NEWSLETTER Department of Civil Engineering



S.V.S.M.D's

Kai. Kalyanrao (Balasaheb) Ingale Polytechnic, Akkalkot



Civil Engineering Department

Welcome



It gives me great pleasure to give my best wishes to Newsletter of department for the academic year 2018-19. The students and faculties of department are always proactive in taking initiatives in technical, cultural and social events, industrial visits and expert lectures etc. I hope this newsletter will serve the purpose of reflecting all activities of department and it will inspire others to do their best.

I wish good luck to the entire team and look forward for your kind patronage to newsletter.

Mr. D.A.Janngonda Head of Department

Vision

• To strive for making Vibrant Civil Engineers for rural community development.

Mission

- M1 To mould Responsible Engineers with Good Discipline Knowledge.
- M2- To transform the Rural Potential into Technical Excellence with The help of Knowledge & Technology.
- M3- To motivate the Students for Becoming Entrepreneur.

Program Educational Objectives (PEOs)

- 1. To equip the students with sufficient knowledge to become leaders in industry.
- 2. Ability to tackle the problems individually and as a team by communicating effectively in the professional world.
- 3. To pursue higher education.

Program Outcomes (POs)

	Basic and discipline specific knowledge: Apply the knowledge of basic
PO1	mathematics, science and engineering fundamental and engineering specialization to
	solve the engineering problems
PO2	Problem analysis: Identify and analyze well-defined engineering problems using
	codified standard methods.
	Design / Development of Solution: Design solutions for well-defined technical
PO3	problems and assist with the design of system components or process to meet
	specified needs.
PO4	Engineering Tools, Experimentation and Testing: Apply the modern engineering
101	tools and appropriate technique to conduct standard tests and measurements.
	Engineering Practices for Society, Sustainability and Environment: Apply
PO5	appropriate technology in context of society, sustainability, environment and ethical
	practices.
	Project Management: Use engineering management principals individually, as a
PO6	team member or a leader to manage projects and effectively communicate about
	well-defined engineering activities.
PO7	Life-long learning: Ability to analyze individual needs and engage in updating in
_ 0 .	context of technological changes.

Expert Talks

- 1. **"Emerging Trends in civil Engg"**by Mr.Bugade sir and Chavan sir from VVP Engineering & Technelogy college for third year students..
- 2. Mr.Khambad C.G.gives a expert lecture on "Personality Development" for third year students.
- 3. Mr.Ligade sir from A.G. PATIL Engineering & Technology college gives an expert lecture on construction management.
- 4. "Concrete Structure Guest Lecture" by Mr. R.G. Maske, Orchid College of Engineering Solapur.
- 5. **"Design of R.C.C. Structure"** by Mr. Peerzade S.K. (Builder &Contractor, Akkalkot)
- 6. **"Significance of Auto Cad"** by Mr. Prashant Karande (CADInstitute, Baramati)
- 7. "Personality Development" by Mrs. Pratibha Chincholkar (Solapur)





Site Visits

Third year students visited the following Site Visits.

- 1. National Highway Visit Maindargi, Akkalkot.
- 2. RMC Plant Maindargi Akkalkot.
- 3. Highway Equipment and Machineries, Akkalkot.
- 4. Visit under DRS and SWM Subject
- 5. Sewage treatment plant, Degaon, Solapur.
- 6. Water Treatment plant, Pakni, Solapur.
- 7. Construction of substructure, Shower N Tower Park, Solapur.
- 8. Construction Site C.B.Khedagi College (Site Visit).
- 9. Solid Waste Disposal, Solid Waste Disposal Plant, NagarParishad,
- 10. Treatment of solid waste, Composting Plant, Solapur Road,
- 11. Treatment of solid waste ,Vermi-Composting Plant,Solapur Road.
- 12. Steel detail, Rathi Cement (Steel Supplier), Solapur MIDC.
- 13. Highway construction ,GRILL Infraprojects Pvt Ltd (Highway).
- 14.Bridge& Culvert, GRILL Infraprojects Pvt Ltd, (Bridge&Culvert).



Construction Site C.B.Khedagi College (Site Visit

STP Visit at Degaon, Solapur.







Highway Visit at Maindargi, Akkalkot.

Co-Curricular activity:

Sr · N o	Type of activity & Details (Paper presentation/Pr oject /Quiz/Etc.)	Date	Name of participating student	Organizing Body &OrganizingInst itute.	Awards (Winner/Part icipation)	Level (State /National /etc.)
1	Super surveyor	7/3/20 19	Akash P. Kamble	A.G. PATIL INSTITUTE OF TECHNOLOGY ,SOLAPUR	2 nd Prize	National
2	Project competition & Exhibition	MAR- 2019	Mr. ThambKedar	ZEAL INSTITUTES NARHE ,PUNE	1 ST RANK	STATE
3	Project competition & Exhibition	MAR- 2019	Mr. Gavandi Prasad	ZEAL INSTITUTES NARHE ,PUNE	1ST RANK	STATE
4	POSTER PRESENTATION	MAR- 2019	Mr. BhaikattiSwapnilAp pasha	SANGAMESHWA R COLLEGE SOLAPUR	PARTICIPATI ON	STATE
5	POSTER PRESENTATION	MAR- 2019	Mr. Pawar V.D	SANGAMESHWA R COLLEGE SOLAPUR	III PRIZE	STATE
6	POSTER PRESENTATION	MAR- 2019	Miss. Kumbhar P.S.	SANGAMESHWA R COLLEGE SOLAPUR	PARTICIPATI ON	STATE
7	POSTER PRESENTATION	MAR- 2019	Miss. Rathod P.P.	SANGAMESHWA R COLLEGE SOLAPUR	PARTICIPATI ON	STATE

Extra-Curricular activity:

Sr. No	Type of activity & Details (SPORTS/DRA MA /SOCIAL/NSS Etc.)	Date	Name of participat ing student	Organizing Body &OrganizingI nstitute.	Awards (Winner/Particip ation)	Level (State /National /etc.)
1	Foundation Day	06/08/201 8	CIVIL DEPT.	INSTITUTE	PARTICIPATION	INSTITUTE
2	Teacher Day	05/09/201 8	CIVIL DEPT.	INSTITUTE	PARTICIPATION	INSTITUTE
3	Engineering Day	15/09/201 8	CIVIL DEPT.	INSTITUTE	PARTICIPATION	INSTITUTE
4	Well-Come Function	05/09/201 8	CIVIL DEPT.	INSTITUTE	PARTICIPATION	INSTITUTE
5	Tree Plantation	15/08/201 8	CIVIL DEPT.	INSTITUTE	PARTICIPATION	INSTITUTE
6	WORKSHOP	27/01/201 9 TO 29/01/201 9	CIVIL DEPT.	INSTITUTE	PARTICIPATION	INSTITUTE
7	VOLLEY BALL	29/12/201 8	INGALE V.R	Institute.	FIRST PRIZE	Institute
8	CRICKET	29/12/201 8	INGALE V.R	Institute.	FIRST PRIZE	Institute
9	CARROM	29/12/201 8	INGALE V.R	Institute.	FIRST PRIZE	Institute
10	CRICKET		MANE M .B(TYCE)	C ZONE CRICKET TOURLAMEN T	PARTICIPATION	ZONAL
11	SWACHH BHARAT(NSS)	25 /01/ 2019	CIVIL DEPT.	INSTITUTE	PARTICIPATION	INSTITUTE
12	TREE PLANTATION	29/01/201 9	CIVIL DEPT.	INSTITUTE	PARTICIPATION	INSTITUTE
13	BLOOD DONATION AND HEALTH CAMP	18/3/2019	51	INSTITUTE	PARTICIPATION	INSTITUTE
14	YOGA	21/06/201	CIVIL DEPT.	INSTITUTE	PARTICIPATION	INSTITUTE

FDP/ STTP ORGANIZED / CONDUCTED

Sr. No.	FDP/ STTP ORGANIZED / CONDUCTED	FROM	ТО	No. of Days
1	FDP on Out Come Based Education System	18/08/2018	19/08/2018	02
2	FDP on Advanced Industries Application based on Auto-CAD	03/03/2019	04/03/2019	02

DEPARTMENTAL EVENT:

Sr.No.	NAME OF EVENT	DATE ORGANISED
1	QUIZ COMPETITION	15/09/2017



QUIZ COMPETITION

Faculty Achievements:

Workshops/Training attended

- Mr.Gram N.A. attended five days training program on "Overview of NBA NORMS & Its Preparation For Accreditation."
- Mrs.Birajdar M.R.attended two days workshop "Standard Practices of Water Waste Water Analysis" organized by Orchid College of Engineering Solapur.
- 3. Mr.Ghatge S.A. attended five days training program on "NBA Norms & Preparation for Accreditation" 'sponsored by MSBTE conducted at A.G.Patil Polytechnic Institute, Solapur.
- 4. Mr.Samane K.R attended five days training program on "NBA Norms & Preparation for Accreditation" 'sponsored by MSBTE conducted at A.G.Patil Polytechnic Institute, Solapur.
- Mr.Jangonda D.A attended one day workshop "Orientation I-Scheme Programme" organized by SSWP, Solapur.
- Mr.Jangonda D.A as a Jury Member attended one day "MSBTE Quiz Competition" organized by G.P Solapur.

Academic Performance:

	TH	IRD YEAR	
SR.NO.	NAME OF THE STUDENT	RESULT IN %	РНОТО
1	KHAJURGIKAR SUSHMA SHANKARLING	89.37	
2	THAMB KEDAR MALLINATH	85.70	
3	BHOSALE SAMARTH SHIVAJI	82.06	

	SECOND '	YEAR	
SR.NO.	NAME OF THE STUDENT	RESULT IN %	РНОТО
	BANGI ARIFA KHALIL AHMED	87.29	dulin de la constant
	MANJULKAR BHIMASHA HULLEPPA	83.71	
	HIPPARGIKAR MUDASSAR MAHIBUB	76.78	

	FIRS	ST YEAR	
SR.NO.	NAME OF THE STUDENT	RESULT IN %	РНОТО
1	BANGI SAIDA KHALIL AHMAD	84.36	
2	KEKAN DASHARATH BUDHAPPA	80.51	
3	GUTTEDAR MANJUNATH LAXMIPUTRA	78.83	S S S

PAPERS PUBLISHED:

Low cost Housing

Submitted by;

- 1. Shaikh Riya Mehboob (Enrollment no.1212050015)
- 2. Hanchate Santosh Shrinivas (Enrollment no.1312050005)
- 3. Wachhe Abhishek Anil (Enrollment no.)
- 4. Dhokale Harshavardhan Ambarishi (Enrollment no.1012050029)
- 5. Rathod Chandrakant Ramu (Enrollment no.1312050008)
- 6. Badure Nagesh Siddharam (Enrollment no.1312050032)

Under the guidance of;

Lect. Ms. Birajdar M.R.

[Lecturer in Civil Engg. Department

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Department of CIVIL Engineering

ABSTRACT

Low Cost Housing is a new concept which deals with effective budgeting and following of techniques which help in reducing the cost construction through the use of locally available materials along with improved skills and technology without sacrificing the strength, performance and life of the structure. There is huge misconception that low cost housing is suitable for only sub standard works and they are constructed by utilizing cheap building materials of low quality. The fact is that Low cost housing is done by proper management of resources. Economy is also achieved by postponing finishing works or implementing them in phases. Now in low cost housing, building material cost is less because we make use of the locally available materials and also the labour cost can be reduced by properly making the time schedule of our work. Cost of reduction is achieved by selection of more efficient material or by an improved design. The sustainability can be defined as meeting

the needs of today without compromising the needs of future generations. Low Cost housing has the potential to produce good quality housing at a price that is affordable both in the short and long term. Thus, Low Cost housing must aim at economic, social and environmental sustainability from planning to implementation phase and at the same time result in housing that is affordable, accessible and environmentally less damaging. The National Urban Housing and Habitat Policy-2007 intends to promote sustainable development of habitat in India with a view to ensuring equitable supply of land, shelter and services at affordable prices to all sections of society. However, the Ministry of Housing defines affordable housing based on revenue, size and several cost-effective measures. For economically weaker sections, affordable housing would mean a unit gauging between 300 and 500 sq.ft with pricing below Rs 5 Lakh for which one can pay Rs. 4,000- Rs. 5,000 as EMI. For mid-income groups, an entity between 500 and 600 sqft with pricing upto Rs 7 Lakh - Rs 12 Lakh for which an EMI of Rs. 5,000- Rs. 10,000 is required to be paid as EMI would be regarded as low cost housing. It covers the use of local materials in the different components of building to make the building low cost and it makes affordable houses for low income people. Owing a house for low income and middle income is becoming a difficult. Hence, it has become a necessity to adopt cost effective, innovative and environment-friendly housing technologies for the construction of houses and buildings for enabling the common people to construct houses at affordable cost. This paper compares construction cost for the traditional and low cost housing technologies.

Low cost housing refers to those housing units which are affordable by that section of society whose income is below than median household income. This depends on three key parameters—income level, size of dwelling unit and affordability. This paper aims to point out the various aspects of predestined building methodologies by highlighting the different available techniques, and the economical advantages achieved by its adoption. In a building the walls, floors and roofs are the most important sections, which can be analyzed distinctively based on the needs, thus, improving the speed of construction and reducing the construction cost. This paper also aims to cover the use of local materials in the different components of building to make them as low cost available solutions for low income groups.

Comparison of strength between normal concrete & admixture concrete.

Submitted by:

- 1. Akoba A.S. (Enrollment no. 1512050138)
- 2. Phulari R.C. (Enrollment no. 1612050140)
- 3. Kembhavi S.B. (Enrollment no.1512050139)
- 4. Kamble A.P. (Enrollment no. 1712050124)
- 5. Dodamani N.A. (Enrollment no. 1712050131)
- 6. Hanamgonda C.B. (Enrollment no. 1512050028)

Under the Guidance of:

Lect. N.A. Gram

[Lecturer in Civil Engg. Department

S.V.S.M.D's K.K.I. Polytechnic, Akkalkot]

Department of Civil Engineering

Abstract- Materials scientists, chemists, engineers, and manufacturers' technical representatives have helped the concrete industry to improve our ability to control work times, workability, strength, and durability of Portland cement concrete by adding some supplementary substances named admixtures.

The function of each admixture focuses on a specific need, and each has been developed independently of the others. Some admixtures already have chemistry that affects more than one property of concrete, and some have simply been combined for ease of addition during the batching process. To better understand recommended usage for various application of these chemicals admixture in concrete, the present study is planned to be obtained more specific information in this direction.

In this investigation on performance of concrete with GGBS and different PCE based water reducing admixture the tests on compressive strength and Workability of the concrete with Ordinary Portland cement and Portland pozzolana cement with GGBS and admixture are carried out at different curing periods for M45 grade of concrete to conclude its behavior.

Best From Waste

Submitted by;

- **1.** Bhaikatti S.A. (Enrollment no. 1612050001)
- 2. Dongaritot P.S. (Enrollment no. 1512050006)
- 3. Rodagi C.M. (Enrollment no.1612050056)
- 4. Thamb K.M. (Enrollment no. 1612050003)
- 5. Hilli S.S. (Enrollment no. 1412050216)
- 6. Patil A.A. (Enrollment no. 1512050025)

Under the Guidance of;

Lect. S.A. Ghatge

[Lecturer in Civil Engg. Department

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Department of Civil Engineering

ABSTRACT

In our country, India, worshiping is the way of living and people offer various offerings to the deities which mainly consist of flowers, leaves, fruits, coconuts, clothes. out of which floral offerings are found in huge quantity. Thus, temple waste has a unique share of flower waste in the total waste. After fulfilling their purpose, flowers along with other waste, find their way into the garbage or are discarded either into some water bodies or left up on the open places as a waste causing various environmental problems. The majorly offered flowers in temples are rose, jasmine, marigold, chrysanthemum, hyacinth, hibiscus, etc. This floral waste can be utilized in different ways to produce valuable products and can thus help to save environment from pollution caused due to improper disposal of flower waste. Techniques like vermicomposting, composting, dyes extraction, extraction of

flower waste and craft tec papermaking	, making of holy of e can also be used chniques. Petals of g by extracting th	for making ind different flow e pulp or by m	eense sticks bes ers can also be ottling them ir	ides using them utilized for had not the readyma	n for some art ndmade nde pulp. In this
	ive reviewed the v products which w				



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Approved by: Directorate of Technical Education (DTE), Mumbai
Affiliated to: Maharashtra State Board of Technical Education (MSBTE),
Mumbai

COURSES OFFERED IN DIPLOMA ENGINEERING

Discipline	Intake Capacity	Duration of Course
Civil Engineering	60	3 Years
Electronics and Telecom. Engineering	30	3 Years
Mechanical Engineering	60	3 Years
Computer Engineering	30	3 Years
Total Intake	180	