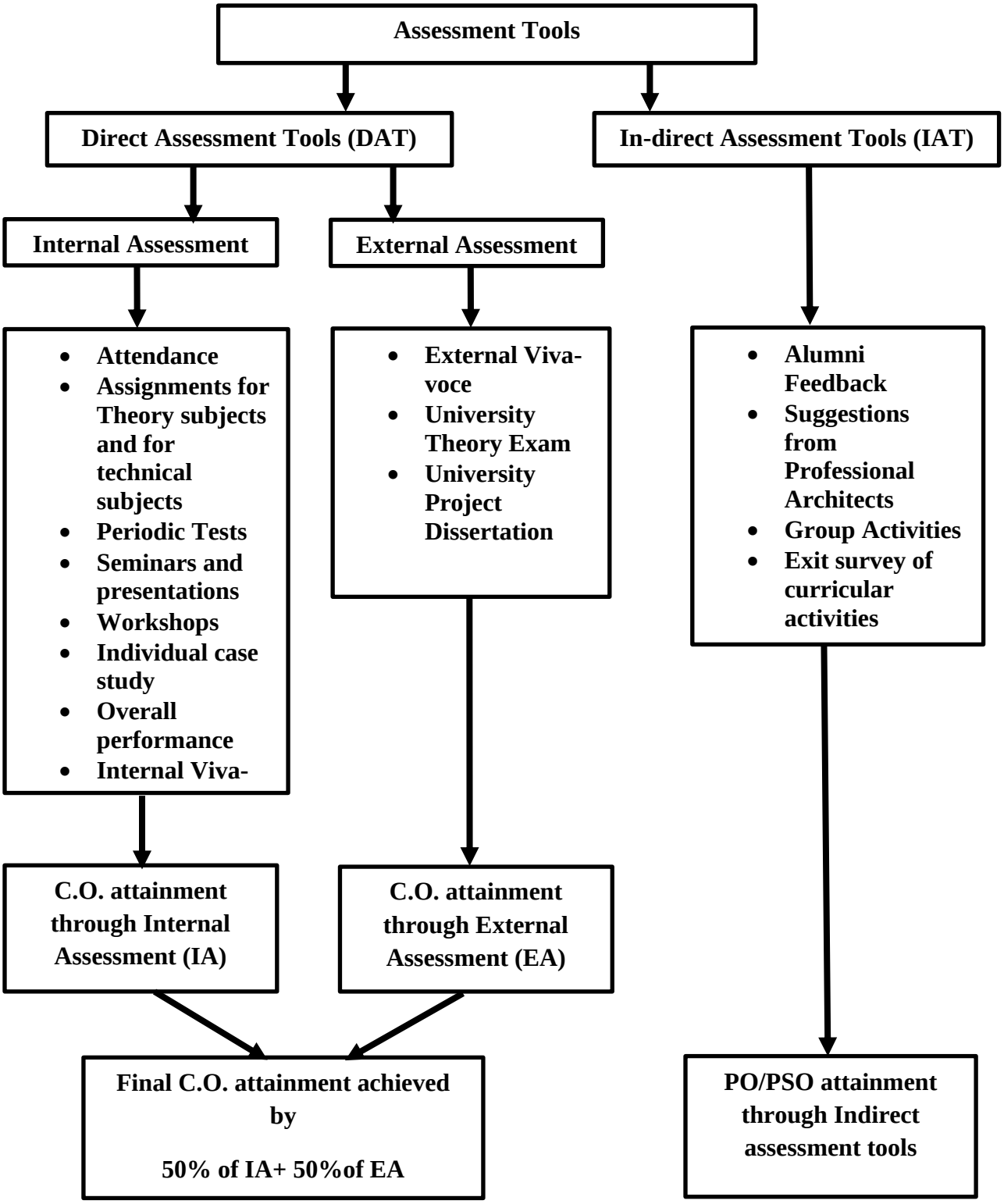
5.PowerPoint presentations of different subjects:
Students must show their work in power point presentations for a variety of courses. These presentations make sure that students have the presentation skills which are crucial for success in the workplace as well as the course and program information.

6.Feedback from faculty members, Juries conducted:
Institute conducts juries where faculty members, practicing architects and professionals assess students work. The feedback of these juries is given to the students for improving the performance. These intermediate juries help students to attain the require course outcome and program specific outcomes.

7. External Examiners appointed by Shivaji university:
Shivaji University appoints examiners for various courses for end each semester examinations. These examiners evaluate students work based on the Course outcome prescribed by Shivaji university. The evaluation and assessments by these examiners are conducted as oral examinations which is Viva-Voce and by checking the semester work of the students.

8. Result: The Shivaji university conducts examinations at the end of each semester. The external examiners are appointed for these examinations to assess the final output of the students for each Course. The results are declared by Shivaji university. The student's success in these examinations ensures the attainment of the program specific outcomes.

PROCESS OF ATTAINMENT

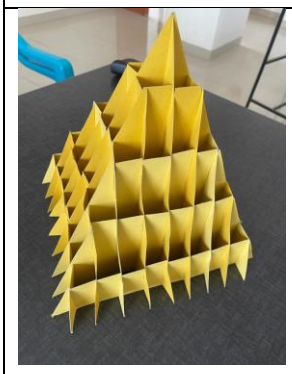


Following Course attainments are prescribed by Shivaji University Kolhapur for the various courses named as '***subjects'*** by university. The Syllabus gives the course outcomes and the submittal requirements for the students. On the completion of these, the attainment is established to be achieved.

Architectural Design	
Architectural design I  	Minimum 8 tasks based upon elements and principles of composition on A2 sheets and/or models out of different soft materials.
	Minimum one simple spatial design exercise such as seating area in public space, bus shelter, kiosks, play area, entrance gate etc. demonstrating the application of the design principles and communicated effectively through two and three-dimensional hand done drawings, sketches and models.
	Minimum 3 number of assignments to cover the study of forms and spaces and principles of organization, scale and experience, etc. on A3 size sheets and/or models.
	Book reading and its interpretation with imagination. Bus stop analysis and observations of public with their behavior in context of time. Map drawing. Origin & destination to increase observations identifying and drawing in plan. Colour patterns and shades along the road side identifying architecture. Need of discipline in doing submissions by elaborating in real construction site project it's working.
Architectural design II 	One spatial/ building design projects with single use spaces approximately 80-120 sq.m such as café, reading hall, parking layout, tourist facility, public toilet etc. preferably in the context of settlement/community study carried out and communicated effectively through graphical drawings, two and three-dimensional sketches, models and narratives. Identifying different structure of famous architects, and discussing the same with reference to construction techniques. Identifying different structure in different climatic conditions in India, discussing about material used, elaborating sun path diagram and its importance in planning building envelope. Creating shade and discussing the same with reference to construction techniques. Identifying different structure in different climatic conditions in India, discussing about material used, elaborating sun

	path diagram and its importance in planning building envelope. Creating shade and discussing the same with reference to construction techniques. To introduce the students to the fundamentals and principles of basic design and to enable them to undertake design by application of basic design principles.
Architectural design III	Graphic documentation and analysis of the settlement study and along with a short-written report with one design assignment related to the settlement studied.
Architectural design IV	Minimum one architectural design project (other than the one mentioned above) with multicellular multi-level spaces such as primary school, hostel, sports facility, resorts, medical facility etc. approximately 1000-1200 sq.m. and effectively communicated through architectural graphics, two and three-dimensional sketches, models and narratives. Total No.of sheets :minimum 10 sheets of A1 size
Architectural design V	Architectural design assignments with multi-cellular dual level spaces approximately 300-500 sq.m and communicated effectively through architectural graphics, two- and three-dimensional sketches, models and narratives. Additional one Seskee of short duration. (Time bond problem) use of services topics in this design problem.
Architectural design VI	A major design project of duration 10-12 weeks of campus planning. Example: Residential school, Club, Institutional buildings, Home for the elderly, Community center, Resort etc. • A minor design project of duration 4-6 weeks which could be standalone building on a site with a focus on two to three activities housed in one building with area not less than 1500 sq.m. Example: Diagnostic center, Dining hall, Convenience shopping etc. • One-time bound project of duration around 6 hours. The typology and scale of the project can be decided by the college.
Architectural design VII	A major design project of duration 10-12 weeks of a building complex. Example: Hotel, Hospital, Office building, commercial complex, bus station etc. • A minor design project of duration 4-6 weeks which could be stand-alone building on a site with area not less than 1500 sq.m.
Architectural design VIII	Data collection in groups of three to four students and proper presentation in suitable format.

	Collection and analysis for design of medium size buildings with multi-level planning. The student should learn about collection of data, analysis of data and finalization of requirements of prescribed buildings with actual design problems. Study of works of renowned architects on similar problems, Study of their philosophy and approach (Book and internet case studies) case study of all types of buildings and actual design problems. (Each up to 500sq.mts. and not more than 1000 sq.mts. Considerations for psychological aspects of Architectural space and Aspect of sociology in design to be covered in prescribed theory lectures. Student should be deal with One major design problem with area upto 1000 Sq.mts. The design problems may include I.T. offices, government offices, schools. Recreation and health facilities, pavilions, clubs, other service-oriented buildings etc. Well rendered set of drawings which includes minimum 10 A1 size sheet for assessment.
Advanced Architectural design I Advanced Architectural design II	Understanding typologies of Architectural Design projects in Urban area. Understanding various architectural services such as sewage & sullage disposal, water supply, Electricity, Air-conditioning & firefighting related to the interior layout of the concerned building. Understanding of services shall be reflected in drainage layout, layout of water supply, Electrical layout, layout of air-conditioning & layout for firefighting of the concerned design. MAJOR PROJECT (First): Housing projects, Institutional building projects, educational campuses, Hospitals, Shopping complexes, concert hall, Museum & art galleries involving campus planning etc. it should have built up area in the range of 5000 sq.m. to 6000sq.m. This project will have 60 % weightage of marks. MINOR PROJECT (Second): Detailing of various services mentioned above. A separate portfolio of layout of Architectural services is expected. It will have 40 %weightage of marks Understanding of application of technology, design of structure involving services & interior & landscape design of the concerned project. Study of urban structures, urban continuity, movement structure, landscaping, people &

	vehicular movement's system design, economics, Architectural aesthetics & details. MAJOR PROJECT (First) : Project involving Architectural Design solutions in Urban areas, Development / redevelopment of markets, plazas, city square, transport & public areas, Railway station, Interstate bus terminus, Airport , Sports Stadium etc. It shall have minimum built up area in the range of 7000 sq.m. -8000 sq.m. This project will have 70 % weightage of marks.
Graphics	
Architectural Graphics I Architectural Graphics II 	The purpose of this subject is to develop ability to present all the elements of design in graphic forms to enhance the potential of a student in presenting concepts and ideas in terms of drawing using different techniques. To introduce the students to the fundamental techniques of Architectural drawings and to enhance their visualization skills. Isometric and Axonometric projections. Interpenetration of geometric solids, forms and section of solids. Surface development of simple and complex objects. Application of subject Computer – I in Graphics – I Drafting of measured building elements / small building units using computer. Isometric and axonometric views using computer. Introduction with which student achives skills in fundamentals of measured drawing, format for presentation methods -Techniques of measuring buildings and their details –Measured drawing of simple objects like furniture, ornamentation, measured drawing of building components like column, door, window, cornice, etc. isometric projections of simple construction details of the building components.
Architectural Graphics III Architectural Graphics IV	The study of this subject is continuation of drafting skills, various techniques of presentation with knowledge of perspective. This is continuation and further development of Basic course studied during first year. students generate their skills in perspective drawings- relatively realistic way for presentation. Principles of one point and Two-point perspective of simple objects and building elements. Perspective of interiors and Exteriors using different eye levels.

Building Construction & Material	
Building Construction & Material – I and II	Students understand the basic building elements, their function and behavior Under various conditions with specific reference to load bearing construction. that will help students to develop a clear understanding of the basic principles of construction and materials suitable for load bearing construction. assignments are planned in a such a way that they help students develop and analytical and logical sequence in thinking about structural aspects of architecture. With this course content students use to learn and have an understanding of the properties, characteristics, strength and application of naturally occurring building materials such as Stone, Bamboo, Lime and Mud. Students learn construction details using naturally occurring building materials such as stone, bamboo, mud and lime through drawing as well as doing a literature or live case study. Students are to submit drawing plates comprising of technical plan, elevation and section along with sketches and details showing method of construction.
Building Construction & Material – III Building Construction & Material – IV	This course introduces students to the art and science of building. Emphasis will be placed gaining an understanding of construction materials, methods and the process of translating design ideas into built form. Specific topics are introduced each week. These topics are then further, various design strategies, materials, fabrication techniques, and didactic built works are explored. As both a qualitative and a basic quantitative understanding of elementary systems are mastered, the curriculum shifts its focus on to increasingly complex systems serving entire buildings. The sequence's last two courses develop an understanding of how technical-utilitarian systems are resolved, integrated with other systems. The material in class requires students to have some experience and understanding of architectural design, drawings and details. Students learn construction details using naturally occurring building materials such as stone, bamboo, mud and lime through drawing as well as doing a literature or live case study. Students are to submit drawing plates comprising of technical plan, elevation and section along with sketches and details showing method of construction Drawing sheets and Notes based on the above related topics

	Continuous assessment and marking system which is followed for Internal marking and External exams are based on above topics.
Theory of Structure	
Theory of Structure – I Theory of Structure – II Theory of Structure – III Theory of Structure – IV Theory of Structure – V	This course content has important in making students aware of how structural resolutions are important in realization of architectural design concept. At this stage, students shall be exposed to forces, moments, and resolution of forces. thus students understand basic properties of solids and sections which influence their behavior under the effect of various types of forces. Analysis of trusses: Definition of perfect, deficient & redundant trusses. Analysis of determinate trusses by method of joints, sections and graphical method. Analysis of trusses: Definition of perfect, deficient & redundant trusses. Analysis of determinate trusses by method of joints, sections and graphical method. Properties of sections: center of gravity, moment of inertia, modulus of section, radius of gyration of simple symmetrical and unsymmetrical sections including built up sections. Bending Moment & Shear force: concept of shear force and bending moment. BMD & SFD for statically determinate simply supported and cantilever beams subjected to combinations of concentrated, uniformly distributed, uniformly varying loads. Point of contra flexure in simply supported beams with overhang. Minimum Six assignments based on above topics. Constructional methodology: 1) Precast Concrete elements- advantages & disadvantages 2) Prefabricated steel works- advantages & disadvantages 3) Prestressed concrete structure- Concept, Pre-tensioning & post tensioning, advantages & disadvantages. ` Minimum Six assignments based on above topics.

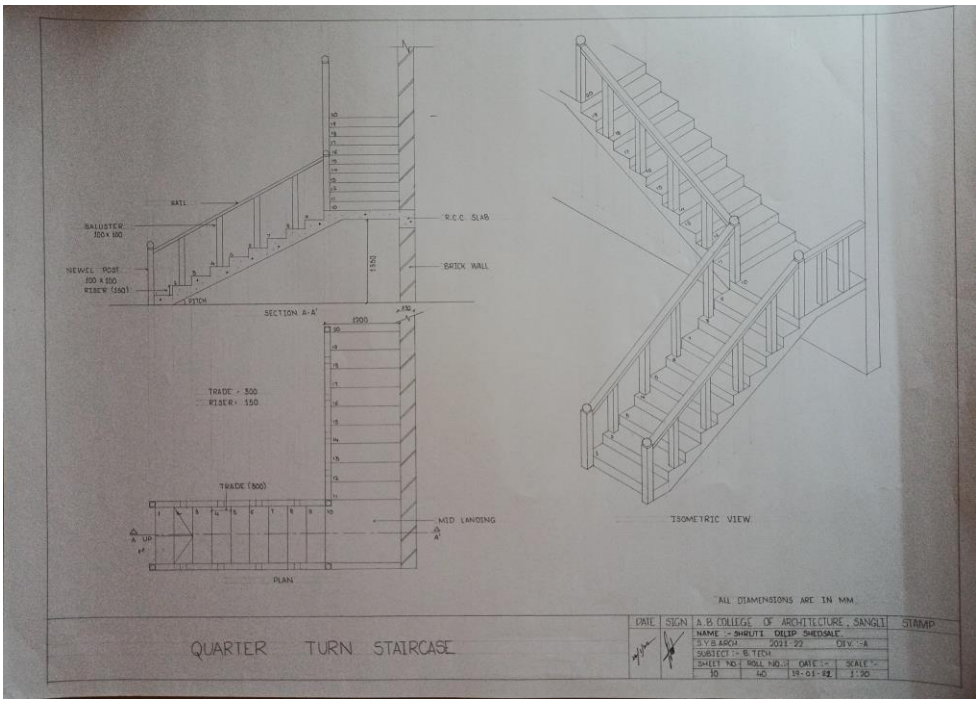
History of Architecture	
Human Settlement & History of Civilization History of Architecture I History of Architecture II	To study of settlement of development of civilization from medieval period to modern period. Study should emphasize a development phase of civilization with reference to socio-cultural, religion, climate geography and geological aspect. Comparative study of various civilization. Overview of early history of the Indian subcontinent bringing out different conjectures. Indus Valley Civilization and its society, culture and urbanism. Vedic culture, settlements and architecture through textual and inscriptional sources as well as conjectures. Outline of textual sources related to architecture and town planning in ancient India. The sessional work shall comprise of individual/ group work of the students completed under the guidance of the subject teacher as follows: 1. Journal: Hand written notes and manually drawn sketches of relevant examples of most of the contents mentioned above. Journal is an individual work. 20 marks 2. Project work: An exploratory or critical report/ graphical presentation/ analytical models/ tutorials/ etc. based on any relevant topic from the contents mentioned above. Subject include the study of various styles in Architecture mainly of Europe and in the Modern period of America and India. Through various ages of Renaissance, Gothic, Industrial revolution and Modern period. The study can actively help in the design process, preservation and evolution in the design process. It is not only the study of building but also the effect of Climate, religious, social and political conditions, technological development, material selection and aesthetical influences on the building design, type, market places, public spaces, city and town planning etc.
Building Services	
Building Services – I Building Services – II Building Services – III Building Services – IV	Study the concepts of Drainage systems, layouts, different accessories, pipes, chambers, maintenance of systems etc. Preparing drainage and water supply layouts of a building site with more than one building on the site based upon the theory learnt and supported with necessary calculations Drawing sheets and Notes based on the above topic. Continuous assessment and marking system should be followed Internal assessment will be based on above understanding of topics.

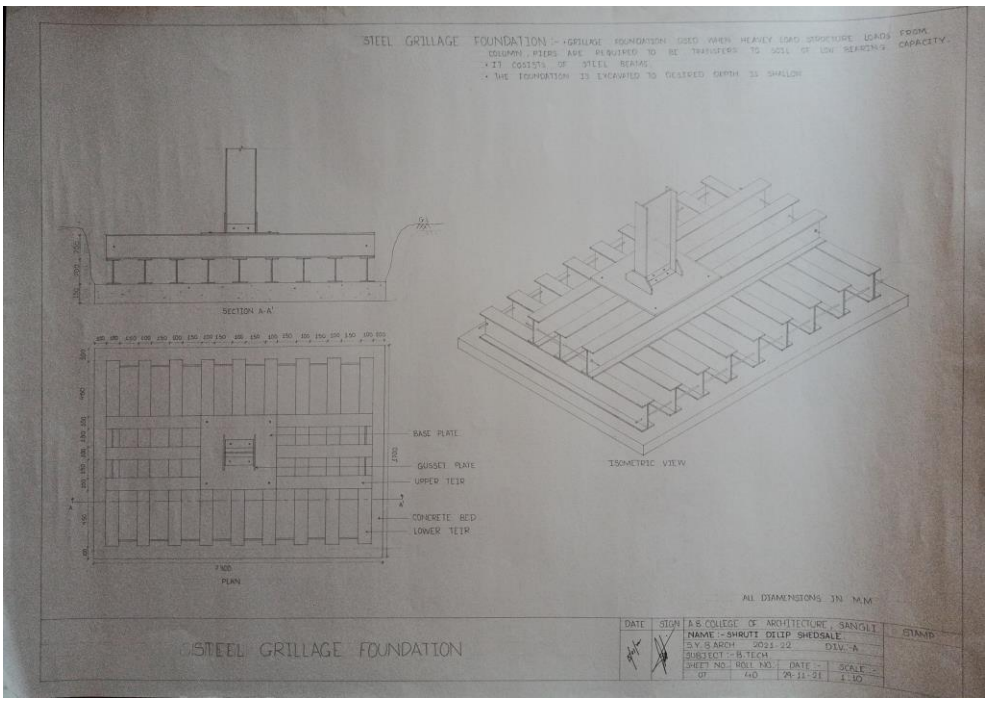
	Sewage disposal of large area (introductory only) understanding and developing the skills in planning skills in Sewage disposal system for housing colony. Small and medium sized project: for smaller and bigger towns and in rural areas. Understanding of Sewage treatment plants, different types. Bye products generated. Gas plant and distribution. Connections of large complexes to Municipal sewers and ventilation of sewers to public sewerage system. Introductory concepts of special types of waste, their treatment and disposal Drainage systems and problems of multistoried buildings. Basic principles of water purification system (Introductory only) plants, water treatment, Filtration swimming pools, water distribution and central stations. Water Supply, distribution for single and multistoried' buildings and industrial projects. Water bye principles and implementations. Standard for hard soft: and potable water, standards for different users Sources of water supply. Design problems based on water supply and drainage for multistoried building and a small colony. By understanding of all above topics students are intended to use this knowledge form services study in to concerned architectural design topics. The faculty is expected to set out the parameters and sub aspects of the particular topic and conduct input and demonstration interactions and define the nature of the sessional work to be done by the students. The students are expected to present the work done in an A1size sheets and notes of 100 pages, to include summary of interactions and sessional work prescribed by the teacher.
Estimation Costing & Specification	
Estimation Costing & Specification – I Estimation Costing & Specification – II	The courses Estimation Costing & Specification - I & II deal with use and application of tools and techniques required for estimation and costing of construction projects and study of financial aspects of building constructions. The course Estimation Costing & Specification – I, at Semester -V, covers aim and objects of estimation and costing and gives an idea to the students to prepare approximate estimates, preparation of outline specifications and detailed estimations of building components & simple buildings. Student shall undertake market survey to study market rates of various materials and labors. The intent of the syllabus is to explore

	concept of quantity & cost calculations with due relation to specifications. Necessity of specification, importance of specification. How to write specification. Types of Specification. Principles of Specification writing. Important aspects of the design of specification. Sources of information. Classification of Specification. Brief Specification for1st class, 2nd class, 3rd class building. Detailed specification for earthwork excavation, plain cement concrete, reinforced concrete, first class and second-class brickwork, damp proof course, ceramic tiles/marble flooring and dado, woodwork for doors, windows frames and shutters, cement plastering, painting & weathering course in terrace. Deriving detailed quantity estimates for various items of work for a single storied building. To include earthwork excavation, brick work, plain cement concrete, reinforced cement concrete works, wood work, iron works, plastering, painting, flooring, weathering course.

Working Drawing	
Working Drawing – I Working Drawing – II	Preparation of architectural working drawings for the resolved schematic design. Drawings to include site plan, center line drawings, building drawings, detailed drawings of specific areas like staircases and wall sections, dimensions explaining the various components, joinery schedule. Design and preparation of detailed drawings of joinery including doors, windows and ventilators. Design and preparation of layouts of service intensive rooms like kitchens and toilets. Design and detailing out of floor, wall and ceiling finishes/ construction/ laying. One working drawing of an architectural design project having load bearing structure with minimum 100 sq. m. carpet area. (4 to 5 drawings). At least two details such as doors / windows / railings / kitchen Otta etc. (2 drawing) An understanding of all the aspects that go into the making of a building through study of drawings related to construction. Ability to resolve spatial concerns with technical aspects of a building. Ability to design and detail components within a building. Sessional work should be planned to cover all the units mentioned in course outline with thrust on skill development, accuracy and understanding of the topics. Minimum of Eight manually drafted and at least one CAD assignment to cover the course outline and based on previous year design problem

PERIODIC EVALUATIONS/ CONTINUOUS ASSESSMENT:





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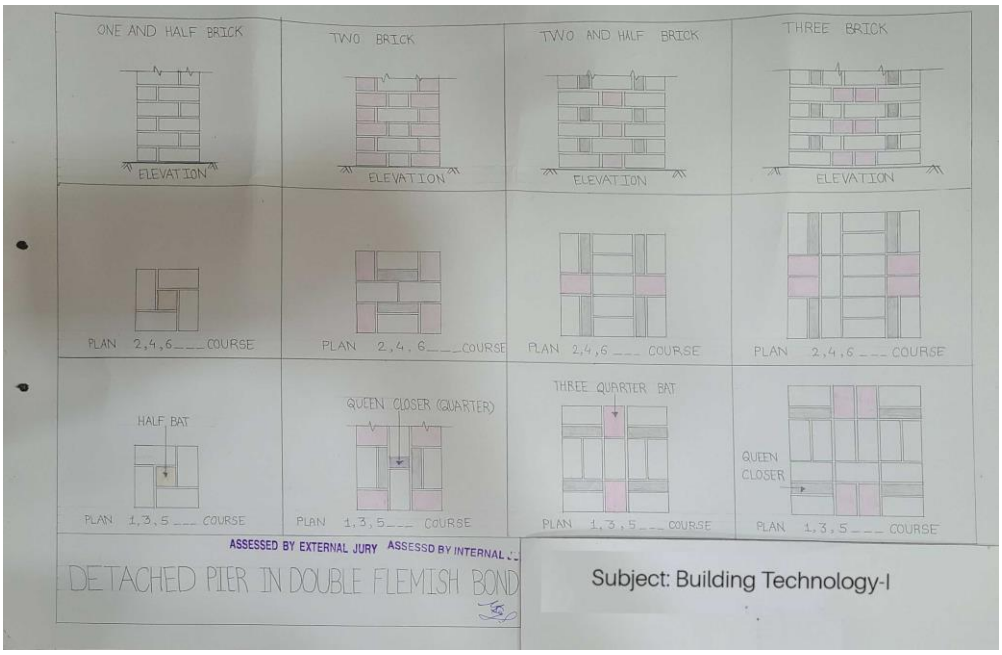

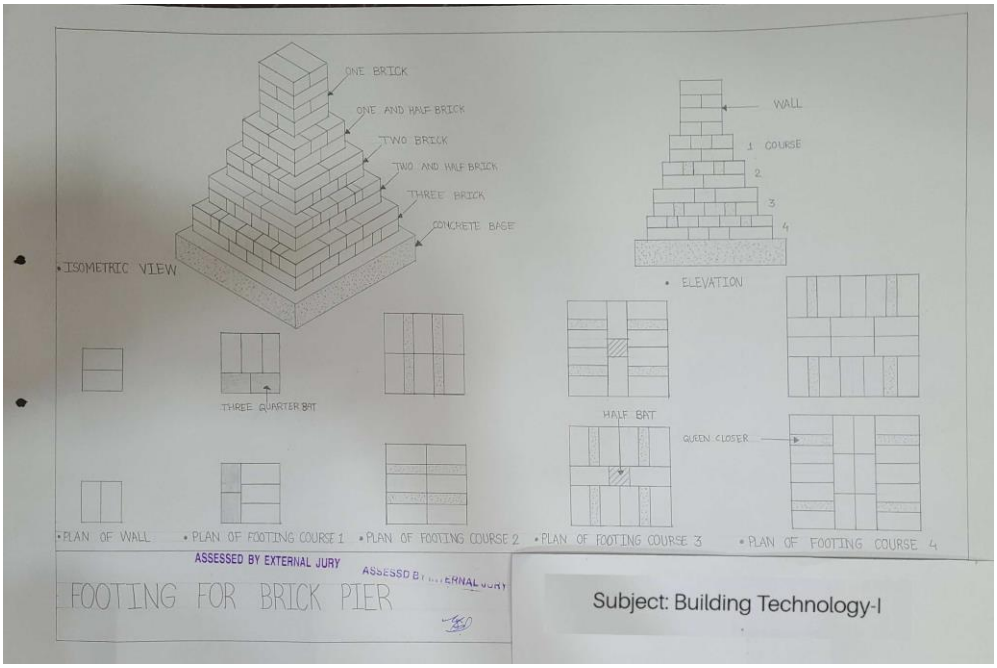

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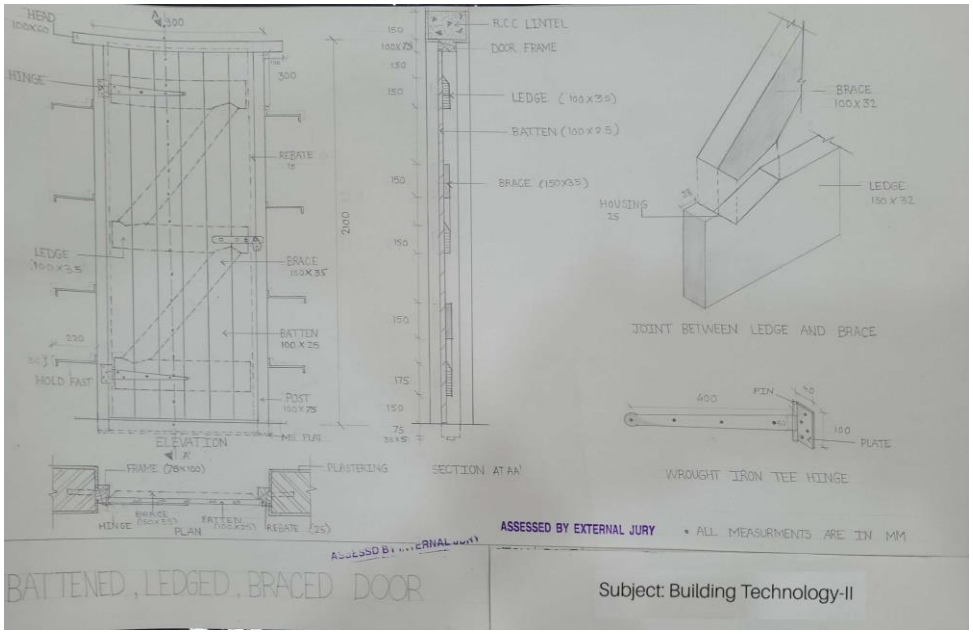

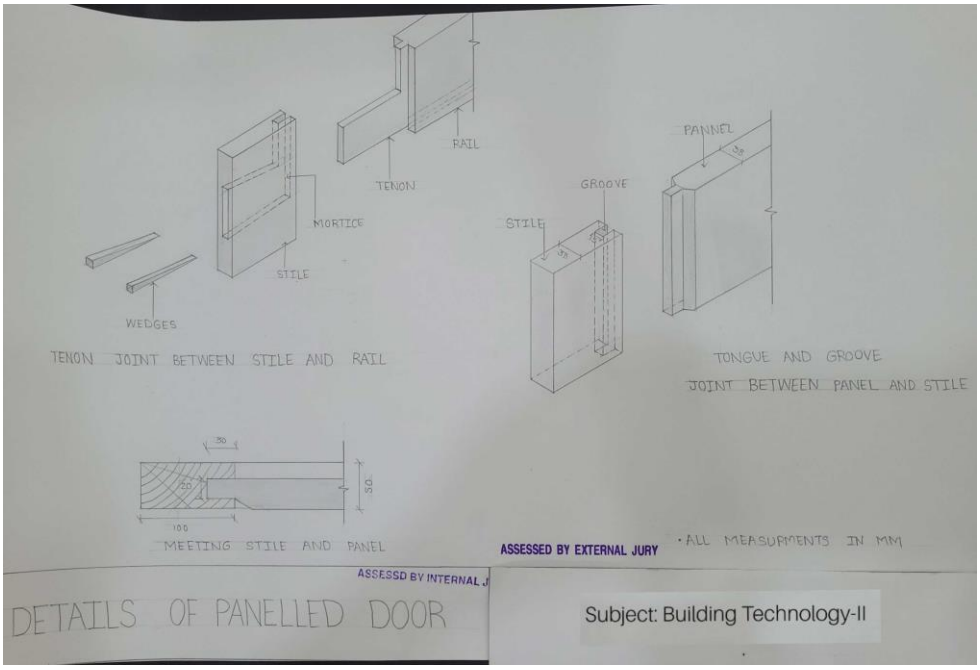

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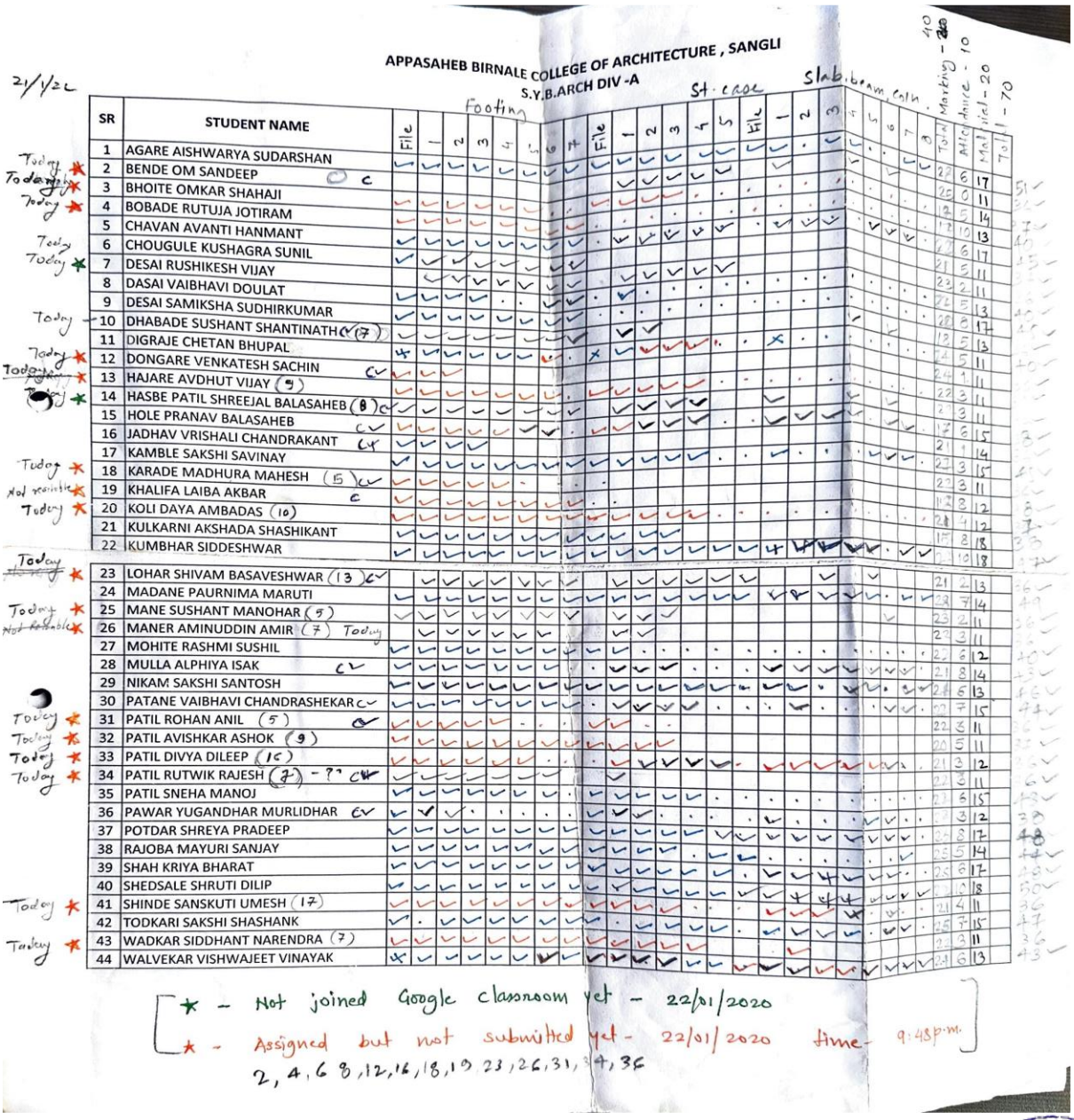

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S.Y.B.ARCH DIV -A

21/1/20

Footing | St. case | Slab, beam, colm

SR	STUDENT NAME	File	1	2	3	4	5	6	7	File	1	2	3	4	5	File	1	2	3	4	5	6	7	8	Total	Attendance - 10	Material - 20	Total - 70
1	AGARE AISHWARYA SUDARSHAN																								27	6	17	51
2	BENDE OM SANDEEP																								25	0	11	36
3	BHOITE OMKAR SHAHAJI																								12	2	14	28
4	BOBADE RUTUJA JOTIRAM																								17	10	13	40
5	CHAVAN AVANTI HANMANT																								21	6	17	44
6	CHOUGULE KUSHAGRA SUNIL																								23	5	11	39
7	DESAI RUSHIKESH VIJAY																								22	2	11	35
8	DASAI VAIBHAVI DOULAT																								24	6	13	43
9	DESAI SAMIKSHA SUDHIRKUMAR																								20	8	17	45
10	DHABADE SUSHANT SHANTINATH (7)																								13	5	13	31
11	DIGRAJE CHETAN BHUPAL																								24	5	11	40
12	DONGARE VENKATESH SACHIN																								24	1	11	36
13	HAJARE AVDHUT VIJAY (9)																								22	3	11	36
14	HASBE PATIL SHREEJAL BALASAHEB (8)																								21	3	11	35
15	HOLE PRANAV BALASAHEB																								17	6	15	38
16	JADHAV VRISHALI CHANDRAKANT																								21	1	14	36
17	KAMBLE SAKSHI SAVINAY																								23	3	15	41
18	KARADE MADHURA MAHESH (15)																								23	3	11	37
19	KHALIFA LAIBA AKBAR																								12	8	12	32
20	KOLI DAYA AMBADAS (10)																								24	4	12	40
21	KULKARNI AKSHADA SHASHIKANT																								17	8	18	43
22	KUMBHAR SIDDESHWAR																								21	10	18	49
23	LOHAR SHIVAM BASAVESHWAR (13)																								21	2	13	36
24	MADANE PAURNIMA MARUTI																								23	7	14	44
25	MANE SUSHANT MANOHAR (5)																								23	2	11	36
26	MANER AMINUDDIN AMIR (7)																								22	3	11	36
27	MOHITE RASHMI SUSHIL																								21	6	12	39
28	MULLA ALPHIYA ISAK																								21	8	14	43
29	NIKAM SAKSHI SANTOSH																								24	6	13	43
30	PATANE VAIBHAVI CHANDRASHEKAR																								22	7	15	44
31	PATIL ROHAN ANIL (5)																								22	3	11	36
32	PATIL AVISHKAR ASHOK (9)																								20	5	11	36
33	PATIL DIVYA DILEEP (15)																								21	3	12	36
34	PATIL RUTWIK RAJESH (7)																								22	3	11	36
35	PATIL SNEHA MANOJ																								23	6	15	44
36	PAWAR YUGANDHAR MURLIDHAR																								23	3	12	38
37	POTDAR SHREYA PRADEEP																								23	8	17	48
38	RAJOBA MAYURI SANJAY																								25	5	14	44
39	SHAH KRIYA BHARAT																								25	6	17	48
40	SHEDSALE SHRUTI DILIP																								23	8	18	49
41	SHINDE SANSKUTI UMESH (17)																								21	4	11	36
42	TODKARI SAKSHI SHASHANK																								25	7	15	47
43	WADKAR SIDDHANT NARENDRA (7)																								23	3	11	36
44	WALVEKAR VISHWAJEET VINAYAK																								21	6	13	43

★ - Not joined Google classroom yet - 22/01/2020

★ - Assigned but not submitted yet - 22/01/2020 time - 9:48 p.m.

2, 4, 6, 8, 12, 16, 18, 19, 23, 26, 31, 34, 35

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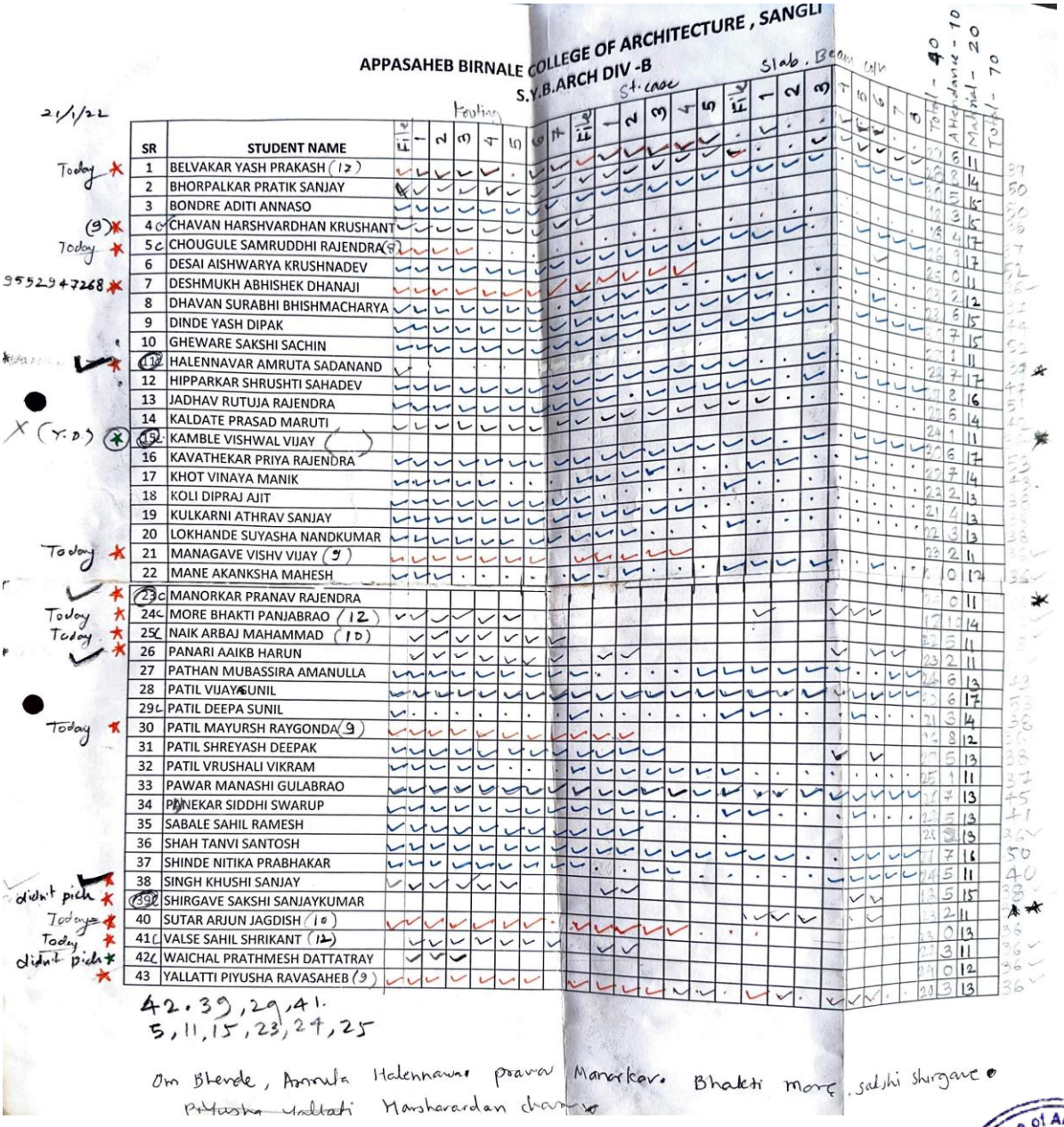

APPASAHEB BIRNALE COLLEGE OF ARCHITECTURE , SANGLI

S.Y.B.ARCH DIV -B

21/1/22

SR	STUDENT NAME
1	BELVAKAR YASH PRAKASH (17)
2	BHORPALKAR PRATIK SANJAY
3	BONDRE ADITI ANNASO
4	CHAVAN HARSHVARDHAN KRUSHANT
5	CHOUGULE SAMRUDDHI RAJENDRA
6	DESAI AISHWARYA KRUSHNADEV
7	DESHMUKH ABHISHEK DHANAJI
8	DHAVAN SURABHI BHISHMACHARYA
9	DINDE YASH DIPAK
10	GHEWARE SAKSHI SACHIN
11	HALENNAVAR AMRUTA SADANAND
12	HIPPARKAR SHRUSHTI SAHADEV
13	JADHAV RUTUJA RAJENDRA
14	KALDATE PRASAD MARUTI
15	KAMBLE VISHWAL VIJAY
16	KAVATHEKAR PRIYA RAJENDRA
17	KHOT VINAYA MANIK
18	KOLI DIPRAJ AJIT
19	KULKARNI ATHRAV SANJAY
20	LOKHANDE SUYASHA NANDKUMAR
21	MANAGAVE VISHV VIJAY (9)
22	MANE AKANKSHA MAHESH
23	MANORKAR PRANAV RAJENDRA
24	MORE BHAKTI PANJABRAO (12)
25	NAIK ARBAJ MAHAMMAD (10)
26	PANARI AAIKB HARUN
27	PATHAN MUBASSIRA AMANULLA
28	PATIL VIJAYA SUNIL
29	PATIL DEEPA SUNIL
30	PATIL MAYURSH RAYGONDA (9)
31	PATIL SHREYASH DEEPAK
32	PATIL VRUSHALI VIKRAM
33	PAWAR MANASHI GULABRAO
34	PANEKAR SIDDHI SWARUP
35	SABALE SAHIL RAMESH
36	SHAH TANVI SANTOSH
37	SHINDE NITIKA PRABHAKAR
38	SINGH KHUSHI SANJAY
39	SHIRGAVE SAKSHI SANJAYKUMAR
40	SUTAR ARJUN JAGDISH (10)
41	VALSE SAHIL SHRIKANT (12)
42	WAICHAL PRATHMESH DATTATRAY
43	YALLATTI PIYUSHA RAVASAHEB (9)

42, 39, 29, 41.
5, 11, 15, 23, 24, 25

Om Bhende, Amruta Halennavar, pravar Manerkar, Bhakti More, Sakshi Shirgave, Piyusha Yallatti, Harsharadan chavan

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V/C. PRINCIPAL,
APPASAHEB BIRNALE COLLEGE
OF ARCHITECTURE, SANGLI

F.Y.B.ARCH

YEAR 2022-23

SUBJECT:

THEORY OF STRUCTURE - II

Assignment - 1 (SFD & BMD)

Assignment - 2 (Moment of Inertia)

Assignment - 3 (stress & strain)

Assignment - 1

Q. What is Bending moment diagram and give its uses?

→ The Bending moment at any cross section of beam is algebric sum of moments of all the forces acting on the right or left side of the section. The bending moment diagram shows where & how the moments will act on the structure i.e how a structure will bend, on application of a load or a combination of various type's of loads.

Uses:

Bending moment diagrams are analytical tools used in conjuction with structural analysis to help perform structural design by determining the key value of shear force & bending moments at a given point of a structural element such as a beam.

Q. What do you understand by shear force diagram & shear force?

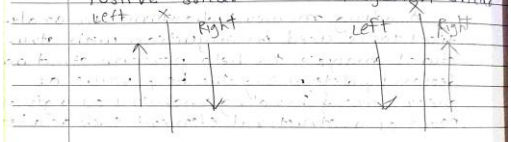
→ Shear force of the beam is algebric sum of all vertical forces on the beam acting on the right or left side of the section. In other words, shear force is resultant vertical force acting on the either side of section of a beam.

A shear force diagram is one which shows variation in shear force along the length of the beam. Bending moment may be defined as "the sum of moments about that section of all external forces acting to one side of that section."

Q. Explain concept of S.F.D & B.M.D along with its sign conventions.

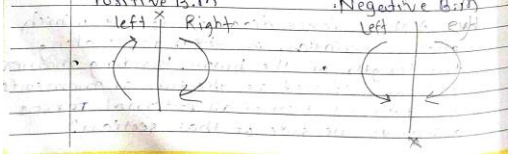
→ S.F.D ⇒ A shear force diagram is one which shows variation in shear force along the length of the beam. Bending moment may be defined as the sum of moments about that section of all external forces actron to one side of the section.

Sign convention:



B.M.D ⇒ The bending moment diagram shows where & how the moments will act on the structure i.e how a structure will bend, on applicadrion of a loadora combmatrion of varrous types of loads.

Sign conventions:



$I_{xx} = 12.86 \times 10^6 + 4.57 \times 10^6 + 12.87 \times 10^6$

$= 30.3 \times 10^6 \ mm^4$

$I_{yy1} = \frac{d_1 b_1^3}{12} + a_1 h_1^2$

$= \frac{20 \times 100^3}{12} + 2000 \times 40^2$

$I_{yy1} = 4.87 \times 10^6 \ mm^4$

$I_{yy2} = \frac{d_2 b_2^3}{12} + a_2 h_2^2$

$= \frac{140 \times 20^3}{12} + 2800 \times 0$

$I_{yy2} = 93.33 \times 10^3 \ mm^4$

$I_{yy3} = \frac{d_3 b_3^3}{12} + a_3 h_3^2$

$= \frac{20 \times 100^3}{12} + 2000 \times 40^2$

$I_{yy3} = 4.87 \times 10^6 \ mm^4$

$I_{yy} = 4.87 \times 10^6 + 93.33 \times 10^3 + 4.87 \times 10^6$

$I_{yy} = 108.07 \times 10^6 \ mm^4$

23/6/22

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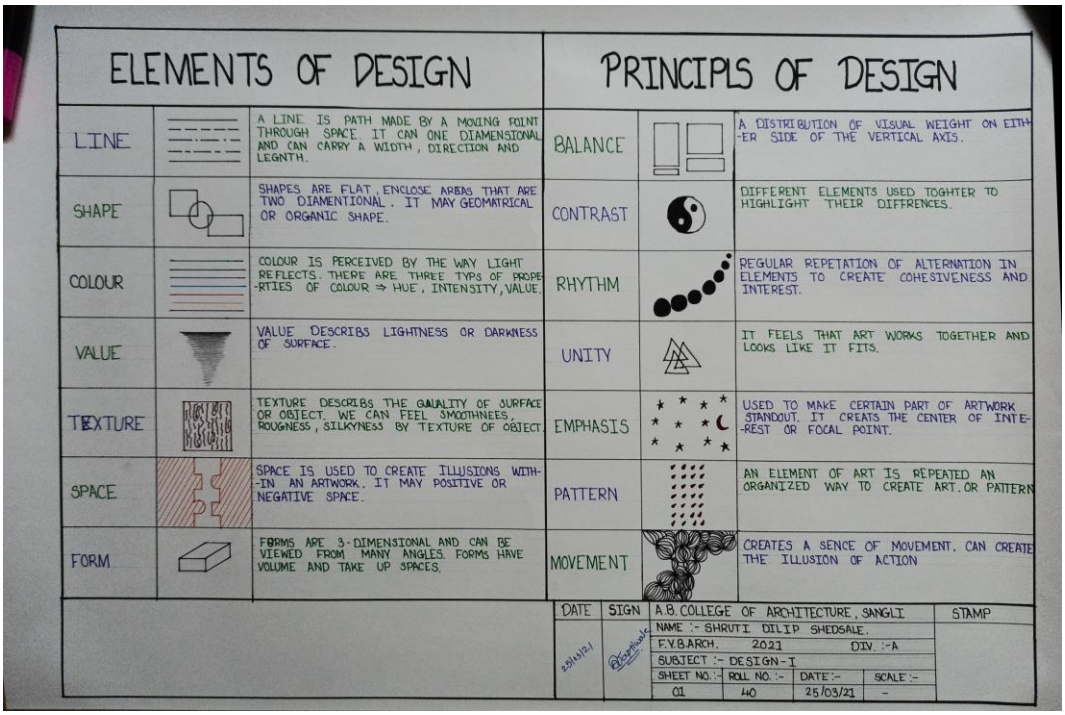
DRAWINGS:



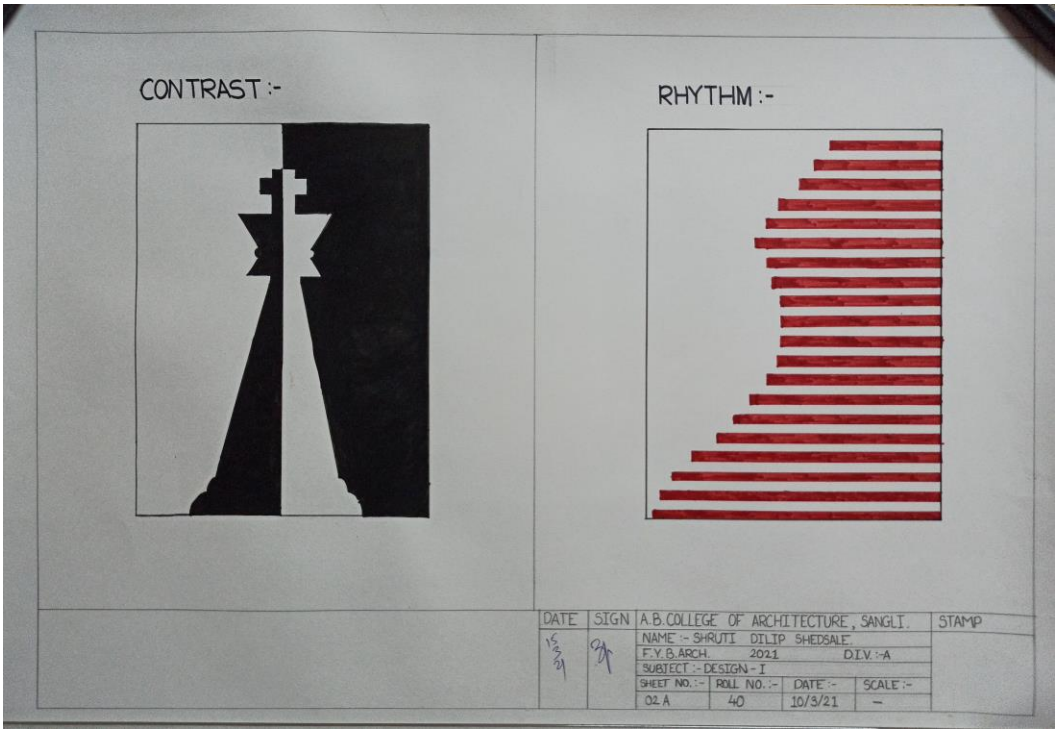
ELEMENTS OF DESIGN

LINE	A LINE IS PATH MADE BY A MOVING POINT THROUGH SPACE. IT CAN ONE DIAMENSIONAL AND CAN CARRY A WIDTH, DIRECTION AND LEGNTH.
SHAPE	SHAPES ARE FLAT, ENCLOSE AREAS THAT ARE TWO DIAMENTIONAL. IT MAY GEOMATRICAL OR ORGANIC SHAPE.
COLOUR	COLOUR IS PERCEIVED BY THE WAY LIGHT REFLECTS. THERE ARE THREE TYPS OF PROPE-RTIES OF COLOUR ⇒ HUE, INTENSITY, VALUE.
VALUE	VALUE DESCRIBS LIGHTNESS OR DARKNESS OF SURFACE.
TEXTURE	TEXTURE DESCRIBS THE QUALITY OF SURFACE OR OBJECT. WE CAN FEEL SMOOTHNESS, ROUGNESS, SILKYNESS BY TEXTURE OF OBJECT.
SPACE	SPACE IS USED TO CREATE ILLUSIONS WITH-IN AN ARTWORK. IT MAY POSITIVE OR NEGATIVE SPACE.
FORM	FORMS ARE 3-DIMENSIONAL AND CAN BE VIEWED FROM MANY ANGLES. FORMS HAVE VOLUME AND TAKE UP SPACES.

PRINCIPLS OF DESIGN

BALANCE	A DISTRIBUTION OF VISUAL WEIGHT ON EITH-ER SIDE OF THE VERTICAL AXIS.
CONTRAST	DIFFERENT ELEMENTS USED TOGHTER TO HIGHLIGHT THEIR DIFFRENCES.
RHYTHM	REGULAR REPETATION OF ALTERNATION IN ELEMENTS TO CREATE COHESIVENESS AND INTEREST.
UNITY	IT FEELS THAT ART WORKS TOGETHER AND LOOKS LIKE IT FITS.
EMPHASIS	USED TO MAKE CERTAIN PART OF ARTWORK STANDOUT. IT CREATS THE CENTER OF INTE-REST OR FOCAL POINT.
PATTERN	AN ELEMENT OF ART IS REPEATED AN ORGANIZED WAY TO CREATE ART. OR PATTERN
MOVEMENT	CREATES A SENCE OF MOVEMENT. CAN CREATE THE ILLUSION OF ACTION

DATE	SIGN	A.B. COLLEGE OF ARCHITECTURE, SANGLI	STAMP
25/03/21		NAME :- SHRUTI DILIP SHEDSALE.	
		F.Y.B.ARCH. 2021 DIV. :-A	
		SUBJECT :- DESIGN-I	
		SHEET NO. :- 01 / ROLL NO. :- 40 / DATE :- 25/03/21 / SCALE :- -	



CONTRAST :-

RHYTHM :-

DATE	SIGN	A.B. COLLEGE OF ARCHITECTURE, SANGLI.	STAMP
10/3/21		NAME :- SHRUTI DILIP SHEDSALE.	
		F.Y.B.ARCH. 2021 DIV. :-A	
		SUBJECT :- DESIGN-I	
		SHEET NO. :- 02 A / ROLL NO. :- 40 / DATE :- 10/3/21 / SCALE :- -	

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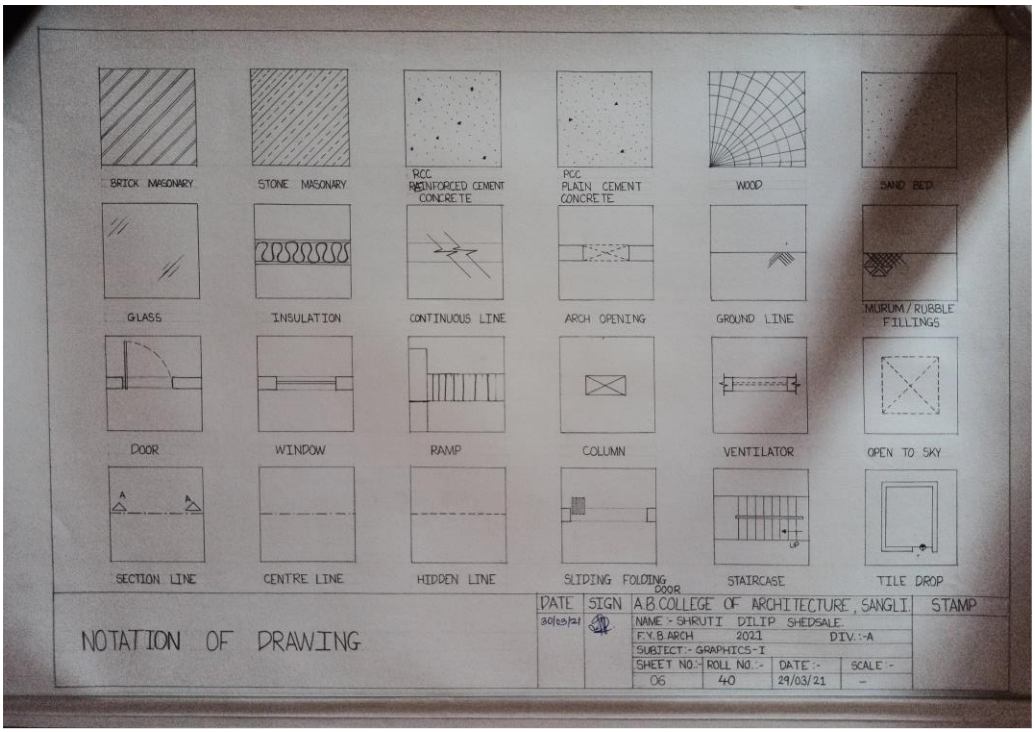

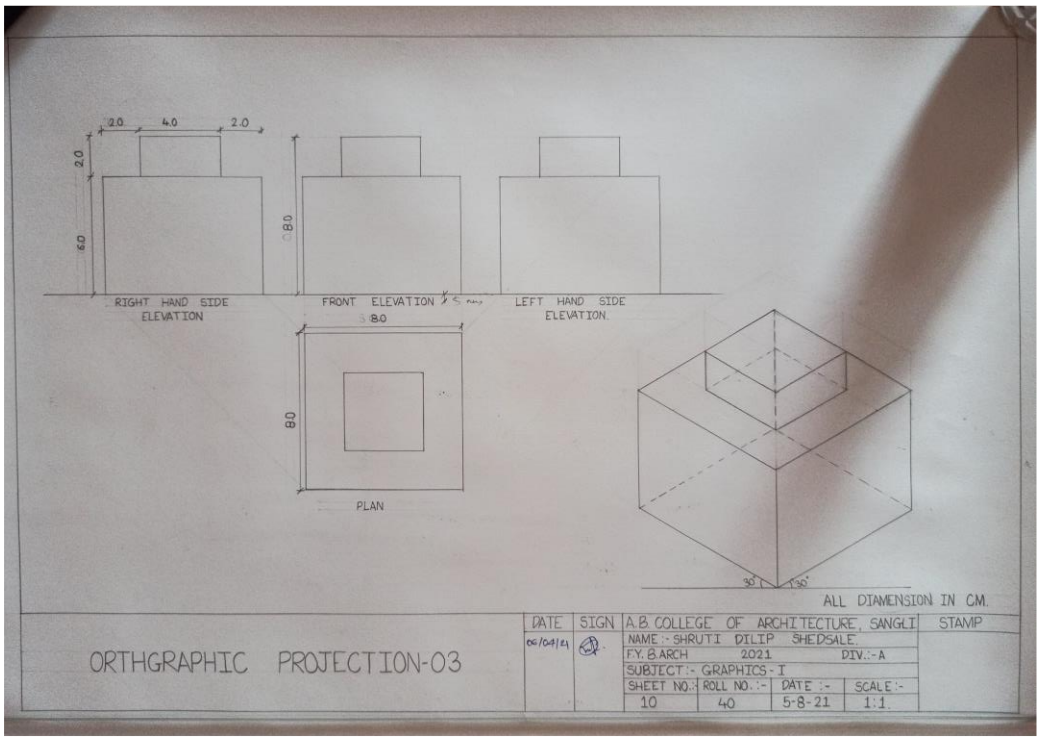

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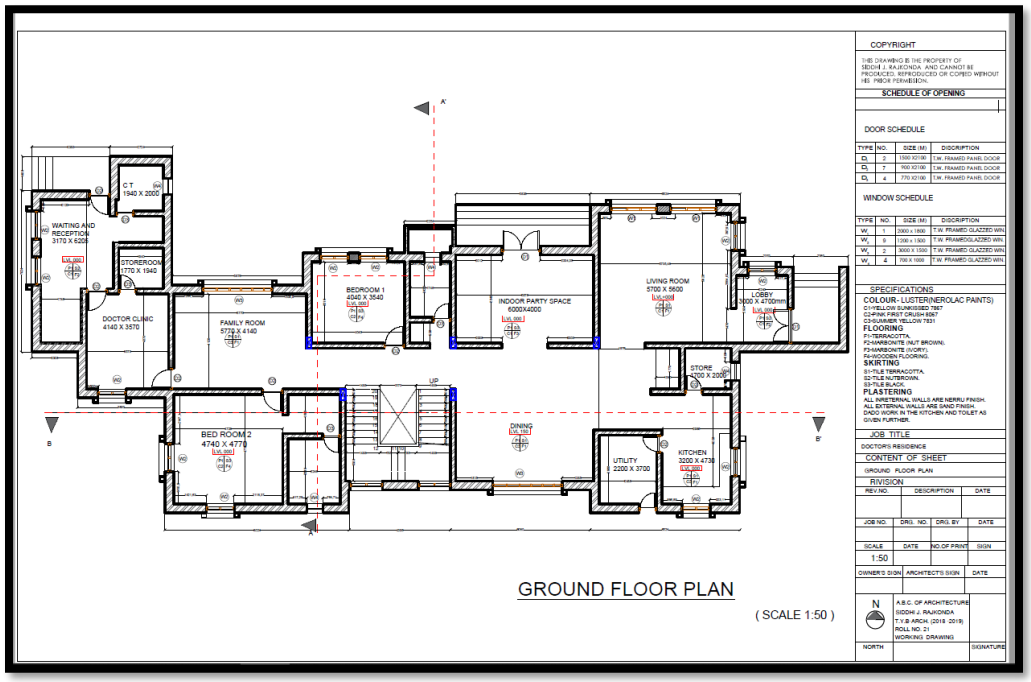
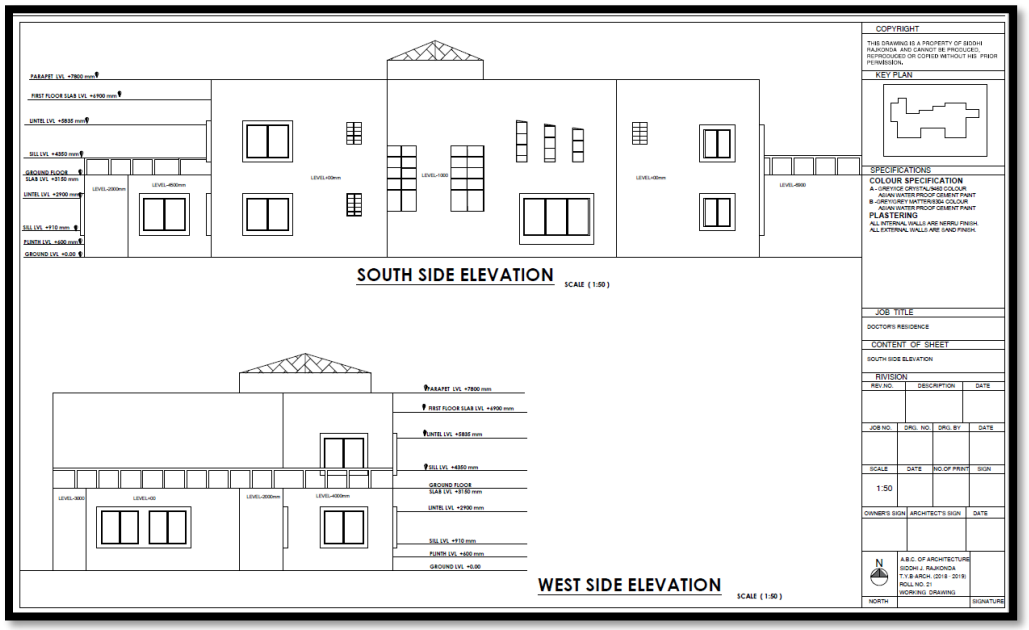
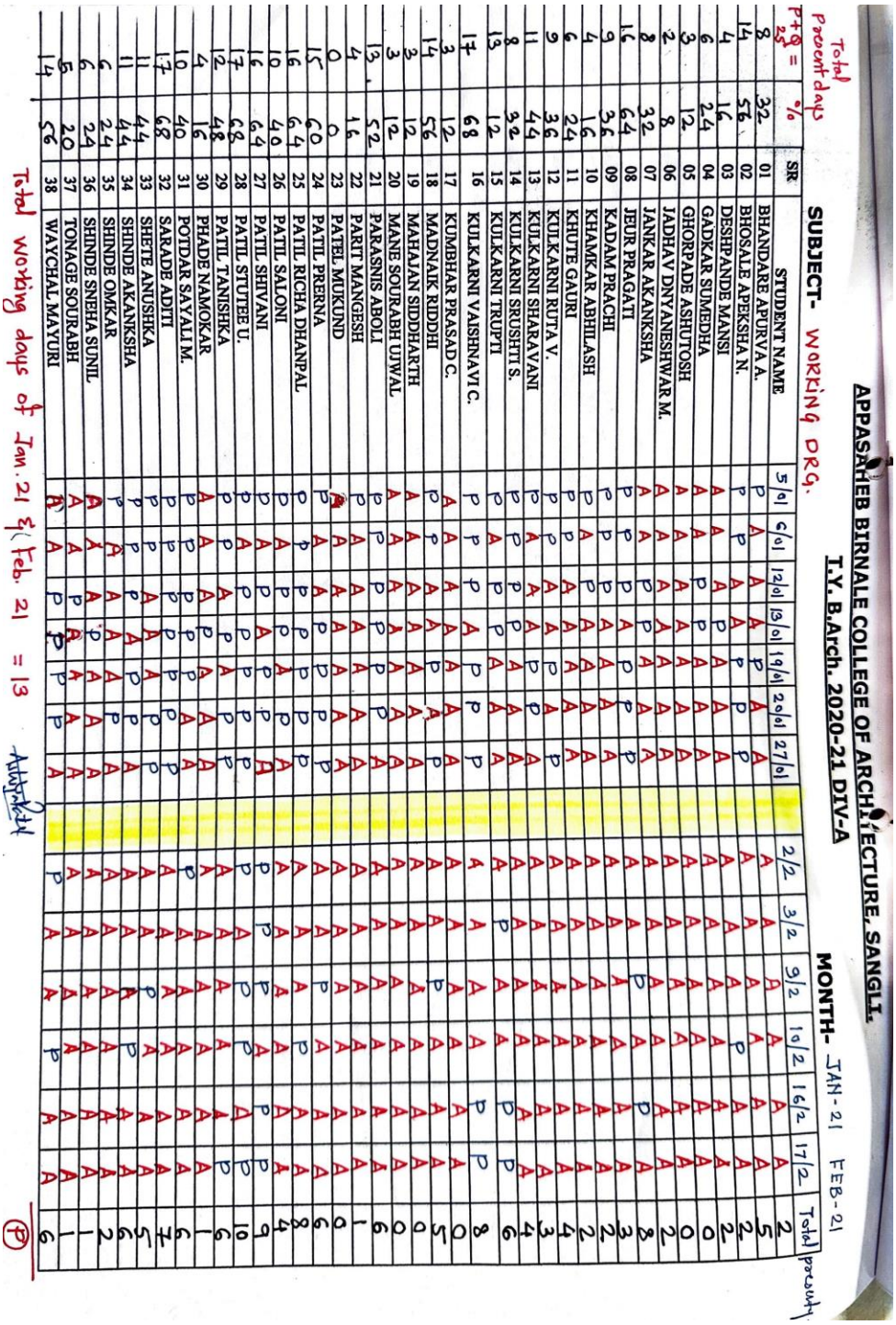




VC. PRINCIPAL,
APPASAHEB BIRNALE COLLEGE
OF ARCHITECTURE, SANGLI

ATTENDANCE AND FRACTION MARKING HEAD:



APPASAHEB BIRNALE COLLEGE OF ARCHITECTURE, SANGLI.

T.Y. B.Arch. 2020-21 DIV-A

SUBJECT- WORKING DRG.

MONTH- JAN-21 FEB-21

Total Present days

P+9 = 25	%	SR	STUDENT NAME	5/01	6/01	12/01	13/01	19/01	20/01	27/01		2/2	3/2	9/2	10/2	16/2	17/2	Total	Present
8	32	01	BHANDARE APURVA A.	P	A	A	A	P	A	A		A	A	A	A	A	A	2	5
14	56	02	BHOSALE APEKSHA N.	P	P	A	A	P	P	A		A	A	A	P	A	A	2	5
4	16	03	DESHPANDE MANSI	A	A	A	P	A	A	A		A	A	A	A	A	A	2	0
6	24	04	GADKAR SUMEDHA	A	A	P	P	A	A	A		A	A	A	A	A	A	0	0
3	12	05	GHORPADE ASHUTOSH	A	A	P	A	A	A	A		A	A	A	A	A	A	0	0
2	8	06	JADHAV DNYANESHWAR M.	A	A	A	A	A	A	A		A	A	A	A	A	A	0	0
8	32	07	JANKAR AKANKSHA	A	A	P	P	A	A	A		A	A	P	A	P	A	2	8
16	64	08	JEUR PRAGATI	P	P	P	P	P	P	P		A	A	A	A	A	A	8	8
9	36	09	KADAM PRACHI	P	P	P	A	P	A	A		A	A	A	A	A	A	3	3
4	16	10	KHAMKAR ABHILASH	P	A	P	A	A	A	A		A	A	A	A	A	A	2	2
6	24	11	KHUTE GAURI	P	P	A	A	A	A	P		A	A	A	A	A	A	4	4
9	36	12	KULKARNI RUTA V.	P	P	A	A	P	A	P		A	A	A	A	A	A	3	3
11	44	13	KULKARNI SHARAVANI	P	A	A	A	P	A	A		A	A	A	A	A	A	4	4
8	32	14	KULKARNI SRUSHTI S.	P	P	P	P	A	A	A		A	A	A	A	P	P	6	6
13	12	15	KULKARNI TRUPTI	P	A	P	P	A	A	A		A	P	A	A	P	P		
17	68	16	KULKARNI VAISHNAVI C.	P	P	P	A	P	P	P		A	A	A	A	P	P	8	8
3	12	17	KUMBHAR PRASAD C.	A	A	A	A	A	A	A		A	A	P	A	A	A	0	0
14	56	18	MADNAIK RIDDHI	P	P	A	A	P	A	P		A	A	A	A	A	A	5	5
3	12	19	MAHAJAN SIDDHARTH	A	A	A	A	A	A	A		A	A	A	A	A	A	0	0
3	12	20	MANE SOURABH UJWAL	A	A	A	A	A	A	A		A	A	A	A	A	A	0	0
13	52	21	PARASNIS ABOLI	P	P	P	P	P	A	A		A	A	A	A	A	A	6	6
4	16	22	PARIT MANGESH	P	A	A	A	A	A	A		A	A	A	A	A	A	1	1
0	0	23	PATEL MUKUND	A	A	A	A	A	A	A		A	A	A	A	A	A	0	0
15	60	24	PATIL PRERNA	P	A	A	P	P	P	P		A	A	A	P	A	A	6	6
16	64	25	PATIL RICHA DHANPAL	P	P	P	P	P	P	P		A	A	A	P	A	A	8	8
10	40	26	PATIL SALONI	P	A	P	P	A	P	A		A	A	A	A	A	A	4	4
16	64	27	PATIL SHIVANI	P	A	P	P	P	P	A		P	A	P	A	P	P	9	9
17	68	28	PATIL STUTEE U.	P	P	P	P	P	P	P		P	A	P	A	P	P	10	10
12	48	29	PATIL TANISHKA	P	P	A	P	A	P	P		A	A	A	A	A	P	6	6
4	16	30	PHADE NAMOKAR	A	A	A	P	A	A	A		A	A	A	A	A	A	1	1
10	40	31	POTDAR SAYALI M.	P	P	P	P	P	P	A		P	A	A	A	A	A	6	7
17	68	32	SARADE ADITI	P	P	P	P	P	P	P		A	A	A	A	A	A	7	7
11	44	33	SHETE ANUSHKA	P	P	A	A	P	P	P		A	A	P	A	A	A	5	5
11	44	34	SHINDE AKANKSHA	P	P	P	A	P	P	A		A	A	P	P	A	A	5	5
6	24	35	SHINDE OMKAR	A	A	A	A	A	A	A		A	A	A	A	A	A	2	2
6	24	36	SHINDE SNEHA SUNIL	A	A	A	A	A	A	A		A	A	A	A	A	A	2	2
5	20	37	TONAGE SOURABH	A	A	P	A	A	A	A		A	A	A	A	A	A	1	1
14	56	38	WAYCHAL MAYURI	A	A	P	P	P	A	A		P	A	A	P	A	A	1	6

Total working days of Jan. 21 & Feb. 21 = 13

Authorised

(P)

V/C. PRINCIPAL,
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APPASAHEB BIRNALE COLLEGE OF ARCHITECTURE, SANGLI.

T.Y. B.Arch. 2020-21 DIV-A

SUBJECT- WORKING DRG. **MONTH-** MARCH, APRIL 21

SR	STUDENT NAME	2/03	3/03	9/03	16/03	[illegible]	23/03	25/03		8/04	15/04	20/04	22/04	27/04	29/04	Total presents
01	BHANDARE APURVA A.	P	A	A	A	X	A	P		A	A	P	P	P	P	6
02	BHOSALE APEKSHA N.	P	P	A	P		A	P		P	A	P	P	P	P	9
03	DESHPANDE MANSI	A	A	A	A		A	A		A	A	P	P	A	A	2
04	GADKAR SUMEDHA	A	A	A	P		P	A		A	A	P	P	A	A	4
05	GHORPADE ASHUTOSH	A	A	A	A		A	A		A	A	P	P	A	P	3
06	JADHAV DNYANESHWAR M.	A	A	A	A		A	A		A	A	P	P	A	A	2
07	JANKAR AKANKSHA	P	A	A	P		P	A		A	A	P	P	A	P	6
08	JEUR PRAGATI	P	A	P	P		A	P		A	A	P	P	P	P	8
09	KADAM PRACHI	P	A	A	P		P	A		A	A	P	P	A	P	6
10	KHAMKAR ABHILASH	A	A	A	A		A	A		A	A	P	P	A	A	2
11	KHUTE GAURI	A	A	A	P		P	A		A	A	P	P	A	A	4
12	KULKARNI RUTA V.	P	A	A	A		A	P		A	A	P	P	A	P	5
13	KULKARNI SHARAVANI	P	A	A	P		P	P		P	A	P	P	P	A	8
14	KULKARNI SRUSHTI S.	A	A	A	P		A	A		A	A	P	P	P	A	4
15	KULKARNI TRUPTI	P	A	P	P		P	A		A	A	P	P	P	A	7
16	KULKARNI VAISHNAVI C.	P	P	A	P		A	P		P	A	P	P	P	P	9
17	KUMBHAR PRASAD C.	P	A	A	A		A	A		A	A	P	P	A	A	3
18	MADNAIK RIDDHI	P	A	A	P		P	P		P	A	P	P	P	P	9
19	MAHAJAN SIDDHARTH	P	A	A	A		A	A		A	A	P	P	A	A	3
20	MANE SOURABH UJWAL	P	A	A	A		A	A		A	A	P	P	A	A	3
21	PARASNIS ABOLI	P	P	P	P		A	A		A	A	P	P	A	P	7
22	PARIT MANGESH	P	A	A	A		A	A		A	A	P	P	A	A	3
23	PATEL MUKUND	A	A	A	A		A	A		A	A	A	A	A	A	0
24	PATIL PRERNA	P	P	P	P		P	A		P	A	P	P	A	P	9
25	PATIL RICHA DHANPAL	P	A	A	P		A	P		P	P	P	P	P	A	8
26	PATIL SALONI	P	A	A	P		P	A		A	A	P	P	P	A	6
27	PATIL SHIVANI	P	A	P	P		P	A		A	A	P		P	P	7
28	PATIL STUTEE U.	P	A	A	P		P	P		A	A	P		P	P	7
29	PATIL TANISHKA	A	A	P	P		A	A		P	A	P	P	A	P	6
30	PHADE NAMOKAR	P	A	A	P		A	A		A	A	P		A	A	3
31	POTDAR SAYALI M.	P	A	A	P		P	P		A	A			A	A	4
32	SARADE ADITI	P	A	A	P		P	P		P	P	P	P	P	P	10
33	SHETE ANUSHKA	P	P	P	P		P	A		P	A			A	A	6
34	SHINDE AKANKSHA	P	A	A	P		A	P		A	A	P	P	A	A	5
35	SHINDE OMKAR	P	A	A	A		A	A		A	A	P	P	P	A	4
36	SHINDE SNEHA SUNIL	A	A	A	P		A	P		A	A	P	P	A	P	5
37	TONAGE SOURABH	P	A	A	A		A	A		A	A	P	P	A	P	4
38	WAYCHAL MAYURI	P	A	A	P		P	A		P	P	P	P	P	A	8

Total Working days of March 21 & April 21 = 12

9

APPASAHEB BIRNALE COLLEGE OF ARCHITECTURE

WORKING DRAWING THIRD YEAR 2020-2021

SR.NO.	NAME OF STUDENTS	ATTENDANCE	DRAWING ASSIGNMENTS						
		%	Door and Windows	Kitchen details	Toilet details	Compound wall and gate	Drainage layout	St. case details	Electric layout
1	Bhandare Apurva	32	DONE	DONE	DONE	DONE	DONE	DONE	DONE
2	Bhosale Apeksha	56	DONE	DONE	DONE	DONE	DONE	DONE	DONE
3	Deshpande Mansi	16	DONE	DONE	DONE	DONE	DONE	DONE	DONE
4	Gadkar Sumedha	24	DONE	DONE	DONE	DONE	DONE	DONE	DONE
5	Ghorpade Ashutosh	12	DONE	DONE	DONE	DONE	DONE	DONE	DONE
6	Jadhav Dnyaneshwar	8	DONE	DONE	DONE	DONE	DONE	DONE	DONE
7	Jankar Akansha	32	DONE	DONE	DONE	DONE	DONE	DONE	DONE
8	Jeur Pragati	64	DONE	DONE	DONE	DONE	DONE	DONE	DONE
9	Kadam Prachi	36	DONE	DONE	DONE	DONE	DONE	DONE	DONE
10	Khamkar Abhilash	16	DONE	DONE	DONE	DONE	DONE	DONE	DONE
11	Khute Gouri	24	DONE	DONE	DONE	DONE	DONE	DONE	DONE
12	Kulkarni Ruta	36	DONE	DONE	DONE	DONE	DONE	DONE	DONE
13	Kulkarni Shravani	44	DONE	DONE	DONE	DONE	DONE	DONE	DONE
14	Kulkarni Srushti	32	DONE	DONE	DONE	DONE	DONE	DONE	DONE
15	Kulkarni Trupti	12	DONE	DONE	DONE	DONE	DONE	DONE	DONE
16	Kulkarni Vaishnavi	68	DONE	DONE	DONE	DONE	DONE	DONE	DONE
17	Kumbhar Prasad	12	DONE	DONE	DONE	DONE	DONE	DONE	DONE
18	Madnaik Riddhi	56	DONE	DONE	DONE	DONE	DONE	DONE	DONE
19	Mahajan Siddharth	12	DONE	DONE	DONE	DONE	DONE	DONE	DONE
20	Mane Saurabh	12	DONE	DONE	DONE	DONE	DONE	DONE	DONE
21	Parasnis Aboli	52	DONE	DONE	DONE	DONE	DONE	DONE	DONE
22	Parit Mangesh	16	DONE	DONE	DONE	DONE	DONE	DONE	DONE
23	Patel Mukund	0	DONE	DONE	DONE	DONE	DONE	DONE	DONE
24	Patil Prerna	60	DONE	DONE	DONE	DONE	DONE	DONE	DONE
25	Patil Richa	64	DONE	DONE	DONE	DONE	DONE	DONE	DONE
26	Patil Saloni	40	DONE	DONE	DONE	DONE	DONE	DONE	DONE
27	Patil Shivani	64	DONE	DONE	DONE	DONE	DONE	DONE	DONE
28	Patil Stuti	68	DONE	DONE	DONE	DONE	DONE	DONE	DONE
29	Patil Tanishka	48	DONE	DONE	DONE	DONE	DONE	DONE	DONE
30	Phade Namokar	16	DONE	DONE	DONE	DONE	DONE	DONE	DONE
31	Potdar Sayali	40	DONE	DONE	DONE	DONE	DONE	DONE	DONE
32	Sarade Aditi	68	DONE	DONE	DONE	DONE	DONE	DONE	DONE
33	Shete Anushka	44	DONE	DONE	DONE	DONE	DONE	DONE	DONE
34	Shinde Akansha	44	DONE	DONE	DONE	DONE	DONE	DONE	DONE
35	Shinde Omkar	24	DONE	DONE	DONE	DONE	DONE	DONE	DONE
36	Shinde Sneha	24	DONE	DONE	DONE	DONE	DONE	DONE	DONE
37	Tonage Saurabh	20	DONE	DONE	DONE	DONE	DONE	DONE	DONE
38	Waychal Mayuri	56	DONE	DONE	DONE	DONE	DONE	DONE	DONE

AR. A.P. PATEL

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T.Y. B.Arch. 2021-22 DIV-A

SUBJECT- WORKING DRAWING.

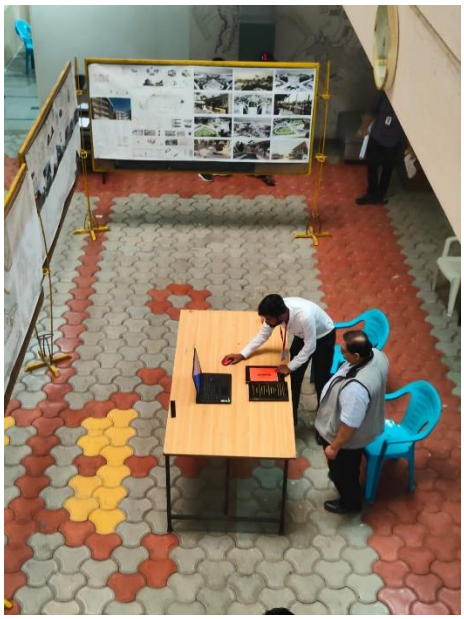
MONTH-

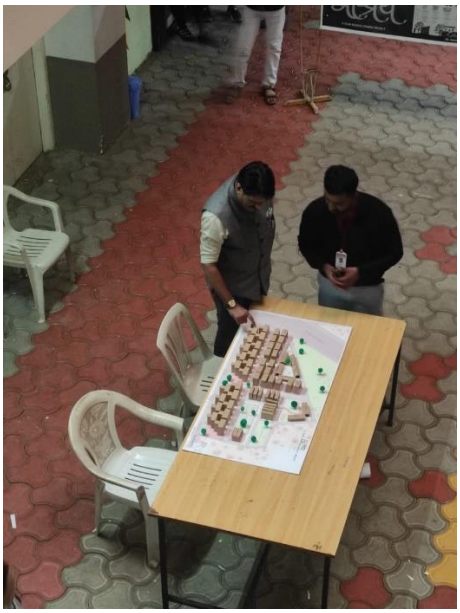
SR	STUDENT NAME OUT OF.	50
01	ADATE ANJALI NITIN	35
02	ATTAR ARSHADULLAH A.	31
03	BHADRE PRASAD SUNIL	32
04	CHAVAN SHIVANI D.	32
05	GAIKWAD DHANANJAY AVINASH	42
06	INAMDAR KAHAKASHA	34
07	JADHAV KEDAR	40
08	JOSHI GAYATRI SACCHIDANAND	36
09	KOPARDE OMKAR ARVIND	–
10	MAHADIK MAYUR	30
11	MALI SHIVAM	31
12	NADAF SAAD CHAND	30
13	NAIKWADI MEHVIASH	30
14	NIKAM SNEHA	35
15	PATIL ARYA SATISH	36
16	PATIL SAKSHI SACHIN	40
17	SALUNKHE URMILA SHANKAR	38
18	SAVALE SRUSHTI A.	38
19	SAVALWADE MANSI SUNIL	40
20	SHAH SARTHVI SWAPNIL	40
21	SHINDE KALYANI	40
22	SUTAR SHRENIK DNYANDEV	40
23	VANJARE ANUJA K.	38
24	YADHAV HARSHAD RAMRAO	40

Ar. A.B. Jare

POWER POINT PRESENTATIONS:

EXTERNAL EXAMINERS FEEDBACK:





APPASAHEB BIRNALE COLLEGE OFARCHITECTURE, SANGLI.

Academic Year: 2017-18

RESULT ANALYSIS FOR THE YEAR 2017-2018

Year	No. of students appeared for exam	Students passed in first class with distinction	First class	Second class	ATKT	Fail	Percentage of passing %
First Year B.Arch.	88	1	30	38	36	19	78.40
Second Year B.Arch	69	1	34	25	8	8	88.40
Third Year B.Arch	68	NIL	31	36	10	3	95.58
Fourth Year B.Arch	22	2	10	10	5	NIL	100

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APPASAHEB BIRNALE COLLEGE OFARCHITECTURE, SANGLI.

Academic Year: 2019-2020

RESULT ANALYSIS FOR THE YEAR 2019-20

Year	No. of students appeared for exam	Students passed in first class with distinction	First class	Second class	ATKT	Fail	Percentage of passing
First Year B.Arch.	38	1	34	3	1	NIL	100%

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Academic Year: 2020-21

RESULT ANALYSIS FOR THE YEAR 2020-21

Year	No. of students appeared for exam	Students passed in first class with distinction	First class	Second class	ATKT	Fail	Percentage of passing %
First Year B.Arch.	87	24	59	4	1	NIL	100
Second Year B.Arch	53	41	9	2	2	1	98.11
Third Year B.Arch	74	41	32	NIL	7	NIL	100
Fourth Year B.Arch	78	71	7	NIL	NIL	NIL	100

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Academic Year: 2021-22

RESULT ANALYSIS FOR THE YEAR 2021-22

Year	No. of students appeared for exam	Students passed in first class with distinction	First class	Second class	ATKT	Fail	Percentage of passing %
First Year B. Arch.	26	7	11	8	9	NIL	100
Second Year B. Arch	82	8	57	13	19	3	96.34
Third Year B. Arch	38	5	30	2	3	2	94.73

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