

IG Valley, Madurai Main Road, Manikandam, Tiruchirappalli - 620012

NAAC DOCUMENTS

QUALITY INDICATOR FRAME WORK

CRITERION – 1

CURRICULAR ASPECTS

SUBMITTED BY

IQAC INTERNAL QUALITY ASSURANCE CELL INDRA GANESAN COLLEGE OF ENGINEERING







Criteria 1

Curricular Aspects

100

- **1.1 Curricular Planning and Implementation (20)**
- 1.1.1 The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

Table of Content

S. No	Description
1.	Preface of the Course File
2.	Review of Course File
3.	Faculty work load
4.	Course Plan
5.	Lecture Schedule
6.	Content Beyond Syllabus
7.	Assignment Question Paper
8.	Assignment Answer Sheet
9.	Internal Assessment Question Paper
10.	Internal Assessment Answer Key
11	Internal Assessment Answer Book
12.	Co Based Mark Entry
13.	Root Cause Analysis
14.	Audit Form

INDRA GANESAN COLLEGE OF ENGINEERING IG Valley, Manikandam, Tiruchirappalli, Tamil Nadu – 620 012, India (Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

DEPARTMENT OF AGRICULTURAL ENGINEERING

PREFACE OF THE COURSE FILE

Batch

: 2017-2021

Academic Year

: 2018-2019 /ODD

Dr. G. Balakrishnan, M.E., Ph.D., Principat Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

Program

: CIVIL ENGINEERING

Year & Semester

: 2nd Year / 3th Semester / 'A' Section

Course Code

: CE8391

NBA Course Code:C205

Name of the Course

: CONSTRUCTION MATERIALS

Faculty in-charge

: M.KALIRAJ (AP)

alizasm Signature of the Facult in-charge

INDRA GANESAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and affiliated to Anna University, Chennal)

DEPARTMENT OF CIVIL ENGINEERING

REVIEW OF COURSE FILE

(to be pasted on the inner side of the file-backside).(#-State Yes/No.)

S.N	Details Date:	R-I-*	R-II-*&	R-III- *&	R-IV- *&\$	R-V- *&\$@
1.	Preface of the course file	¥				
2.	Vision, Mission, PEOs, POs, PSOs, Blooms taxonomy	Y				
3.	Subject handlers of yesteryears	X				
4.	Timetable/Workload of the staff – Distribution of teaching load – Roles and Responsibilities	Y				
5.	Syllabus signed by staff & HoD	X				1.12 1.14
6.	Lecture Schedule signed by staff & HoD	¥				
7.	Course Committee meeting circular and minutes	Y				
8.	Identification of Curricular gap and Content Beyond the syllabus	¥				
9.	Self-study topics	V				
10.	Previous AU Question papers					1.10
11.	Unit wise Q&A and Objective type questions	1.				
12.	Unit wise course material	Y	N	11	V	-
	Assignment question paper with sample answer		1	Y	Y	-
13.	sheets and mark entry		Y	Y	У	
14.	Tutorial question paper with key and mark entry	The state of the	Y	X	X	1 Staller
15.	Class test/IA test Q Paper with Key, sample		V	V	1	
	answer papers and mark entry IA Test- result analysis-CAP-evidence-root cause		/	1	1	-
16.	analysis.		Y	X	Y	
17.	Retest –Q paper-Attendance-marks		1×	V	1	-
18.	AU Web portal entry sheet		Y	V	1	
9.	Very poor performance in first two tests-action takencommunication to parents-evidence			Y	Y	
20.	Absence for two tests-action taken-communication			Y	-/	
	to parents-evidence. Indiscipline of student reported, if any			/	/	
2	Special class/coaching class/remedial class/attendance-CAP		У	Y	Y	
	Conduct of Seminar, Quizzes - proof				/	
	Content beyond the syllabus - proof					1
	Student feedback on faculty		State of the second		and the factor	X
	Course end survey			1		Y
-	Internal Assessment sheet					Y
	AU question paper with students feedback			A A CALL		X
	Discrepancy of the question paper and correspondence, if any					Y
). I	AU result analysis-Details of arrear students.					Y
. A	AU grade sheet					Y
2. 0	CO – PO & PSO attainment sheet	A State of the second			and the part	Y
	Signature of Course handling faculty	Brild	Laling.	Jug.	Horak	tar
	Signature of HoD	Simont	Browth	Simpley	BAUNT	Barnt

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam Trichy 620



		De	partment of Civil Engineering			
			Load - Odd Semester 2018-19			
S.NO.	Teacher's Name	Course Code	Course Name	Semester	Lecture / week	Total
1	Mr.S.Ramalingam (1+0)	CE 8703	Structural Design and Drawing	VII	4	4
2	Mr.R.Sivasankar (2+0)	CE8701	Estimation, costing,& Valuation Engineering	VII	4	8
	(210)	CE8302	Fluid Mechanics	111	4	
		CE8301	Strength of Materials-I	111	4	
3	Mr.K.Sengottian	CE8502	Structural Analysis I	V	4	40
Ū	(2+1)	CE8712	Design Project	VII	4	12
		EN 8491	Water Supply Engineering	V	4	12+1
4	Ms Geena	EN8591	Municipal Solid Waste Management	VII	4	
	Ms.G.Bharani (2+1)	CE8501	Design of Reinforced Cement Concrete Elements	v	5	
5		CE6704	Estimation and Quantity Surveying	VII	4	13+2
		CE8511	Soil Mechanics Laboratory	V	4	
6	Mr.K.Saravanan	CE6701	Railway,Airport,Harbour Engineering	VII	4	
	(2+1)	CE8591	Foundation Engineering	V	4	12+1
		CE8361	Surveying lab	111	4	
	Mr.M.Kaliraj	CE8391	Construction Materials	111	4	
7	(2+1)	OR0551	Renewable Energy Sources	V	4	12
	·- ·/	CE8311	Construction Materials Lab	III	4	
	Mrs.K.Gaythri	CE8351	Surveying	111	4	
8	(2+1)	CE8512	Water and Waste Water Analysis Laboratory	v	4	12+1
9		CE8392	Engineering Geology	ш	4	
	9	Ms.E.Vinodha (2+1)	GE8071	Disaster Management	V	4
		CE8513	Survey Camp	v	0	

Time Table Co-ordinator

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CE8391

CONSTRUCTION MATERIALS

LTPC 3 0 0 3

OBJECTIVE:

To introduce students to various materials commonly used in civil engineering construction and their properties.

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Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering www.rejinpaul.com IG Valley, Madurai Main Read Manikandam, Trichy-520 912.

UMIT I **STONES - BRICKS - CONCRETE BLOCKS**

Stone as building material - Criteria for selection - Tests on stones - Deterioration and Preservation of stone work - Bricks - Classification - Manufacturing of clay bricks - Tests on bricks - Compressive Strength - Water Absorption - Efforescence - Bricks for special use -Refractory bricks - Concrete blocks - Lightweight concrete blocks.

UNIT II LIME - CEMENT - AGGREGATES - MORTAR

Lime - Preparation of lime mortar - Cement - Ingredients - Manufacturing process - Types and Grades - Properties of cement and Cement mortar - Hydration - Compressive strength - Tensile strength - Fineness- Soundness and consistency - Setting time - fine aggregates - river sand crushed stone sand - properties - coarse Aggregates - Crushing strength - Impact strength -Flakiness Index - Elongation Index - Abrasion Resistance - Grading

UNIT III CONCRETE

Concrete - Ingredients - Manufacturing Process - Batching plants -mixing - transporting placing - compaction of concrete -curing and finishing - Ready mix Concrete - Mix specification.

UNIT IV TIMBER AND OTHER MATERIALS

Timber - Market forms - Industrial timber- Plywood - Veneer - Thermocol - Panels of laminates - Steel - Aluminum and Other Metallic Materials - Composition - Aluminium composite panel -Market forms - Mechanical treatment - Paints - Varnishes - Distempers - Bitumens.

HMIT V **MODERN MATERIALS**

Glass - Ceramics - Sealants for joints - Fibre glass reinforced plastic - Clay products -Refractories - Composite materials - Types - Applications of laminar composites - Fibre textiles-Geomembranes and Geotextiles for earth reinforcement,

OUTCOMES:

On completion of this course the students will be able to

- Compare the properties of most common and advanced building materials.
- understand the typical and potential applications of lime, cement and aggregates
- · know the production of concrete and also the method of placing and making of concrete elements.
- understand the applications of timbers and other materials
- Understand the importance of modern material for construction.

TEXT BOOKS:

- 1. Varghese.P.C, "Building Materials", PHI Learning Pvt. Ltd, New Delhi, 2015.
- 2. Rajput. R.K., "Engineering Materials", S. Chand and Company Ltd., 2008.
- 3. Gambhir.M.L., "Concrete Technology", 3rd Edition, Tata McGraw Hill Education, 2004
- 4. Duggal.S.K., "Building Materials", 4th Edition, New Age International, 2008.

REFERENCES:

- 1. Jagadish.K.S, *Alternative Building Materials Technology*, New Age International, 2007.
- 2. Gambhir. M.L., & Neha Jamwal., "Building Materials, products, properties and systems", Tata McGraw Hill Educations PvL Ltd, New Delhi, 2012.
- 3. IS456 2000: Indian Standard specification for plain and reinforced concrete, 201 f
- 4. IS4926 2003: Indian Standard specification for ready-mixed concrete, 2012
- 5. IS383 1970: Indian Standard specification for coarse and fine aggregate from natural Sources for concrete, 2011
- 6. IS1542-1992: Indian standard specification for sand for plaster, 2009
- 7. IS 10262-2009: Indian Standard Concrete Mix Proportioning -Guidelines, 2009

TOTAL: 45 PERIODS

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DEPARTMENT OF CIVIL ENGINEERING

Lecture Schedule

Degree/Program: B. E.CIVIL ENG

Course code &Name: CE8391- CONSTRUCTION MATERIALS

Duration: 2018-2019(ODD)

Semester: III

Section : A Faculty: M.KALIRAJ (AP)

OBJECTIVES:

To introduce students to various materials commonly used in civil engineering construction and their properties.

PREREOUISITES: Manufacturing process, building materials

COURSE OUTCOMES:

After the course, the student should be able to:

CO	Course Outcomes	POs	PSOs
C205.1	Compare the properties of most common and advanced building materials	1,2,3,4,6,7,9,10,11,12	1,2,3
	Analyzing the typical and potential applications of lime, cement and aggregates	1,2,3,4,6,7,9,10,11,12	1,2,3
C205.3	Know the production of concrete and also the method of placing and making of concrete elements.	1,2,3,4,6,7,9,10,11,12	1,2,3
C205.4	Applying the applications of timbers and other materials	1,2,3,4,6,7,9,10,11,12	1,2,3
C205.5	Illustrate the importance of modern material for construction	1,2,3,4,6,7,9,10,11,12	1,2,3
	1	1	

S. N O	Planned date	Topics to be covered	Reference/ Teaching aidsand methods	Period
		UNIT I- STONES, BRICKS, CONCRETE BLOCKS		
1	03 07 18	Introduction bricks, concrete blocks		

1	03.07.18	Introduction bricks, concrete blocks	T1, R2/BB	1
2	04/07/18	Stone as building material		3
-			T1, R2/BB	
3	05/07/18	Criteria for selection	T1, R2/BB	2,3
4	06/07/18	Deterioration and Preservation of stone work	T1, R2/BB	3

5	07/07/18	Classification of bricks	T1, R2/BB	1
6	09/07/18	Manufacturing of clay bricks	T1, R2/BB	3,6
7	10/07/18	Compressive Strength	T1, R2/BB	1
8	11/07018	Water Absorption		3
	-		T1, R2/BB	_
9	11/07/18	Efflorescence, test on bricks	T1, R2/BB	
10	12/07/18	Bricks for special use -Refractory bricks, Concrete blocks, Lightweight concrete blocks	T1, R2/BB	2,3
		UNIT-2 LIME, CEMENT, AGGREGATES, MORTOR	L	
11	19/07/18	Lime – Preparation of lime mortar	T2, R4/BB	2,3
12	20/07/18	Cement, Ingredients, Manufacturing process, types and Grades	T2, R4/BB	3
13	21/07/18	Properties of cement and Cement mortar	T2, R4/BB	6
14	23/07/18	Compressive strength ,Tensile strength	T2, R4/BB	1
15	24/07/18	Fineness, hydration	T2, R4/BB	1
16	25/07/18 26/07/18	Soundness and consistency, Setting time ,fine aggregates, river sand , crushed stone sand	T2, R4/BB	3
17	27/07/18	Crushing strength, Impact strength	T2, R4/BB	3
18	28/07/18	Flakiness Index, Elongation Index	T2, R4/BB	3
19	30/07/18	Abrasion Resistance	T2, R4/BB	1
20	31/07/18	Grading	T2, R4/BB	1
	7			
		UNIT-3 CONCRETE		
21	07/08/18	Introduction on concrete	T3, R4/BB	1
.2	08/08/18	Ingredients	T3, R4/BB	3
3	09/08/18	Manufacture Process	TO DATE	0

23	09/08/18	Manufacture Process	T3, R4/BB	2,6
24	10/08/18	Batching plants	T3, R4/BB	3
25	11/08/18	transporting	T3, R4/BB	6
26	13/07/18	compaction of concrete	T3, R4/BB	1
27	14/08/18	curing and finishing	T3, R4/BB	1
28	16/08/18	Ready mix Concrete	T3, R4/BB	2,6

T3 Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

.29	17/08/18	Mix specification	T3, R4/BB	3
30	18/08/18	QUIZ AND ANALYSIS	T3, R4/BB	2

-		UNIT IV- TIMBER AND OTHER MATERIALS		
31	31/08/18	Timber -Market forms	T2, R1/BB	3
.32	01/09/18	Industrial timber	T2, R1/BB	3
33	03/09/18	Plywood, Veneer, Thermocol	T2, R1/BB	1
34	04/09/18	Panels of laminates	T2, R1/BB	1

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54	04/03/10	r anois of familiates	12, 11/00	
35	05/09/18	Steel	T2, R1/BB	3
36	06/09/18	Aluminum and Other Metallic Materials	T2, R1/BB	2,6
37	07/09/18	Aluminium composite panel	T2, R1/BB	3
38	08/09/18	Mechanical treatment	T2, R1/BB	1
39	08/09/18	Paints, Varnishes	T2, R1/BB	5
40	10/09/18	Distempers, Bitumens.	T2, R1/BB	1

		UNIT V- MORDERN MATERIALS		
41	19/09/18	Glass	T4, R1/BB	3
42	20/09/18	Ceramics	T4, R1/BB	2,6
43	22/09/18	Sealants for joints	T4, R1/BB	5
4 4	24/09/18	Fibre glass reinforced plastic	T4, R1/BB	1
45	25/09/18	Clay products	T4, R1/BB	1
46	26/09/18	Refractories	T4, R1/BB	3
47	27/09/18	Composite materials	T4, R1/BB	2,6
48	28/09/18	Applications of laminar composites	T4, R1/BB	3
49	29/09/18	Fibre textiles	T4, R1/BB	5
50	01/10/18	Geomembranes&Geotextiles for earth reinforcement	3	1

SI.	Title of the Book	Author	Year
1.	Building Materials	Varghese.P.C, Duggal.S.K	2015, 2008
2.	Engineering Materials	Rajput. R.K	2008
3.	Concrete Technology	Gambhir.M.L.	2004

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BookReference – References

S1	Title of the Book	Author	Publisher	Year
1	Alternative Building Materials Technology	Jagadish.K.S,	New Age International	2007
2	Building Materials, products, properties and systems	Gambhir. M.L., & Neha Jamwal	Tata McGraw Hill Educations Pvt. Ltd, New Delhi	2012
3	Indian Standard specification for plain and reinforced concrete	IS456 - 2000	-	2011
4	Indian Standard specification for ready-mixed concrete	IS4926 - 2003	-	2012
5	Indian Standard specification for coarse and fine aggregate from natural Sources for concrete	IS383 - 1970	-	2011
6	Indian standard specification for sand for plaster	IS1542-1992	-	2009
7	Indian Standard Concrete Mix Proportioning	IS 10262-2009	-	2009

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Signature of the Faculty in-charge

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DEPARTMENT OF CIVIL ENGINEERING

Identification of Curricular Gap & Content Beyond Syllabus(CBS)

Name of the Faculty :

Course Code & Name: CE8404/ CONCRETE TECHNOLOGY

Degree & Program: B.E. /CIVIL

Semester : V

Academic Year: 2018-2019(ODD)

LMapping of Course Outcomes with POs & PSOs.(before CBS)

Course PO1	C205.1	C205.1	C205.1	C205.1	C205.1	C205.1	C205
	1		т				
P02	3	3	e	3	3	3	c
P03	2	2	2	2	2	2	c
P04	2	2	2	2	2	2	
PO5	3	3	3	3	3	3	,
P06	1	1		×		•	
P07	3	3	e	3	3	3	~
P08	T	- 1	•	•		3	
P09	5	2	2	2	2	2	
P010	ю	ę	3	3	6	3	
PO4 PO5 PO6 PO7 PO8 PO9 PO10 P011		1	1	1	-	-	
P012	2	5	7	5	7	10	
PSO1 PSO2		ŝ	3	ŝ	e	3	
PSO	2	2	2	5	7	5	

II. Identification of content beyond syllabus.

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C304.3& C304.4 CO/Unit III&IV Table.2 Identification of content beyond syllabus POs strengthened/ PO7, PO10 Vacant filled vacant filled Details of Content Beyond Syllabus(CBS) added CONCRETE TECHNOLOGY

III. Mapping of Course Outcomes with POs & PSOs. (After CBS)

CBS.
- after
POs-
with
PSOs
Ú
of COs,
Mapping
Table.3

Course PO1	PO1	P02	P03	P04 P05	P05	P06	P07	P08	909					9 PO10 PO11 PO12 PS01
C205.1	ı	ю	2	2	3	•	3			2	2 3			3 1
C205.1	1	e	2	2	3	ı	3	a.		2	2 3			3 1
C205.1	1	e	2	5	3	ı	3			2	2 3			3 1
C205.1	1	ю	2	5	3	L	3		2		3	-	-	3 1
C205.1	•	æ	2	5	e		e	r	5		3			3 1
C205.1	i.	m	2	2	3	а	3	T	5		3		3 1	3 1
C205	•	3	2	2	3		3		2		3	3 1	3 1 2	-

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan Cellege of Engineering IG Valley, Madurai Main Road IG Valley, Madurai Main Road PHOTO CLICK FROM CENTENT BEYOND THE SYLLABUS:

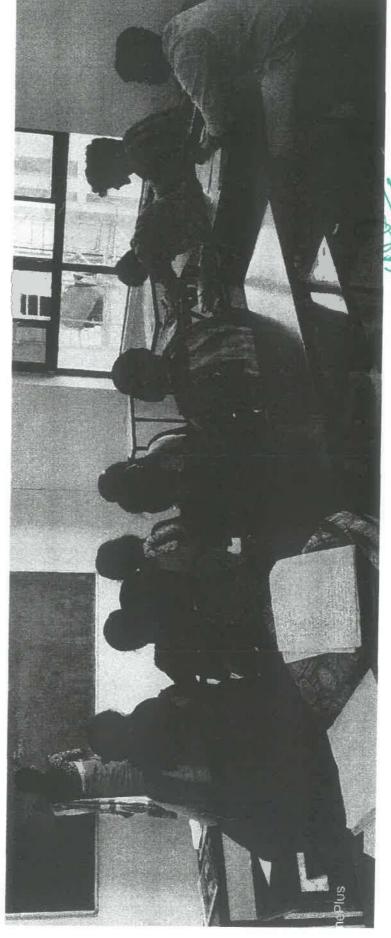
TOPIC: CE8404/ CONCRETE TECHNOLOGY.

NAME OF THE FACULTY: M. KOLIROJ

VENUE: II CIVIL CLASS ROOM.

REG: 2017

YEAR:II YEAR



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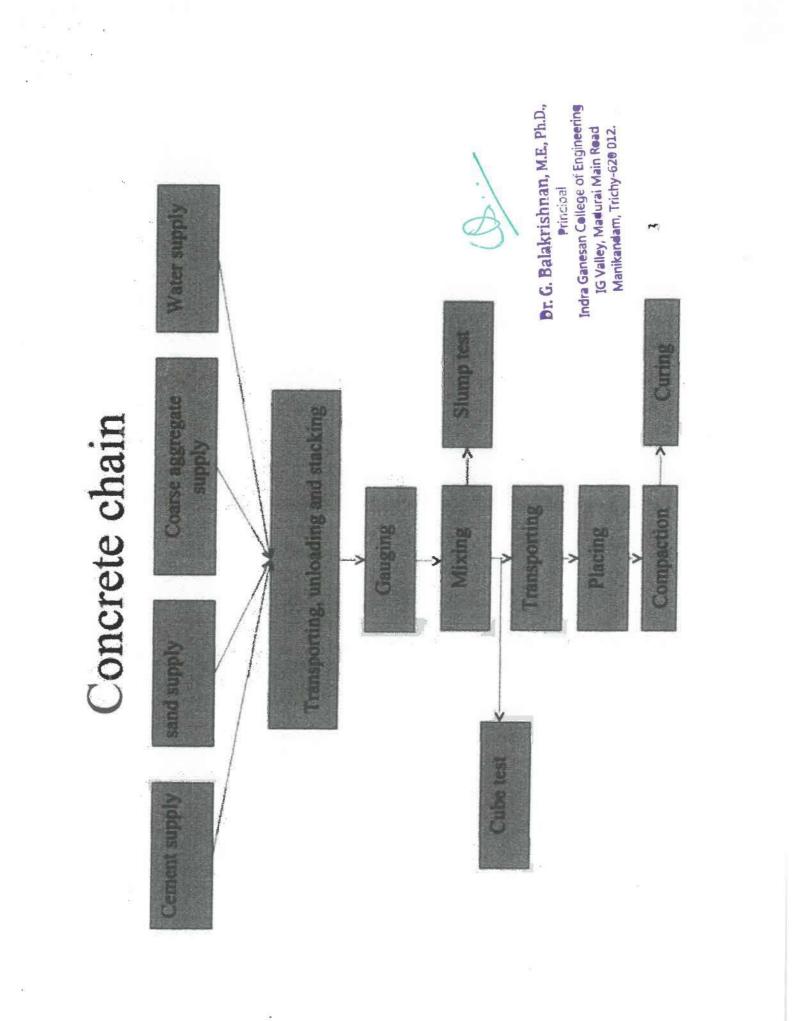
PPT PRESENTATION & BOARD CLASS

Concrete

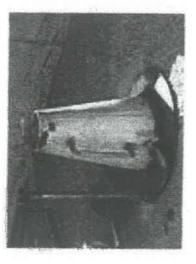
- · One of the very important and widely used material in construction
- The Grade of the concrete is specified by its 28 day's cube strength (E.g. M20 means the cube strength is 20 N/sq.mm)
- Concrete used on works is specified according to IS 456 (2000).

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Slump test to test workability





T.

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Cube test to test the strength

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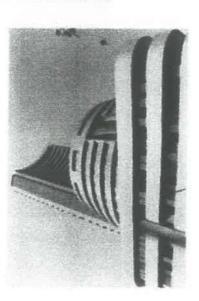


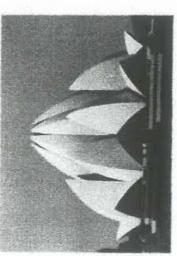
5-

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Formwork system

It is a mold used to shape the concrete and support the concrete until it attains sufficient strength to carry its own weight.



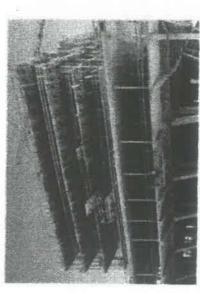


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Types of Formwork

Formwork can be divided into two approaches :

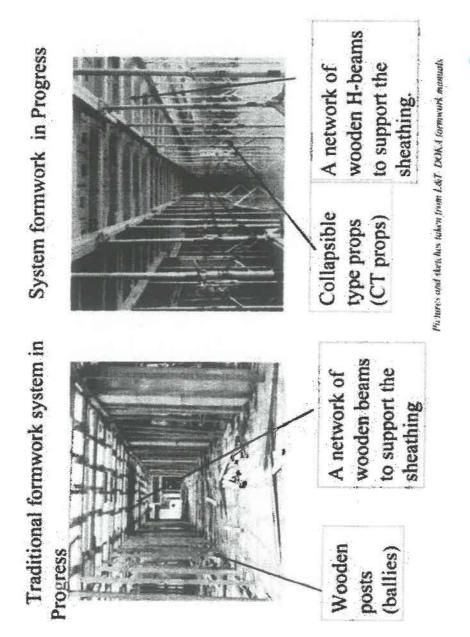
- Traditional approach
- Systematic approach (System formwork)



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Principal Indra Ganesan Coilege of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

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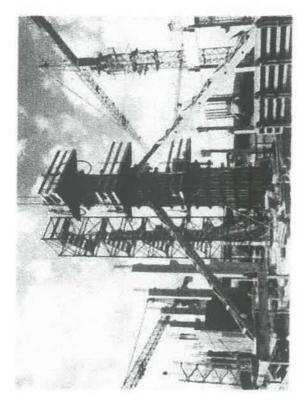


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Manikandam, Trichy-620 012.

Dr. G. Balakrishnan, M.E., Ph.D.,

Column Formwork



Pictures and skew has taken from L&T. PKJK's furmacits mumuls

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Kall Rod M Signature of the Faculty

HoD/Civil

INDRA GANESAN COLLEGE OF ENGINEERING

IG Valley, Manikandam, Tiruchirappalli, Tamil Nadu – 620 012, India (Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

DEPARTMENT OF CIVIL ENGINEERING

Assignment Question Paper

	Assignmen	t – 01	Date of Issue:	31.07.2018 N	larks	10
Course code	CE8391	Course Title	Construction Mat	erials		
Year	п	Semester/Section	ш	Date of Submission:	05.08.2	018

Q.No	Questions	CO
1	Explain the classification of bricks.	CO304.1
2	Illustrate the different types of testing on aggregate.	CO304.1

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Calizer

Name and Signature of the Faculty Incharge

Sivasant.

HoD/Civil

INDRA GANESAN COLLEGE OF ENGINEERING

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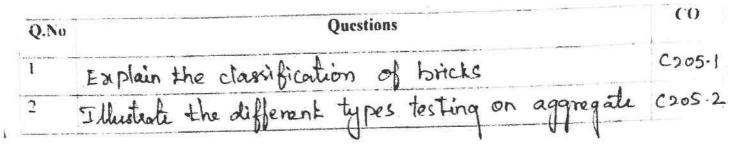
DEPARTMENT OF CIVIL ENGINEERING

Assignment Answer Sheet

Name of the Student : P. Aishwanya

AU Register Number: 811217 103 001

- No pros	Assignment -	01	Date of Issue:		Marks 10
Course code.	CE8391	Course Title	construc	Lion Enginee	m: 04.08 2018
Генг	T	Semester/Section	A/III	Date of Submissio	04.00.200



Mark Allocation

Rubrics	Marks Allocated	Marks obtained
Content Quality	6	4
Presentation Quality	2	2
Timely submission	2	2
Total marks	10	8

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

the Faculty Incharge Name and