Criterion 2 – Teaching, Learning and Evaluation
Key Indicator – 2.3 Teaching-Learning Processes.

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences.

Student centric methods

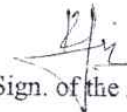| Sr. No.	Different Methods
1	**Experiential Learning** a. Case Studies b. Simulation c. Field Visit d. Industrial Visit e. Internships
2	**Participative Learning** **a.** Brainstorming b. Group Discussion c. Poster Making
3	**Problem solving & Project Based learning** a. Hands-on Projects b. Model Making c. Robot/Drone Making

Experiential Learning

Name of Course Coordinator _Prof. P. L. Indhav_ Academic Year _2014-15_

Class: _S.E. Mech._ Course Name _Applied Numerical Method_

1) Name of Students Participated:
Beske V.B. Khatia Mi. H. Bade I.A. Dalvi R.D. Dange A.S. Desai S.S. Ekbote N.A. Indhav S.B. Tagdale N.A. Katkar A.S. Kende M.V.

2) Types of Experiential Learning used (Apprenticeships, Clinical experiences, Fellowships, Field work, Internships, Practicum's, Service-learning, Simulations and gaming/role-playing)
Simulation.

3) Learning Process
& Compile the Programming code to the Numerical integration problem using Algorithm Flow chart, and 'c' language code

4) Learning Objective
Students able to sol do code in 'c' language for the Numerical integration

5) learning resources and information
computer, and 'c' compiler

6) Outcome of Learning
Programming and Numerical skill for the integration problems are enhanced

Sign. of the Faculty

2

Experiential Learning

Name of Course Coordinator _Dayanand Ghatge_ Academic Year _2014-15_

Class: _T.E Mech_ Course Name _Manufacturing Engineering_

1) Name of Students Participated: _All class_

2) Types of Experiential Learning used (Apprenticeships, Clinical experiences, Fellowships, Field work, Internships, Practicum's, Service-learning, Simulations and gaming/role-playing)

Industrial visit to Oracle Press Comp Pvt Ltd. MIDC Satara on 30/10/2014.

3) Learning Process

Sheet metal work is shown to the students. Various sheet metal operations are shown practically on press machine.

4) Learning Objective

To study the sheet metal work.

5) learning resources and information

Demonstration on press machines. to view the all process flow.

6) Outcome of Learning

Students understood the sheet metal work practically. they cleared their doubts.

Sign. of the Faculty

3

Rayat Shikshan Sanstha's
Karmaveer Bhaurao Patil College of Engineering and Polytechnic, Satara

Experiential Learning

Name of Course Coordinator Dr. Mandave H. A. Academic Year 2014-15

Class: T.E. Mech. Course Name Industrial Mana & OP. Research

1) **Name of Students Participated:** Entire class.

2) **Types of Experiential Learning used (Apprenticeships, Clinical experiences, Fellowships, Field work, Internships, Practicum's, Service-learning, Simulations and gaming/role-playing)**

Role Play, Brain storming

3) **Learning Process**

Group of five students formed virtual organisation. applied principles of mana. by using tools like brain storming, role play etc

4) **Learning Objective**

Students should understand & implement principles of management

5) **learning resources and information**

Function of Mana, prin. used in function of mana, Marketing mana., HR & Material Mana.

6) **Outcome of Learning**

Students acted as marketing mana. Material mana. HR manager & developed strategies related to these functions

HA
Sign. of the Faculty

4

Karmaveer Bhaurao Patil College of Engineering and Polytechnic, Satara

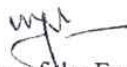## Experiential Learning

Name of Course Coordinator Mrs. Shinde M.Y.   Academic Year 14-15

Class: T.E (Mechanical)   Course Name Machine Design II
      Sem - II

1) **Name of Students Participated:**
   1. Matkar Indrajeet P.
   2. Jadhav Tejas Sunil
   3. Thorat Vijay Prakash
   4. Shinde Vikant.

2) **Types of Experiential Learning used** (Apprenticeships, Clinical experiences, Fellowships, Field work, Internships, Practicum's, Service-learning, Simulations and gaming/role-playing)

   (Field work)
   To observe types of bearings used in different gearboxes.

3) **Learning Process**
   1. In holidays, (Sunday), students visit workshops of two wheeler & four wheeler
   2. They observed different maintanance system.
   3. Where different types of gearboxes & bearing types are observed.

4) **Learning Objective**
   1. Student should able to recognize types of bearings and gearboxes used in two wheeler & four wheeler.

5) **learning resources and information**
   - V.B. Bhandari - Machine Design.

6) **Outcome of Learning**
   Student can recognize, types bearings types of gearboxes.

Sign. of the Faculty

5

Rayat Shikshan Sanstha's
Karmaveer Bhaurao Patil College of Engineering and Polytechnic, Satara

Name of the Program:_____

Experiential Learning

Name of Course Coordinator _____ Academic Year 2014-15
Class:_____ Course Name _____

1) Name of Students
   Participated:

2) Types of Experiential
   Learning used
   (Apprenticeships, Clinical
   experiences, Fellowships,
   Field work, Internships,
   Practicum's, Service-
   learning, Simulations and
   gaming/role-playing)

   Industrial visit to Kiranveer sugar
   facry f Yashwantrao Chavan co-generation
   power plant, Bhuinj, Dist-Satara on 14/3/20

3) Learning Process

   Power plant instruments are shown to
   the students. @ Demonstration are given
   to the students. Working of boiler,
   turbines Generator are observed.

4) Learning Objective

   To study the working of power plant
   instruments & their function.

5) learning resources and
   information

   Demonstration a power plant instruments,
   boiler turbine, alternator are
   carried out.

6) Outcome of Learning

   Student understanding level improved
   they explained very well.

Sign. of the Faculty

6

Karmaveer Bhaurao Patil College of Engineering
Satara

Name of the Program: Mechanical Engg

Experiential Learning

Name of Course Coordinator Dayanand Ghatge Academic Year 2015-16

Class: S.E. Mech. Course Name Machine tools & processes.

1) Name of Students Participated: whole class

2) Types of Experiential Learning used (Apprenticeships, Clinical experiences, Fellowships, Field work, Internships, Practicum's, Service-learning, Simulations and gaming/role-playing)

Industrial visit to kirloskar Brothers Ltd, kirloskarwadi dist-sangli on 03/03/201

3) Learning Process

Various conventional & non conventional machining processes are shown practically

4) Learning Objective

To study the non conventional & conventic machining processes.

5) learning resources and information

Demonstration on various machine tools like Cnc Lathe, VMC, Boring m/c, Cmm, milling m/c, drilling m/c. etc.

6) Outcome of Learning

Students understood the working principl of conventional & non conventional m/c tools.

Sign of the Faculty

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# Karmaveer Bhaurao Patil College of Engineering and Polytechnic, Satara

Experiential Learning

Name of Course Coordinator ___Prof. P. L. Jadhav___ Academic Year __2015-16__

Class: __S. E. Mech.__ Course Name __Applied Numerical Method__

1) Name of Students Participated:

~~Babar A. S.~~ Babbade K. B. Bankar A. K. Divade K. P. God S. U. Jadhav A. J. Malgade H. V. Lathi Patil, Pawar Pranav, Sholar Rohan Sheke A. B.

2) Types of Experiential Learning used (Apprenticeships, Clinical experiences, Fellowships, Field work, Internships, Practicum's, Service-learning, Simulations and gaming/role-playing)

~~simulation~~ Numerical simulation

3) Learning Process

Two group are formed and each group assigned a € Numerical solution for eigh value problem

4) Learning Objective

1) Mathematical Model may be formed
2) simulation results are formed

5) learning resources and information

Computer, C compiler.

6) Outcome of Learning

Creativity of student increased due different logic for different program

Sign. of the Faculty

8

Karmaveer Bhaurao Patil College of Engineering
Satara

Experiential Learning

Name of Course Coordinator Mr. Mahajan S.R.   Academic Year 2015-16

Class: T.E. (Mech)   Course Name Control Engineering

1) **Name of Students Participated:**
    1) Omkar patil
    2) Akshay purohit
    3) Shivani sabale
    4) Akshay kolekar.

2) **Types of Experiential Learning used (Apprenticeships, Clinical experiences, Fellowships, Field work, Internships, Practicum's, Service-learning, Simulations and gaming/role-playing)**

    Field work: Study of control System components.

3) **Learning Process**

    Students should go in Sugar industry & observe different control System components.

4) **Learning Objective**

    Show student should able to learn & recognise types of control System Components.

5) **learning resources and information**

    Internet & Books

6) **Outcome of Learning**

    Student will be able to learn & recognise types of control System component

    Sign. of the Faculty

Karmaveer Bhaurao Patil College of Engineering
Satara

Name of the Program: Mechanical Engineering.

Experiential Learning

Name of Course Coordinator Dr. Mamdave H.A. Academic Year 2015-16

Class: T.E. Mechanical Course Name Industrial Engineering & operations Research.

1) **Name of Students Participated:** Entire class, in a group of five/six students

2) **Types of Experiential Learning used (Apprenticeships, Clinical experiences, Fellowships, Field work, Internships, Practicum's, Service-learning, Simulations and gaming/role-playing)** Role play, field work.

3) **Learning Process** Group of students formed virtual organisation. Students collected information by visiting similar organisation. Students applied principles of organis management & applied for their organisation.

4) **Learning Objective** Students should understand & implement Principles of management

5) **learning resources and information** Books, field visit to collect information.

6) **Outcome of Learning** Students collected information about their organisation & developed strategies related with marketing, materials & functions

Sign. of the Faculty

Karmaveer Bhaurao Patil College of Engineering
Satara

Experiential Learning

Name of Course Coordinator Mr. Mahajan S.R.   Academic Year 2015-16

Class: T.E. (mech)   Course Name Control Engineering

1) **Name of Students Participated:**
   1) Omkar patil
   2) Akshay purohit
   3) Shivani sabale
   4) Akshay koletkar.

2) **Types of Experiential Learning used** (Apprenticeships, Clinical experiences, Fellowships, Field work, Internships, Practicum's, Service-learning, Simulations and gaming/role-playing)

   Field work: Study of control System components.

3) **Learning Process**

   Students should go in Sugar industry & observe different control System components.

4) **Learning Objective**

   Shou student should able to learn & recognise types of control System Components.

5) **learning resources and information**

   Internet & Books

6) **Outcome of Learning**

   Student will be able to learn & recognise types of control System component

   Sign. of the Faculty

Karmaveer Bhaurao Patil College of Engineering
Satara

Name of the Program: Mechanical Engg.

Experiential Learning

Name of Course Coordinator _Dayanand Ghatge_ Academic Year _2015-16_.

Class: _T.E. Mech._ Course Name _Manufacturing Engg_

1)	Name of Students Participated:	All class
2)	Types of Experiential Learning used (Apprenticeships, Clinical experiences, Fellowships, Field work, Internships, Practicum's, Service-learning, Simulations and gaming/role-playing)	Industrial visit to Oracle press comp Pvt Ltd. MIDC Satara on 15/10/2015
3)	Learning Process	Sheet metal operations are shown to the students. Working principle of Press machine is observed by the students.
4)	Learning Objective	To study the sheet metal work.
5)	learning resources and information	Demonstration on press machine, shearing machine. To visit all press plant
6)	Outcome of Learning	Students understood the sheet metal operations.

Sign. of the Faculty

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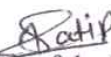# Karmaveer Bhaurao Patil College of Engineering
Satara

Name of the Program: Mechanical Engineering

Experiential Learning

Name of Course Coordinator __Ms Patil P. P.__ Academic Year __2019-18__

Class: __S.E. (Mechanical)__ Course Name __Theory of machine-1__

1) **Name of Students Participated:**
   1) Kante Nikita S.
   2) Lohar Pooja J
   3) Sakhare Nikhil N.
   4) Sakharkar Ranjeet R.

2) **Types of Experiential Learning used** (Apprenticeships, Clinical experiences, Fellowships, Field work, Internships, Practicum's, Service-learning, Simulations and gaming/role-playing)

   field work
   "Study of different drives types.

3) **Learning Process**

   1) Student should visit various manufacturing Industries and observed various drives.

4) **Learning Objective**

   student should able to learn & regonise types of various drives

5) **learning resources and information**

   Books, Internet. - Book by theory of machine by khurmi & Gupta

6) **Outcome of Learning**

   student will be able to learn & recognise types of drives

Sign. of the Faculty

H.O.D.
Mechanical Engineering Department
K.B.P College of Engineering, Satara

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Karmaveer Bhaurao Patil College of Engineering Satara

Name of the Program: Mechanical Engineering

Experiential Learning.

Name of Course: Coordinator- Mr. Dayanand A Ghatge   Academic Year: 2016-17

Class: S.E. Mechanical   Course Name: Machine Tools & Processes(ME214)

1)	Name of Students Participated	KADAM CHANDAN RAJENDRA KALE AKSHAY SOPAN KAMBLE KOMAL PANDURANG KAMBALE SHRIKANT SATISH KARANDE POOJA ANANDRAO KENJALE PRAJAKTA RAJENDRA KUDCHIKAR AISHWARYA SANDESH KUMBHAR AMAR PANDURANG LAD SHIVAM SHANKARRAO MAHAMUNI OMKAR SUNIL
2)	Types of Experiential Learning used (Apprenticeships, Clinical experiences, Fellowships, Field work, Internships, Practicum's, Service-learning, Simulations and gaming/role-playing)	Field work/simulations: To Study the Shaping of Plastic Processes on practical basis
3)	Learning Process	Actual Operation on Field work or simulations of Shaping of Plastic processes
4)	Learning Objective	To Study Working Principle Shaping of Plastic Processes
5)	learning resources and information	Plastic Industry or simulations on internet.
6)	Outcome of Learning	Learned Working Principle of Shaping of Plastic processes on Practical Basis

HOD   Sign. of the Faculty

H.O.D.
Mechanical Engineering Department
K.B.P College of Engineering, Satara

14

Karmaveer Bhaurao Patil College of Engineering
Satara

Name of the Program: Mechanical Engineeing

Experiential Learning

Name of Course Coordinator _Jndhav P.L._ Academic Year _2016-17_

Class: _S.F. Mechanical_ Course Name _Applied Numerical Method_

1)	Name of Students Participated:	1) Jagtap Pratik 2) Karande Pooja 3) Lad Shivam 4) Mohite Pranay 5) More Rutuja 6) Mulla Sahil 7) Nikam Ajay 8) Panaskar Sanket
2)	Types of Experiential Learning used (Apprenticeships, Clinical experiences, Fellowships, Field work, Internships, Practicum's, Service-learning, Simulations and gaming/role-playing)	~~Apprenticeship~~ ~~Field Work~~ Simulation's ~~and gaming~~.
3)	Learning Process	Above students ~~went to shivam~~ ~~industri~~ had assigned to find root of equation by Bisection ~~section~~ Method using 'c' programming
4)	Learning Objective	i) To get hands-on training experienc ii) familiar with Programming language
5)	learning resources and information	i) Computer with 'c' compiler
6)	Outcome of Learning	students able to find roots of equation ~~and ob~~ or know simulation study of Bisection method

Sign. of the Faculty

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Name of the Program: _____

Experiential Learning

Name of Course Coordinator _____ Academic Year _____
Class: _____ Course Name _____

1) Name of Students
   Participated: _____

2) Types of Experiential
   Learning used
   (Apprenticeships, Clinical
   experiences, Fellowships,
   Field work, Internships,
   Practicum's, Service-
   learning, Simulations and
   gaming/role-playing)

   Industrial visit to Gyelc Transmission Ltd Patlchul, on 23/3/2017.

3) Learning Process

   Various conventional & non conventional machining processes are chown.

4) Learning Objective

   To study the conventional & non conventi machining processes.

5) learning resources and
   information

   Demonstration on lathe drilling, milling, grinding boring, broaching cnc lathe gear lhapving, gear shaving, gear hobbing etc.

6) Outcome of Learning

   students understand the conventi nc processes & gear mfg processes.

Sign. of the Faculty

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Karmaveer Bhaurao Patil College of Engineering, Satara

Name of the Program: _____

Experiential Learning

Name of Course Coordinator _____ Academic Year _____

Class: _____ Course Name _____

1) Name of Students Participated: _____

2) Types of Experiential Learning used (Apprenticeships, Clinical experiences, Fellowships, Field work, Internships, Practicum's, Service-learning, Simulations and gaming/role-playing)

Industrial visit to Cycle transmission Ltd. Pathkhal & Spark Engineers pvt Ltd. Satara on 02/09/2016 & 26/9/2016 resp.

3) Learning Process

Design of Jig & fixture and press tie sheet metal operation are shown to the students during this visit.

4) Learning Objective

To study the design of Jig & fixture & sheet metal work.

5) learning resources and information

Demonstration on press machines, drilling, milling machines for understanding the purpose.

6) Outcome of Learning

Students understood the press tech f Jig & fixture.

Sign. of the Faculty

Karmaveer Bhaurao Patil College of Engineering, Satara

Computer Science and Engineering

14/2/2017

Name of Course Coordinator _Mrs. Dipali Gharge._ Academic Year _2016-17 Sem II_

Class: _BE- CSE -II_ Course Name _Web-Technology -II   CL168L05_

1) **Name of Students Participated:** List of present students is attached. as per attendance sheet.

2) **Types of Experiential Learning used (Apprenticeships, Clinical experiences, Fellowships, Field work, Internships, Practicum's, Service-learning, Simulations and gaming/role-playing)** Simulations, and Hands on lab session.

3) **Learning Process** Self made Videos are shared to the Students, Students are taken to the lab for practical Sessions. Where concepts are taught and simultaneously implemented by Students.

4) **Learning Objective** → Students will understand the concept of session handling in PHP.

5) **learning resources and information** Videos, demonstrations.

6) **Outcome of Learning** - As Students implemented the concept quick after learning it, the understanding level is found more, than usual lecturing method.

Sign. of the Faculty

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Name of the Program: Mechanical Engineering

Experiential Learning

Name of Course: Coordinator- Mr. Dayanand A Ghatge   Academic Year: 2017-18

Class: S.E. Mechanical   Course Name: Machine Tools & Processes(ME214)

1)	Name of Students Participated	ANBHULE JAYESH JAGANNATH BADEKAR NIKHIL SATISH BHAT HRISHIKESH SHRIPAD BODHE CHINMAY MOHAN DALAVI AKASH RAVINDRA DESHMUKH OMKAR JAGDISH DESHMUKH SANKET VASANT DOIPHODE RUPESH CHANDRAKANT GUJAR SHUBHAM RAJENDRA KADAM DIGVIJAY SANJAY
2)	Types of Experiential Learning used (Apprenticeships, Clinical experiences, Fellowships, Field work, Internships, Practicum's, Service-learning, Simulations and gaming/role-playing)	Field work/simulations: To Study Casting Processes on practical basis
3)	Learning Process	Actual Operation on Field work or simulations of casting processes
4)	Learning Objective	To Study Working Principle Casting Processes
5)	learning resources and information	Foundry or simulations on internet.
6)	Outcome of Learning	Learned Working Principle of casting processes on Practical Basis

H.O.D.
Mechanical Engineering Department
K.B.P College of Engineering, Satara

Sign. of the Faculty

Karmaveer Bhaurao Patil College of Engineering Satara

Name of the Program:_____

Experiential Learning

Name of Course Coordinator _____ Academic
Year_____

Class:_____ Course
Name_____

1) Name of Students
   Participated: S.E Mech Class

2) Types of Experiential
   Learning used
   (Apprenticeships, Clinical
   experiences, Fellowships,
   Field work, Internships,
   Practicum's, Service-
   learning, Simulations and
   gaming/role-playing)
      Industrial visit to Supreme plastic
   Satara & Beacon Gear Transmission Pvt Ltd
   Satara.

3) Learning Process   Demonstration of shaping of plastic
   & Gear manufacturing process.

4) Learning Objective   To study the shaping of plastic &
   various gear manufacturing process.

5) learning resources and
   information   Demonstration on Injection moulding
   machine and Demonstration on gear
   shaping, gear shaving, gear hobbing
   process, milling process etc.

6) Outcome of Learning   student understood the shaping
   of plastic & gear manufacturing
   process

Sign. of the Faculty

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Karmaveer Bhaurao Patil College of Engineering Satara

Name of the Program: _____

Experiential Learning

Name of Course Coordinator _____ Academic
Year _____

Class: _____ Course
Name _____

1)	Name of Students Participated:	Industrial visit to Mahindra Vehicles Manufacturer Ltd. chakan Pune on 23/9/2017.
		T.E-Mech class
2)	Types of Experiential Learning used (Apprenticeships, Clinical experiences, Fellowships, Field work, Internships, Practicum's, Service-learning, Simulations and gaming/role-playing)	Industrial visit to Mahindra vehicles Manufacturer Ltd chakan Pune on 23/9/20,
3)	Learning Process	Demonstration of Jig & fixtures. Demonstration of sheet metal work
4)	Learning Objective	·To study the jig & fixtures and press tools.
5)	learning resources and information	Demonstration on press machines. Came out. and also demonstration on drill & milling operation m/c by using jig & fixtures.
6)	Outcome of Learning	-Students understood the function of jig & fixtures and sheet metal work.

Sign. of the Faculty

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दिनांक : २९/१२/२०१४

प्रति,

मा. प्राचार्य,

के.बी.पी. अभियांत्रिकी महाविदयालय,

सातारा.

विषय :   शैक्षणिक सहलीस परवानगी मिळणेबाबत.....

महोदय,

उपरोक्त विषयास अनुसरुन कर्मवीर भाऊराव पाटील महाविदयालय, सातारा तृतीय वर्ष पदवी इलेक्ट्रॉनिक्स (विभाग) या वर्गातील आम्ही विद्यार्थी विद्यार्थींनी अभियांत्रिकी शिक्षणाचा एक अभ्यासक्रमातील भाग म्हणून औदयोगिक/शैक्षणिक सहलीचे आयोजन करु इच्छित आहोत.

सदर शैक्षणिक सहल फेब्रुवारीच्या पहिल्या आठवडया दरम्यान हैदराबाद येथे नेण्याचे योजले आहे.

या सहलीस आपण परवानगी देण्याची शिफारस आहे. सहली दरम्यान ज्या काही सूचना व अटी असतील त्याचे काटेकोरपणे पालन केले जाईल.

आपले विश्वासू

सर्व विदयार्थी/विदयार्थींनी तृतीय
वर्ष पदवी इलेक्ट्रॉनिक्स
(सोबत यादी जोडली आहे)

प्रत माहितीसाठी : मा. विभाग प्रमुख, इलेक्ट्रॉनिक्स पदवी विभाग

२५/१२/२०१४.

22

Ref-no --

प्रति,

मा. प्राचार्य,

के.बी.पी. अभियांत्रिकी महाविदयालय,

सातारा.

विषय :   शैक्षणिक सहलीस परवानगी मिळणेबाबत.....

महोदय,

उपरोक्त विषयास अनुसरुन कर्मवीर भाऊराव पाटील महाविदयालय, सातारा
तृतीय वर्ष पदवी इलेक्ट्रॉनिक्स (विभाग) या वर्गांतील आम्ही विद्यार्थी विद्यार्थीनी
अभियांत्रिकी शिक्षणाचा एक अभ्यासक्रमातील भाग म्हणून औदयोगिक/शैक्षणिक सहलीचे
आयोजन करु इच्छित आहोत.

सदर शैक्षणिक सहल फेब्रुवारीच्या पहिल्या आठवडया दरम्यान हैदराबाद येथे
नेण्याचं योजले आहे.

या सहलीस आपण परवानगी देण्याची शिफारस आहे. सहली दरम्यान ज्या काही
सूचना व अटी असतील त्याचे काटेकोरपणे पालन केले जाईल.

आपले विश्वासू

सर्व विद्यार्थी/विदयार्थीनी तृतीय

वर्ष पदवी इलेक्ट्रॉनिक्स

(सोबत यादी जोडली आहे)

प्रत माहितीसाठी : प्रा. विभाग प्रमुख, इलेक्ट्रॉनिक्स पदवी विभाग

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website.www.kbpceps.org.in   E-mail-str.khpsatar@sancharnet.in
TeleFax: 02162-235767   Phone- 230636/235767/233005

Ref. No.: KBPCEPS/ 2857   Date 7-1-2015

प्रति,

मा. सचिव,

रयत शिक्षण संस्था, सातारा.

विषय : हैद्राबाद येथे शैक्षणिक सहलीस परवानगी मिळणेबाबत.

महोदय,

उपरोक्त विषयास अनुसरुन क.भा.पा. अभियांत्रिकी महाविद्यालयातील तृतीय वर्ष पदवी इलेक्ट्रॉनिक्स (विभाग) या वर्गातील विद्यार्थी, विद्यार्थींनींची अभियांत्रिकी शिक्षणाचा एक भाग म्हणून औद्योगिक व शैक्षणिक सहलीचे आयोजन करु इच्छित आहोत.

सदर शैक्षणिक सहल ३ फेब्रुवारी ते ७ फेब्रुवारी २०१५ दरम्यान हैद्राबाद येथे नेण्याचे योजित केले आहे. सदर सहलीसाठी एकूण १९ विद्यार्थी, ३८ विद्यार्थींनी व ३ शिक्षक जाणार आहेत.

या सहलीस आपण परवानगी देण्याची शिफारस आहे. सहली दरम्यान ज्या काही सुचना व अटी असतील त्याचे काटेकोरपणे पालन केले जाईल.

आपला विश्वासू,

प्राचार्य,

क.भा.पा. अभियांत्रिकी महाविद्यालय,

सातारा.

Recommended

7/1/2015

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OFFICE ORDER 3868

DATE: - 03/01/2014

To,

1) Prof. Dr.Kanse Y. K. (Associate Professor)

2) Prof. Dr.Godbole B. B. (Associate Professor).

3) Prof Mrs. Thorat R. A. (Associate Professor)

4) Prof. Shivdas S. S. (Associate Professor)

5) Prof. Nanware J. D.(Associate Professor)

You are deputed to Industrial/Educational visit at Bangalore, Mysore from 10/01/2014 to 15/01/2014 along with T.E./B.E.(Electronics) students. You are entitled for T.A & D.A. as per Sanstha's rule.

Incharge Principal
Karmaveer Bhaurao Patil
College of Engineering and Poly. Satara.

Copy to,

1) Head of Electronics Department

2) Establishment Section

25

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil
College of Engineering & Polytechnic, Satara

Maharashtra State (INDIA) Pin - 415001

Founder : Karmaveer Bhaurao Patil, D.Litt.

[Approved by AICTE, New Delhi, DTE, Maharashtra State - Affiliated to Shivaji University, Kolhapur]

website.www.kbpceps.org.in	E-Mail : str_kbpsatar@sancharnet.in
Tele Fax - 02162-235767	Phone : 230636/235767/233005

REF.NO.: 2776   DATE : 29-12-2014

Department of Electronics
Karmaveer Bhaurao Patil,
College of Engineering and Polytechnic,
Satara.- 415 001

To,
Khodan
Nadgaur D Road, Balanga2,
Hyderabad 9500 097

Subject :- Educational visit of T.E. Electronics students to your company...

Respected sir,

We are proud to introduce ourselves as one of the prestigious Engineering college in Western Maharashtra, run by the well known Rayat Shikshan Sanstha. The college is affiliated to the Shivaji University, Kolhapur.

With a view of exposing our students to industrial environment to enhance their practice approach and encourage Industry and Educational Institute's interaction, we would like to arrange an Industrial Visit of our T.E. Electronics students to your esteemed organization.

A group of 90 Students accompanied by 5 faculty staff members would thus like to visit your company preferably on   we request you kindly permit the group for visit and make arrangement to take them around your company. On getting confirmation of the program, from your side our other visits can be planed

Thanking you in anticipation

Yours Faithfully,

29/12/2014

Head of Dept.
Electronics Eng.

Principal
(Karmaveer Bhaurao Patil College
Of Engineering & Polytechnic,Satara.)

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Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil
College of Engineering and Polytechnic, Satara

Maharashtra State (INDIA) Pin - 415001

Founder : Karmaveer Bhaurao Patil, D.Litt.

[Approved by AICTE, New Delhi, DTE, Maharashtra State - Affiliated to Shivaji University, Kolhapur]

website.www.kbpceps.org.in	E-Mail : str_kbpsatar@sancharnet.in
Tele Fax - 02162-235767	Phone : 230636/235767/233005

REF.NO.: 2776   DATE : 29-12-2014

Department of Electronics
Karmaveer Bhaurao Patil,
College of Engineering and Polytechnic,
Satara.- 415 001

To,

Servomax India Ltd
16,17,18, HCL Post, IDA phase2
Cherlapally , Hyderabad 50005l

Subject :- Educational visit of T.E. Electronics students to your company…
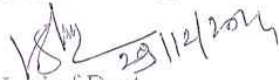
Respected sir,

      We are proud to introduce ourselves as one of the prestigious Engineering college in Western Maharashtra, run by the well known Rayat Shikshan Sanstha. The college is affiliated to the Shivaji University, Kolhapur.

      With a view of exposing our students to industrial environment to enhance their practice approach and encourage Industry and Educational Institute's interaction, we would like to arrange an Industrial Visit of our T.E. Electronics students to your esteemed organization.

      A group of 90 Students accompanied by 5 faculty staff members would thus like to visit your company preferably on   we request you kindly permit the group for visit and make arrangement to take them around your company. On getting confirmation of the program, from your side our other visits can be planed.

      Thanking you in anticipation.

Yours Faithfully,

Head of Dept.
Electronics Eng.

Principal,
(Karmaveer Bhaurao Patil College
Of Engineering & Polytechnic,Satara.)

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REF.NO.: 2776   DATE: 29-12-2014

Department of Electronics
Karmaveer Bhaurao Patil,
College of Engineering and Polytechnic,
Satara.- 415 001

To,
Bharat heavy Electrical Ltd
Ramchandrapuram Hyderabad 502032
ph. 040- 23182234

Subject :- Educational visit of T.E. Electronics students to your company...

Respected sir,

We are proud to introduce ourselves as one of the prestigious Engineering college in Western Maharashtra, run by the well known Rayat Shikshan Sanstha. The college is affiliated to the Shivaji University, Kolhapur.

With a view of exposing our students to industrial environment to enhance their practice approach and encourage Industry and Educational Institute's interaction, we would like to arrange an Industrial Visit of our T.E. Electronics students to your esteemed organization.

A group of 90 Students accompanied by 5 faculty staff members would thus like to visit your company preferably on   we request you kindly permit the group for visit and make arrangement to take them around your company. On getting confirmation of the program, from your side our other visits can be planed.

Thanking you in anticipation.

Yours Faithfully,

23/12/2014
Head of Dept.
Electronics Eng.

Principal,
(Karmaveer Bhaurao Patil College
Of Engineering & Polytechnic,Satara.)

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website.www.kbpceps.org.in TeleFax: 2162-235767	E-mail-str.kbpsatar@sancharnet.in Phone- 230636/235767/233005

Ref. No.: KBPCEPS/4392/25/2/14   Date 25/2/14

To,
The Secretary
Rayat Shikshan Sanstha
Satara.

Sub:-Permission for Educational visit.

Respected sir,

With the reference above, we wish to organize an educational visit of S.E. Electronics Students from K.B.P.College of Engineering & Poly, Satara.

Giant Metrewave Radio Telescope (GMRT) is the largest Radio Telescope in the world which is located at Khodad (Near Narayangaon, Dist- Pune). on the occasion of Science day on 28/02/2014. GMRT has arranged largest and unique Science exhibition which will be very useful to students to enhance their Knowledge.

As the part of syllabus it is compulsory for the SE students in the subject of Analog Communication to visit the radio station, So permission may please be granted for the educational visit to Khodad. During the visit we will follow rules and regulations of College & Rayat Shikshan Sanstha.

Thanking you,

Yours faithfully

for Principal

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To

The Principal
Karmaveer Bhaurao Patil
College of Engg. & Poly,Satara.

Sub:-Permission to visit G.M.R.T at Khodad , Narayangaon, Dist – Pune.

Sir,

We the students of S.E. Electronics, wish to visit G.M.R.T on 28th Feb 2014 at Khodad near Narayangaon, Pune Dist. We request you to give permission for the same.We will follow the rules & regulations of College & Rayat Shikshan Sanstha.

Thanking you,

Your s Faithfully

Student of S.E. Electronics

For S. E. Electronic is in in syllabus
sub - Analog commn. It is of
industrial visit to Radio station,
They are going to see Transmitter,
Receiver, Antenna.
forwarded with
recommendation

Permitted
21/2/2014

30

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भा.क्र. 4394

OFFICE ORDER

DATE: - 26/02/2014

To,

1) Prof Mrs. Throat R. A. (Associate Professor)

2) Prof. Dr.Godbole B. B. (Associate Professor).

3) Prof. Nanware J. D. (Associate Professor)

4) Prof. Dr.Kanse Y. K. (Associate Professor)

5) Prof Mrs. Mane S.V. (Assistant Professor)

You are deputed to Industrial/Educational visit at Khodad, Narayangaon on 28/02/2014 along with S.E. (Electronics) students. You are entitled for D.A. as per Sanstha's rule.

Incharge Principal
Karmaveer Bhaurao Patil
College of Engineering and Poly. Satara.

Copy to,

1) Head of Electronics Department

2) Establishment Section

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Names for industrial visit to Narayangaon (GMRT).
(Radio telescope)

Name	Roll no	sign
Dhanashri · R. Jadhav	48	DRJadhav
Poonam · P. Jadhav	50	Palav
Ashwini · P. Khandjode	70	A.P.Khandjode
Himani · U. Date	25	Himani
Jagtap. Jyoti Narayan.	56	Jagtap
Riya ·Arun kanse	64	RAkanse.
Kulkarni Rasika. M.	77	R.M.kani
Gaikwad Priyanka Rajaram	83	P.R.Gaikwad
Jadhav Ashwini Sopan	46	R.Jadhav
1) Ghorpade Rhutuja Mahadev	40	Ghorpade
2) Jangaware Sayali Shashikant	35	Sayali
3) Jadhav Nikhita Chandrabhan	49	Jadhav
3) Ghorpade Vrushali Prakash	41	Vgb
4) Jadhav Priyanka Sudhakar	52	Jadhav
5) Bhosale Rucha Ravindra	10	RBhosale
Mahadik Shivanjali Dhananjay	82	SDMahadik
Bhosale Priyanka Ishwar	9	P.Bhosale
8) Gaigaokar Surbhi	42	Surabhi
19) Borate Kalyani Dilip	15	Borate
20) Dhane Prajakta Ajay	30	Dhane
21. Gade Pranita Vasant	31	Gade
22) Ghadge Shubhada Sanjay	37	Ghadge
23) Ghadge, Snehal Sadashiv	38	Ghadge
24] Babar Pranita Pradip	04	Pnita
25] chavan Priyanka Shridhar	19	P.S.chavan
26] chavan Pallavi Kalyan	18	P.chavan
27] chavan Akanksha C.	16	A.chavan
28] chavan Supriya Yuvraj	21	S.Ychavan
29] Bodake Jyoty Sambhaji		Bodake
30] chavan Hitesh Ghansham	17	Chavan
31) Bhosale suhas T.	11	
32) Davande shubham U.		
33) chavan Roham Ramesh.		Roham
34) Tanuibal vishal pradip.		Vishal.

Industrial Visit   SE (Electrical)

Roll No.	Name	Sign
83		
84	Mane Akash Sopan	A.Mane
85	Mane Bhushan Atul	B.Mane
86	Mane Gauri Vijaysing	G.Mane
87	Mane Revati Rajendra	R.R.Mane
88	Mane Sayaji Sambhaji	S.Mane
89	Mantri Darshana Dattakumar	D.Mantri
90		
91		
92	More Aarti Shrikant	A.S.More
93	Mule Payal Avinash	P.A.Mule
94	Mundravale Tushar Umesh	T.U.M.
95	Nadaf Nagma Kayyum	N.Nadaf
96	Nalavade Rutuja Ashok	Rutuja.
97	Nikam Namrata Changdeo	Nair
98		
99	Patil priyanka shivajirao	P.Patil
100	Patil sameung Sadashiv	Sameung.P
101	Pattanshetti Sanket M.	Pattanshetty
102	Pawar Abhishek Dinkar	Pawar
103	Pawar Ajit vilas	Pawar
104	Pawar Ashwini Vishnu	Pawar
105		
106		
107	Phadatare Tanuja krishnat	R.K.P
108	Phadtare Vinaya Shivaji	Phadtare
109	Phalane Madhuri Anil	M.A.Phalane
110		

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Roll no.	Name	Sign
111	Phatak Veunda Vaman	Phatak
112		
113	Raje Swapnali . D	Raje
114	Rakshe Bhagyashri Vilas	Rakshe
115	Rambhore Sayali Vijaykumar.	Rambhore
116	Rasal Vimal Vilas	Rasal
117	Raut sneha vilas	Raut
118		
119	sabale Tejaswi kamalakar.	Sabale
120	Sadawarte Arvdhati mukund	Sadut
121	Sakunde Shivani sanjay	Sakunde
122		
123	Salunkhe komal Sahebrao	Salunkhe
124	Salunkhe Sayali Jaywant	Sayali
125		
126	Shaikh Aayesha Majjid	Shaikh
127		
128	Shinde Jagruti. K.	Shinde
129		
130	Shinde Nisarga tambak	Shinde
131	Shinde Pragati Dattetrey.	Shinde
132	Shinde Samiksha Dinkar	Shinde
133		
134	shinde Vijaya shivich	Shinde
135	Shinde Vrushali Sampat	Shinde
136	shingate. Shraddha Bharat	Shingate
137		
138		

34

Roll no.	Name	Sign
111	Phatak Vrunda Vaman	Phatak
112		
113	Raje Swapnali . D	Raje
114	Rakshe Bhagyashri Vilas	BRakshe
115	Rambhore Sayali Vijaykumar.	Rambhore
116	Rasal Vimal Vilas	Rasal
117	Raut Sneha Vilas	Raut
118		
119	Sabale Tejaswi Kamalakar.	Sabale
120	Sadawarte Arundhati Mukund	Sadi.t
121	Sakunde Shivani Sanjay	Arunde
122		
123	Salunkhe Komal Sahebrao	Salunkhe
124	Salunkhe Sayali Jaywant	Sayali
125		
126	Shaikh Aayesha Majjid	Shaikh
127		
128	Shinde Pragya Jagruti. K.	Shinde
129		
130	Shinde Nisarga Trimbak	Shinde
131	Shinde Pragati Dattatray.	Shinde
132	Shinde Samiksha Dinkar	Shinde
133		
134	Shinde Vijaya shivrh	Shinde
135	Shinde Vrushali Sampat	Shinde
136	Shingate. Shraddha Bharat	Shingate
137		
138		

35

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To,
The Principal
Karmaveer Bhaurao Patil
College of Engineering &Polytechnic.
Satara 415001.

Kind Attention:
Head
Dept. of Electronics

Respected Sir,

My ward Mr./Miss....Valkunde....Puja....Bhanudas...is
studying in S.E. /T/E. (Electronics Engg.) Div:-.........B........... Roll No......157... of your college.
     As per our knowledge his /her Industrial/Educational tour is arranged on 28th
February. 2014 to visit Giant Meter Radio Telescope khodad, Narayangaon. With the
travelling expenses of Rs.400/- per student.
     We hereby permit our son/daughter to join the tour with our knowledge and
consent. We hereby undertake that our Son/daughter will follow all the rules and
regulations during the tour.
     We are also aware that he/she will be fully responsible for any misconduct or the
theft or accident leading to loss as the case may be and we will not claim any compensation
for the same. Thus we absolve the college from any kind of liabilities in the case of any
unfortunate mishap concerning to our ward.
     We hereby also provide our address and telephone numbers which the college might
need in case of emergency.

Yours faithfully –

Name and Signature of the parents 1) Valkunde Bhanudas Yashavant-

        2) Valkunde Hema Bhanudas - H·B·

Permanent Address:- At. Po. Dhangarwadi, old M.I.D.C., Satara

Telephone No.(with STD code) :-

Mobile no. :- 9822902418

Date:- 28-2-2014
Place:- Satara.

Head
Department of Electronics
K. B. P. College of Engg.
Satara.

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209

I ...Miss. Valkunde... Puja... Bhanudas the student of Karmaveer Bhaurao Patil college of Engg. & Poly. Satara, studying in S.E./T.E.(Elect) Div: ...B... Roll no: ..157.. Proceeding on 28th February 2014 for Industrial / Educational tour to Khodad, Narayengaon. and back to Satara. The tour is scheduled on 28th February 2014.

I am joining this tour with prior intimation & permission from my parents and there is no objection from them.

I hereby undertake that I will behave in most disciplined manner and follow all the rules and regulations and instructions given by college, faculty members, staff and tour organizers. I also undertake that. I will be fully responsible for whatever consequences of any theft, Mishap or loss etc. which may occur unfortunately to me during this tour. I will not claim any compensation from college or accompanying students, the staff or faculty members and I am aware that they will not be liable for the same.

I sign this undertaking with my own consent and will abide by it.

Yours faithfully
Students name & signature
Valkunde puja Bhanudas
Valkunde

Date:- 28-2-2014   (Name:- Valkunde Puja B.)

Place:- Satara

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Rayat Shikshan Sanstha's
Karmaveer Bhaurao Patil College of Engineering, Satara

Participative Learning Activity

Academic Year: 2016-17 Semester:- I / II Class T.E Production

Course name: Quality Management

Name of the Activity Group Discussion

Objective: To explore the students thinking & find out the solutions or causes for the problem.

Outcome: To get no of ways or solution for the problem.
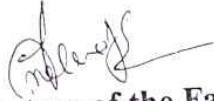
Activity Conduction Details: The day to day problem was given to the students elike mileage of the vehicle & brainstorming session was conducted to identified the no of causes which are affecting the mileage of vehicle, such as environmental effect, maintenance issue, training of the operator, type pressure etc.

Number of Participants: 20

Attachments:
    List of participants
    Any another proof

Signature of the Faculty

38

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Participative Learning Activity

Academic Year: 2017-18 Semester:- I / II Class _SE Production_

Course name: _Machine Drawing_

Name of the Activity _Group Discussion_

Objective: _To evaluate their thinking skills, technical knowledge, listening ability and how they are communicating their thoughts._

Outcome: _Student should be able to understand the key skills & get various ways or teq. techniques for problems._

Activity Conduction Details:
Daily life problem was given to the groups. Also the group discuss the requirements of industry. They convey their thoughts, ideas.

Number of Participants: _08 (2-8-17)_

Attachments:
List of participants
Any another proof

Signature of the Faculty

39

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Participative Learning Activity

Academic Year: 2017-18 Semester:- I / II Class _____ T. E.

Course name: Theory of Machine - II

Name of the Activity Two way teaching-learning process

Objective: To understand various concepts of Tom-II by discussing with students.

Outcome: Students are able to ask their doubts & they are interested in it.

Activity Conduction Details:
By doing sparingly discussion with students, so that they gets cleared their doubts.

Number of Participants: 14

Attachments:
List of participants
Any another proof

Signature of the Faculty

40

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Participative Learning Activity

Academic Year: 2017-18 Semester:- I / II Class T.E.

Course name: Design of Machine element.

Name of the Activity Group discussion regarding selection of proper material for components.

Objective: To learned how to select proper material while designing any machine part

Outcome: Students will able to studied how to select the proper material by considering factors like strength, durability, factor of safety etc.

Activity Conduction Details:

list of components is given to students & load conditions are given, now by using data book or by using reference book, they have to choose proper material for respective component so that they get they values of Gy, Gc & τ.

Number of Participants: 29-09 (08)

Attachments:
   List of participants
   Any another proof

Pcuil
Signature of the Faculty

Rayat Shikshan Sanstha's
Karmaveer Bhaurao Patil College of Engineering, Satara

Participative Learning Activity

Academic Year: 17-18 Semester:- I/ II Class T.E. Production

Course name: Metrology

Name of the Activity Question Answer.

Objective: To brainstorm the Students about thinking various techniques used for various measurement techniques for different jobs.

Outcome: The student will be able to explore the methods for measuring the different methods for various jobs.

Activity Conduction Details:
The students were defined with various shapes of jobs & told to identify the various combination of instrument & accessories used for measurement to measure the job. Hints were given to Students so that student can think & various suggestion were given from the students for measuring the different jobs

Number of Participants: 15

Attachments:
  List of participants
  Any another proof

Signature of the Faculty

42

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Participative Learning Activity

Academic Year: 2017-18 Semester:- I /II Class B.E Production.

Course name: Operations Research

Name of the Activity Group Activity

Objective: To understand the basic needs of the project & identify the no of days reqd. & to have the team work.

Outcome: The Student will be working in team work to identify the activity seleted to project

Activity Conduction Details:

The students project group were performed to list out the activities related to their project work. Starting from searching to Report Submission. The duration for each activity was informed to identify & to draw the network diagram After the network diagram there were informed to find out Critical path so that they can understand the activities which are critical & where they have to concentrete more rigrously so that the project duration will get Completed within time.

Number of Participants: 37

Attachments:

List of participants

Any another proof

Signature of the Faculty

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Department of CIVIL Engineering

Participative Learning Activity

Academic Year : 2017-2018

Class : S. E. Civil Sem. 4

Course with Code: SURVEYING II (CE 207)

Objectives: To make the students to participate in the process of learning.

Methodology: For this purpose, a set of multiple choice questions were posed before the students and they were made to answer primarily and hence they were made to give justifications to the answer so that the concepts became more clear.

Participants: Roll Nos.   (a) 04,09,15,18,20

(b) 25,30,35,40,43

(c) 45,51,55,57,65

Outcomes: Since they were made to participate in answering and hence learning, the process was harmonious and challenging.

Course Coordinator

Head of Dept.

44

212. If staff is held vertical and angle of elevation and depression are kept same, then horizontal distance between instrument and staff station is computed by observations will be
    (a) greater at an angle of elevation
    (b) greater at an angle of depression
    (c) same in both case
    (d) none of these

213. In stadia method, if k is the multiplying factor, s is the staff intercept, c is the additive constant of instruement, then distance equation is given by the expression
    (a) $D = k + cs$
    (b) $D = ks + c$
    (c) $D = k/s + c$
    (d) none of these

214. Subtense bar is an instrument used for measurement of horizontal distance in
    (a) undulated areas
    (b) flat areas
    (c) mountains
    (d) all of these

215. Overturning of vehicles on a curve can be avoided by using
    (a) transition curve
    (b) vertical curve.
    (c) compound curve
    (d) reverse curve.

216. A curve of varying radius introduced between two branches of a compound curve is called
    (a) transition curve
    (b) mean curve
    (c) base curve
    (d) common curve

217. A transition curve introduced between the tangent and the circular curve should
    (a) have the same curvature at the junction with the circular curve as that of the circular curve
    (b) have zero curvature at the junction.
    (c) meet the curve tangentially.
    (d) none of these

218. Different grades are joined together by a
    (a) compound curve
    (b) reverse curve
    (c) vertical curve
    (d) transition curve.

219. Cubic parabola is a type of
    (a) compound curve
    (b) simple curve
    (c) reverse curve
    (d) transition cuve.

220. If length of a transition curve is such that full super-elevation is attained at the junction with the circular curve, then resultant curve is called
    (a) compound curve
    (b) combined curve
    (c) reverse curve
    (d) simple curve.

221. Angle subteded by the long chord of a simple curve at its centre is equal to
    (a) deflection angle
    (b) 2 × deflection angle
    (c) ½ × deflection angle
    (d) none of these

222. A curve tangential to three straight lines and consisting of areas of different radii is called
    (a) one centred compound curve
    (b) two centred compound curve
    (c) three centred compound curve
    (d) four centred compound curve.

223. Chrod of curve less than peg interval is called
    (a) small chord
    (b) shord chord
    (c) long chord
    (d) sub chord.

224. Angle of intersection of a curve is the angle between
    (a) forward tangent and long chord
    (b) back tangent and long chord
    (c) back tangent and forward tangent
    (d) none of these

225. Radius of curvature of a 120 m long are is given by the expression
    (a) R = 1146/D metres
    (b) R = 540/D metres
    (c) R = 1/D metres
    (d) none of these
    where D is degree of curvature

226. If Δ is angle of deflection of a simple curve of radius R, then length of the curve is
    (a) $\dfrac{\pi R \Delta}{90}$
    (b) $\dfrac{\pi R \Delta}{180}$
    (c) $\dfrac{\pi R \Delta}{270}$
    (d) $\dfrac{\pi R \Delta}{360}$

227. If Δ is angle of deflection of a simple curve of radius R, then length of its long chord is
    (a) $R \sin \dfrac{\Delta}{2}$
    (b) $2R \sin \dfrac{\Delta}{2}$
    (c) $R \cos \dfrac{\Delta}{2}$
    (d) $2R \cos \dfrac{\Delta}{2}$

228. If Δ is angle of deflection of a simple curve of radius R, then length of the tangent of a curve is
    (a) $R \sin \dfrac{\Delta}{2}$
    (b) $R \cos \dfrac{\Delta}{2}$
    (c) $R \tan \dfrac{\Delta}{2}$
    (d) $2R \tan \dfrac{\Delta}{2}$

229. Two theodolie method of setting out a simple curve does not include
    (a) linear measurements
    (b) angular measurements
    (c) both (a) and (b)
    (d) none of these

230. If Δ is the angle of deflection of a simple curve of radius R, then length of the tangent of a curve is
    (a) Δ
    (b) $\dfrac{\Delta}{2}$
    (c) $\dfrac{\Delta}{3}$
    (d) $\dfrac{\Delta}{4}$

231. Shift of a curve is equal to
    (a) $\dfrac{L}{6R}$
    (b) $\dfrac{L^2}{6R}$
    (c) $\dfrac{L}{24R}$
    (d) $\dfrac{L^2}{24R}$

232. Length of perpendicular offset from a tangent to the juction of a transition curve and circular curve is equal to
    (a) shift
    (b) 2 × shift
    (c) 3 × shift
    (d) 4 × shift

233. Radial offset at a distance x from the point of beginning of curve of radius R is equal to

(a) $R - \sqrt{R^2 + x^2}$
(b) $R + \sqrt{R^2 + x^2}$
(c) $\sqrt{R^2 + x^2} - R$
(d) none of these

234. Total angle of deflection of transition curve is equal to

(a) spiral angle
(b) 1/2x spiral angle
(c) 1/3 spiral angle
(d) 1/4 spiral angle.

235. For ideal transition, distance from the begining of the transition curve to any point is

(a) directly proportional to the radius of curvature at that point
(b) inversely proportional to the radius of curvature at that point
(c) inversely proportional to the square of the curvature at that point
(d) none of these

236. If radius of circular curve is five times the length of the transition curve, then spiral angle is given by

(a) 1/5 radian
(b) 1/10 radian
(c) 1/20 radian
(d) 1/25 radian

237. If an upgrade of 1% is followed by a downgrade of 0.5% and rate of change of grade is 0.1% per 20 m chain, then length of vertical curve is equal to

(a) 100 m
(b) 200 m
(c) 300 m
(d) 400 m.

238. The difference in elevation of points between a vertical and a tangent is proportional

(a) directly to the horizontly distance from the point of tangency.
(b) inversely to the horizontly distance from the point of tangency
(c) inversely to the square of horizontal distance
(d) directly to the square of horizontal distance.

239. Super elevation provided at the point of reverse curvature in a reverse curve is

(a) maximum
(b) minimum
(c) 0
(d) none of these

240. A lemniscate curve will not be transitional throughout if the deflection angle is

(a) 30°
(b) 45°
(c) 60°
(d) 90°

241. If long chord and tangent length of a circular curve of radius R are equal, then angle of deflection will be

(a) 60°
(b) 120°
(c) 180°
(d) 90°

242. Ratio of the length of long chord and the tangent length of a circular curve of radius R, deflecting through angle Δ is

(a) $\sin \dfrac{\Delta}{2}$
(b) $2 \sin \dfrac{\Delta}{2}$
(c) $\cos \dfrac{\Delta}{2}$
(d) $2 \cos \dfrac{\Delta}{2}$

243. Ratio of the radius and appex distance of a curve deflecting through angle Δ is

(a) $(\cos \dfrac{\Delta}{2} - 1)$
(b) $(1 - \cos \dfrac{\Delta}{2})$
(c) $(\sec \dfrac{\Delta}{2} - 1)$
(d) $(1 - \sec \dfrac{\Delta}{2})$.

244. If radius of curvature of a simple circular curve is 229.2 m, then its degree of curvature is

(a) 2°
(b) 3°
(c) 5°
(d) 10°

245. Length of the chord for calculating offsets by the method of chords produced, when radius of a simple curve is R, should not exceed

(a) $\dfrac{R}{5}$
(b) $\dfrac{R}{10}$
(c) $\dfrac{R}{20}$
(d) $\dfrac{R}{30}$

246. "Point of curve" of a simple circular curve, is

(a) point of commencement
(b) point of tengency
(c) point of inter-section
(d) all of these

247. Correction applied to base line having negative sign is

(a) reduction to mean sea level
(b) correction for horizontal alignment
(c) correction for sag and slope correction
(d) all of these

248. If $(i_a - i_b)$ is difference of heights of instruments and $(S_a - S_b)$ is difference of heights of signals, then required correction for height of signals and instruments is

(a) $\dfrac{1}{2} \{(i_a - i_b) + (S_a + S_b)\}$
(b) $\{(i_a - i_b) + (S_a + S_b)\}$
(c) $\dfrac{1}{2} \{(i_a - i_b) - (S_a + S_b)\}$
(d) $\{(i_a - i_b) - (S_a + S_b)\}$

249. Reduced level of a bench mark is

(a) independent quantity
(b) dependent quantity
(c) conditioned quantity
(d) reduced quanity.

250. When observed value is deducted from the measurement from some related quantities, it is called

(a) deduced observation
(b) indirect observation
(c) direct observation
(d) none of these

DEPARTMENT OF CIVIL ENGINEERING
CLASS –S.E. CIVIL PART –I (2016-17)
SUB- Strength of Materials
Term Work Evaluation Report (Batch C1)

Roll No.	Seat no.	Name	Unit Test Marks		Test Marks (Out of 5)	Class Attendance (Out of 5)	Continuous Assessment (Out of 15)	Total Marks (Out of 25)	Remarks
			I(25)	II(25)					
01		Awate Vaibhav Hiralal	09	08	03	03	08	14	
02		Bhosale Pranav Mahendra	08	12	03	03	09	15	
03		Biradar Mahesh Shivraj	09	10	03	04	09	16	
04		Chavan Sushant Suresh	07	03	02	05	12	19	
05		*Chikane Pooja Ramesh	04	12	02	04	12	18	
06		Deshpande Aditya Ashutosh	07	04	02	05	13	20	
07		*Devkar Supriya Sanjay	02	12	03	04	12	19	
08		*Dhane Mrunal Dadasaheb	05	12	02	04	12	18	
09		*Dhane Pooja Dilip	04	12	03	04	10	17	
10		Dhumal Akshay Anil	11	11	03	04	10	17	
11		Dhumal Vivek Pandharinath	08	12	03	04	07	14	
12		Duduskar Sandeh Shivaji	02	12	02	04	13	19	
13		Gaikwad Rohan Ashok	01	12	02	03	12	17	
14		Ghamare Akshay Prabhakar	05	11	02	03	08	13	
15		*Gurav Namrata Rajendra	07	11	03	04	11	18	
16		*Itraj Shivani Santosh	12	12	03	04	14	21	
17		Jadhav Rishikesh Krishnath	02	13	02	04	10	16	
18		Jagdale Rushikesh Machhindra	00	12	02	04	10	16	
19		Kadam Raghavendra Uttam	00	AB	00	00	10	10	
20		Kanase Amit Mohan	01	00	00	01	10	11	
21		Kanase Pritam Dhananjay	01	02	00	02	10	12	
22		Karande Shubham Pratap	02	10	01	03	10	14	

(N. K. Patil)

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Rayat Shikshan Sanstha's
Karmaveer Bhaurao Patil College of Engineering and Polytechnic, Satara

Participative Learning Activity

Academic Year: 2015-16 Semester:- I̶/ II Class BE civil

Course name: Construction Practices

Name of the Activity Objective questions on Tractors, Bulldozers, Scrappers, Powershovel, Drag line, clamshell, & Trenchers etc

Objective: 1] To built the confidence in students.
2] To built good coordination between the students.
3] To motivate the students for competitive exam.

Outcome: 1] Good study groups was formed.
2] ~~Good~~ Increase knowledge about the subject.
3] Create interest in the subject.
4] To built the confidence in the subject.

Activity Conduction Details:
Multiple choice questions given to the students and slave from them during lecture hours. Activity of this date conducted on 21/01/2016 and 09/02/2016 during lecture hours.

Number of Participants: 42 and 55

Attachments:
    List of participants
    Any another proof

Signature of the Faculty

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Karmaveer Bhaurao Patil College of Engineering, Satara

Participative / Participatory Learning Approach (PLA)

Year → 2016-17

Program: Civil   Class: BE (Sem-I)   Course: Remote Sensing and Application of GIS in Civil Engineering

Sr. No	Details of the Activity	Unit and topic/content for which activity is planned	Name/ Roll Numbers of the students involved	Objective	Outcome	Remark
1)	Slove MCQ	Remote Sensing	Roll No : → 13, 21, 30, 46, ● 91 13 → Gaikwad Sanket 21 → Jadhav Mahisha 30 → Jedhe Sharayu 46 → Madane Shubham 91 → Vibhute Amol	1] Students will respond Voluntarily. 2] They will come forward and form group and work as team. 3] To built the confidence in students.	1] Students took initiative and formed group 2] Students worked as a team. 3] Students Sloved MCQ on above topic confidently.	

Faculty Sign: [signature]

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Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Participative Learning Activity

Academic Year: 2016-17 Semester:- I / II Class TE C&E

Course name: Computer Algorithm

Name of the Activity Face to Face - Question Answering

Objective: ① study and understand given topic.
② To inculcate leadership quality into students.
③ To improve communication skills.

Outcome: ① Able to Explain given topics..
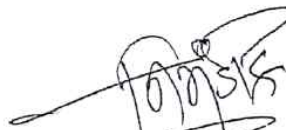
Activity Conduction Details:
1. List of topics distributed among students.
2. students give the oral or presen. of given topics.
3. Attentee students ask question directly students who explain the topic.
4. students tray to resolve the queries of another students.
5. If students are failed to explain, then faculty explain the topic.

Number of Participants: 17+14+16+14+9 = 61

Batch A = 23/08/2016
B = 24/08/2016
C = 25/08/2016
D = 23/08/2016
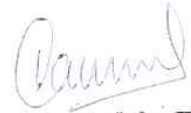
Attachments:
  List of participants
  Any another proof
  ① list of topics.
  ② Attendence mastced in Attendence sheet.

Signature of the Faculty

Number of Participants: 24

List of the Participants

Sr. No	Name of the Student
1	Shruti salunkhe
2	Aishwarya Palange
3	Chinmay Deshpande
4	Hrishikesh Godbole
5	Siddhi Sarade
6	Pranali Phadtare
7	Prajakta Shinde
8	Apurva Devi
9	Kaveri Bhosale
10	Mihtali Kshirsagar
11	Abhishek Khatavkar
12	Rohit Bhilare
13	Amruta Langade
14	Altamesh Mulani
15	Suryadeep Jaykar
16	Sejal Gujar
17	Pragati Ingawale
18	Anjali Gengaje
19	Anjali Pisal
20	Pradnya Raut
21	Shrushti Katkar
22	Sonali Tarase
23	Harshada Taralkar
24	Divya Wadhwani

Signature of the Faculty

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Department of CIVIL Engineering

Participative Learning Activity

Academic Year : 2016-2017

Class : B. E. Civil Sem. 8

Course with Code: DESIGN OF CONCRETE STRUCTURES II (CE 417)

Objectives: To make the students to participate in the process of learning.

Methodology: For this purpose, a set of multiple choice questions were posed before the students and they were made to answer primarily and hence they were made to give justifications to the answer so that the concepts became more clear.

Participants: Roll Nos.   (a) 05,10,17,19,20

(b) 23,30,34,36,39

(c) 41,45,54,58,60

Outcomes: Since they were made to participate in answering and hence learning, the process was harmonious and challenging.

KARMAVEER BHAURAO PATIL COLLEGE OF ENGG., SATARA.

Name Of The Department:- CIVIL ENGG.

Name Of The Faculty:-

Subject:-

Year: 2016-17 Sem 1

Class:- S.E. CIVIL

Batch:-

Roll No	Name of The Students	No.															
		Date															
1.	Awate Vaibhav Hiralal																
2.	Bhosale Pranav Mahendra																
3.	Biradar Mahesh Shivraj																
4.	Chavan Sushant Suresh																
5.	Ms Chikane Pooja Ramesh																
6.	Deshpande Aditya Ashutosh																
7.	Ms. Devkar Supriya Sanjay																
8.	Ms. Dhane Mrunal Dadasaheb																
9.	Ms. Dhane Pooja Dilip																
10.	Dhumal Akshay Anil																
11.	Dhumal Vivek Pandharinath																
12.	Duduskar Sandesh Shivaji																
13.	Gaikwad Rohan Ashok																
14.	Ghamare Akshay Prabhakar																
15.	Ms. Gurav Namrata Rajendra																
16.	Ms. Itraj Shivani Santosh																
17.	Jadhav Rishikesh Krishnath																
18.	Jagdale Rushikesh Machhindra																
19.	Kadam Raghavendra Uttam																
20.	Kanase Amit Mohan																
21.	Kanase Pritam Dhananjay																
22.	Karande Shubham Pratap																

1

All the students are hereby informed that if their attendance for theory periods is less than 75% then as per Shivaji University rules they will be detained.

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118. In a doubly reinforced rectangular beam, the allowable stress in compression steel is

(a) equal to the permissible stress in tension in steel

(b) more than the permissible stress in tension in steel

(c) less than the permissible stress in tension in steel

(d) not related to the permissible concrete compression stress.

119. The side face reinforcement, if required, in a T-beam will be

(a) 0.1% of the web area

(b) 0.15% of the web area

(c) 0.2% to 0.3% of the web area depending upon the breadth of the web

(d) half the longitudinal reinforcement.

120. In working stress design of under reinforced RC sections

(a) The stress in steel in tension will reach its maximum permissible value first.

(b) The moment of resistance will be less than that of the balanced section.

(c) both (a) and (b)

(d) none of these

121. Which one of the following sections of equal cross-sectional area can resist the torsional moment of RCC beam section more efficiently when working stress design is being adopted?

(a) An unsymmetrical I-section

(b) A box section

(c) A solid rectangular section

(d) A symmetrical I-section

122. Loss of stress with time at constant strain in steel is called

(a) relaxation   (b) creep

(c) shrinkage   (d) ductility

123. Deep beams are designed for

(a) shear force only

(b) bending moment only

(c) both shear force and bending moment

(d) bearing

124. In a check for development length (L_d), L_d shall not exceed $M_1 / V + L_0$ where M_1 is moment of resistance of the section after bar curtailment, V is maximum shear in the region of M_1 and L_0 at discontinuous end is

(a) equal to 12 ϕ (ϕ is diameter of bars) or effective depth 'd' whichever is greater

(b) actual anchorage length provided beyond centre of support

(c) straight length of bar beyond centre of support plus the hook or bend allowance if provided

(d) $L_d/3$

125. In the limit state design of concrete structures, strain distribution is assumed to be

(a) Linear

(b) non-linear

(c) parabolic

(d) parabolic and rectangular

126. M_{ult} of a singly reinforced balanced RC rectangular beam section is, when Fe 415 steel

(a) $0.115 f_{ck} bd^2$ (b) $0.138 f_{ck} bd^2$

(c) $0.185 f_{ck} bd^2$ (d) $0.225 f_{ck} bd^2$

127. At limit state of collapse in shear, in case of web shear cracks, it is assumed that concrete cracks when maximum principal tensile stress exceeds a value of f_t equal to

(a) $0.24 \sqrt{f_{ck}}$ (b) $0.20 \sqrt{f_{ck}}$

(c) $0.16 \sqrt{f_{ck}}$ (d) $0.30 \sqrt{f_{ck}}$

128. The loads to be taken corresponding to limit states of strength, deflection and crack width are respectively

(a) working load, working load and working load

(b) ultimate load, working load and ultimate load

(c) ultimate load, ultimate load and working load

(d) ultimate load, working load and working load

129. A reinforced concrete beam is designed for the limit states of collapse in flexure and shear. Which of the following limit states of serviceability have to be checked?

(a) deflection

(b) cracking

(c) both (a) and (b)

(b) none of these

130. Bending moment at the edges of a square vertical bunker due to a lateral pressure 'p' per unit area is

(a) $pl^2/12$

(b) $pl^2/10$

(c) $pl^2/16$

(d) $pl^2/11$

131. In concrete bridge design, the impact factor

(a) can be ignored for a pedestrian bridge

(b) can be ignored for dead load when the bridge is of 8 lane width

(c) is same for both dead and live load

(d) is same for IRC class A and IRC class AA (wheeled) loadings when the span is large

132. For Courbon's reaction coefficient to be valid

(a) there should be at least five transverse beams

(b) moment of inertia of every longitudinal beam must be the same

(c) span/width ratio should be between four and eight

(d) depth of transverse beams and of longitudinal beams must be the same.

133. For an over-reinforced (singly reinforced) rectangular RC section

(a) lever arm will be less than that for a balanced section

(b) maximum stress developed by concrete would equal allowable stress in concrete

(c) both (a) and (b)

(d) none of these

134. Effective depth of a singly reinforced rectangular beam is 30 cm. The section is over reinforced and the neutral axis is 12 cm below the top. If maximum stress attained by concrete is 50 kg/cm^2 and modular ratio is 18, then stress developed in steel would be

(a) 1800 kg/cm^2 (b) 1600 kg/cm^2

(c) 1350 kg/cm^2 (d) 1300 kg/cm^2

135. Percentage of tensile steel required to produce a balanced reinforced concrete section

(a) reduces as the yield strength of steel increases.

(b) remains unchanged irrespective of the yield strength of steel.

(c) is same for a given quality of steel irrespective of whether working stress method is followed or ultimate load method is used.

(d) is only a function of the modulus of elasticity of steel.

136. Marcus correction is introduced as simple correction to

(a) reactions at support of a continuous slab obtained by Westerguard method to allow for corner restraint of slab.

(b) sagging moments of a slab continuous over supports to allow for assistance given by torsion.

(c) moment obtained by Rankine Grashoff method to allow for corner restraint at corners and for assistance given by torsion.

(d) be applied to the steel area to counteract the negative bending moment at support to take care of stress concentration.

137. Radial moment at the boundary of a simply supported circular slab of radius R, subjected to a uniformly distributed load of w will be

(a) wR^2/8   (b) wR^2/12

(c) 3 wR^2/16   (d) zero

138. Hoop stress in a dome subjected to uniformly distributed load is

(a) always compressive

(b) tensile at sections whose radius vectors are at angles less than 51°51' with the vertical.

(c) tensile at sections whose radius vectors are at angles greater than 51°51' with the vertical.

(d) always tensile.

139. Concordant profile represents, for a certain set of external loads to some scale,

(a) bending moment diagram

(b) Williot-Mohr diagram

(c) shear force diagram

(d) influence line diagram

140. For a given grade of steel, limiting reinforcement index for a singly reinforced beam is proportional to

(a) f_{ck} (b) f_y

(c) f_y/f_{ck} (d) f_{ck}/f_y

141. Minimum clear cover (in mm) to the main steel bars in slab, beam, column and footing respectively are

(a) 10, 15, 20, 25   (b) 15, 25, 40, 75

(c) 20, 25, 30, 40   (d) 20, 35, 40, 75

142. Main reinforcement of a RC slab consists of 10 mm bars at 10 cm spacing. If it is desired to replace 10 mm bars by 12 mm bars, then spacing of 12 mm bars should be

(a) 12 cm   (b) 14 cm

(c) 14.40 cm   (d) 16 cm

143. Which one of the following statements is correct?

(a) Maximum longitudinal reinforcement in an axially loaded short column is 6% of gross sectional area

(b) Columns with circular section are provided transverse reinforcement of helical type only

(c) Spacing of lateral ties can not be more than 16 times the diameter of tie bar

(d) Longitudinal reinforcement bar need not be in contact with lateral ties

144. Torsion resisting capacity of a given RC section

(a) decreases with decrease in stirrup spacing.

(b) decreases with increase in longitudinal bars.

(c) does not depend upon stirrup and longitudinal steels.

(d) increases with the increase in stirrup and longitudinal steels.

Rayat Shikshan Sanstha's
Karmaveer Bhaurao Patil College of Engineering, Satara
Computer Science and Engineering Department
AY 2016-17
Computer Algorithm

Participative Learning Activity

Sr. NO.	Topic	Assigned
1.	Algorithm Specification,	1, 2, 3, 4, 5
2.	Asympotic Notation	6, 7, 8, 9, 10
3.	Divide and Conquer-Method overview	10-12, 13, 14
4.	Binary Search.	15 - 20
5.	Finding Maximum and Minimum Algorithm	21 - 25
6.	Merge Sort and analysis of Merge Sort	26 - 30
7.	Quick Sort and analysis of Quick Sort	31 - 34
8.	Greedy -Method overview, Knapsack Problem	35 - 38
9.	Job sequencing with Deadline, Spanning Tree overview.	39 - 42
10.	Prims Algorithm	43 - 48
11.	Kruskal Algorithm.	49 - 52
12.	Optimal merge pattern	53 - 58
13.	Single source Shortest path.	59 - 62
14.	Dynamic Programming Overview Multistage Graph.	63 - 68
15.	All par shortest path problem	69 - 73
16.	Optimal binary search	73 - 74
17.	0/1 knapsack problem	75 - 78
18.	Reliability design problem	· ———
19.	Travelling Sales Person problem	———

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Participative / Participatory Learning Approach (PLA)

Program: Electronics Engineering Class: T·E (electronics) Course: computer Architecture & operating system

Sr. No.	Details of the Activity	Unit and topic/content for which activity is planned	Name/ Roll Numbers of the students involved	Objective	Outcome	Remark
①	Design of GCD processor by classical method	UNIT-II GCD processor	61 to 70 101 to 110	To design GCD processor by classical method.	able to design of GCD processor by classical method	done successfully
②	Design of GCD processor by one hot method	UNIT II GCD processor.	71 to 80 111 to 120	To design GCD processor by one hot method	able to design GCD processor by one hot method	done successfully
③	comparison of CPU scheduling Algorithm	UNIT IV FCFS, SJF, RR priority.	81 to 85 – FCFS 86 to 90 SJF 91 to 95 – RR 96 to 105 priority	To compare types of CPU scheduling Algorithm	able to compare types of CPU scheduling Algorithm	Done successful
④	explain os services and components	UNIT-III OS services & components.	123, 124, 125,127 133, 135, 136 137, 139, 140	To explain OS services and components	able to explain os services & components	done successfully

Faculty Sign: _[signature]_

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Rayat Shikshan Sans

Karmaveer Bhaurao Patil College of Engineering, Satara

Participative / Participatory Learning Approach (PLA)

2016-17 (I)

Program:Electronics Engg   Class: TE(B)   Course: Electromagnetic Engineering

Sr. No.	Details of the Activity	Unit and topic/content for which activity is planned	Name/ Roll Numbers of the students involved	Objective	Outcome	Remark
1	Group Discussion	Unit 1:Vector Algebra Basics of Scalars and Vectors	51,52,53,55,57,59,61,62, 63,66,67	Differentiate Scalars and vectors	Able to classify scalars and vectors	Completed
2	Group Discussion	Unit 1:Vector Algebra Different types of coordinate systems	69,70,71,72,7374,75,76 77,78,79,80,81,82,83	Different types of coordinate systems	Able to classify Different types of coordinate systems	Completed
2	Collaborative learning	Unit 1:Vector Algebra Basics of Scalars and Vectors	84,85,86,87,88,89,91 ,92,93,94,96,97,99, 100,101,102,103,104,105 ,106	Solve different cordinate system transformation	Able to solve different coordinate transformation	Completed

Faculty Sign: N.D.Bhands

Karmaveer Bhaurao Patil College of Engineering, Satara

Participative / Participatory Learning Approach (PLA)

Program:Electronics Engg   Class: TE(A)   Course: Electromagnetic Engineering

A·Year 2017-18 Sem :1

Sr. No.	Details of the Activity	Unit and topic/content for which activity is planned	Name/ Roll Numbers of the students involved	Objective	Outcome	Remark
1	Group Discussion	Unit 1:Vector Algebra Basics of Scalars and Vectors	3,6,9,10,11,12,13,14,16	Differentiate Scalars and vectors	Able to classify scalars and vectors	Completed
2	Group Discussion	Unit 1:Vector Algebra Different types of coordinate systems	18,19,21,22,23,25,26,27	Different types of coordinate systems	Able to classify Different types of coordinate systems	Completed
2	Collaborative learning	Unit 1:Vector Algebra Basics of Scalars and Vectors	18,19,21,22,23,25,26,27 28-49	Solve different cordinate system transformation	Able to solve different coordinate transformation	Completed

Faculty Sign: N·Deshands

*Ethnic group: An ethnic group, or an ethnicity, is a category of people who identify with language, society, culture or nation. Ethn   usually an inherited status based on the socie   ther based on similarities such as common ancestry, ich one lives.

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Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Jan to April 2017   16 - 17 - II

Participative / Participatory Learning Approach (PLA)

Program: Electronics Engineering Class: T.E. Electronics   Course: Electronic System Design.

Sr. No.	Details of the Activity	Unit and topic/content for which activity is planned	Name/ Roll Numbers of the students involved	Objective	Outcome	Remark
1	Designing voltage to Current converter	Analog Hardware Design Unit II	Batchwise activity B1, B2, B3	To design voltage to current converter & Test for given specs.	Students designed and Tested V to I converter	Effect of variation in components values is noted.
2	Design of Current to voltage Converter	— // —	— // —	To design current to voltage converter & Test	designed and Tested I to V converter	— // —
3	Interface of Seven Segment display (static) to microcontroller	Digital Hardware Design.	Batch B2	To find display codes and use of seven seg Display	students are able to find display code according to connections.	written program & simulated using Proteus.
4	— // — dynamic 2 digit display	— // —	Batch B1, Batch B3	To find display codes and sequence of dynamic display	students have practiced display sequence & timing	written program. noted effect of delay on display
5	design of SMPS using LM3524 Polarity inverter Boost & Buck	Design of SMPS.	Batch B1 B2 B3	design of Power supplies of various specification	students are able to design Power Supply of given specification	.

Faculty Sign:

Karmaveer Bhaurao Patil College of Engineering, Satara

2016-17

sem II

Participative / Participatory Learning Approach (PLA)

Program: Electronics   Class: B.E.   Course: Elective II (HPCN)

Details of the Activity	Unit and topic/content for which activity is planned	Name/ Roll Numbers of the students involved	Objective	Outcome	Remark
1) Explaining the network topologies (star, mesh, bus etc)	Unit I Packet switched Networks	17, 47, 66, 69, 103	To describe & compare topologies	Students will be able to differentiate diff. types of topologies.	
2) Understanding & explaining ATM adaptation layers	Unit III ATM Adaptation Layers of ATM	01, 19, 57, 76, 78	To understand ATM adaptation Layers	students will be able to explain ATM adaptation layers.	
3) Explaining Frame relay protocols	Unit IV Frame relay Frame relay Protocols	50, 04, 45, 105, 117	To describe Frame relay Protocols	students will be able to describe frame relay Protocols	
4) Describing overlay models CLIP, NHRP, MPOA	Unit VI Advanced network architecture	43, 01, 68, 77, 53	To describe & compare diff. overlay models	students will be able to describe & differentiate diff. overlay models.	
5) Describing Peer model MPLS & RSVP (Reservation Protocol)	Unit VI Advanced network architecture	73, 100, 17, 124, 35	To understand Peer model MPLS & RSVP. (Integrated series)	students will be able to explain Peer model MPLS & RSVP. (Reservation Protocol)	

Faculty Sign: *Kulmek*

Karmaveer Bhaurao Patil College of Engineering, Satara

Participative/ Participatory Learning Approach (PLA) 2016-17

Program:- Electronics Engineering　　　**Class:- B.E.(I)**　　　**Course:- Image Processing**　　　**Div:- B**

Sr. No.	Details Of Activity	Unit & topic / Content For which activity planned	Name/Roll No. of students involved	Objective	Outcome	Remark
1.	Group Discussion	Fundamental steps in Image Processing	65,66,67,68,69, 70,71,72,73,74	To know about Different Applications of image processing and fundamental steps	Student able to recognize the use of image processing algorithms in various applicatons	Done Successfully
2.	Solve Problem and implement in MATLAB	Histogram Equalization	75,76,78,79,80, 81,82,83,84	To solve & implement problem in MATLAB	Student able to solve & implement problem in MATLAB	Done
3	Solve Questions	1. Different Image enhancement techniques	85,86,87,88,89, 90,91,92,93	To find out various methods used in contrast enhancement	Student able to find out various methods used in contrast enhancement	Done Successfully
4	Solve Questions	2. Different Image segmentation methods	99,100,101,102, 103,104,105,10 6,107,108	To find out various methods used in image segmentation	Student able to find out various methods used in image segmentation	Done Successfully

Faculty Sign

Matte S.C

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Karmaveer Bhaurao Patil College of Engineering, Satara

2016-17
Sem I

Participative / Participatory Learning Approach (PLA)

Program: Electronics   Class: B.E.   Course: CN

Details of the Activity	Unit and topic/content for which activity is planned	Name/ Roll Numbers of the students involved	Objective	Outcome	Remark
1) Discussion about sliding window Protocols & Random acces protocols	Unit II Data Link Layers Protocols of DLL	67,99,71,77,103,	To understand Protocols of Data Link Layer	Students will be able to describe & differentiate sliding window Protocols	
2) Explaining Routing algorithms & routing protocols	Unit III Network Layer Routing algorithms & routing protocols	66, 76, 78, 104, 99	To describe routing algo.n & routing protocols of network layer.	Students will be able to describe & compare routing algo.n	
3) Describing Transport Layer Services, UDP TCP & SCTP	Unit IV Transport Layer Protocols of Transport Layer	84,100, 117, 124, 71	To describe Transport Layer protocols	Students will be able to explain & compare Transports Layer protocols function	
4) Describing need of n/w security with it's adv. & disadv. key algorithms & Digital Sgn.	Unit VI Basics of network security & n/w adm.n	98, 124, 76, 118, 85	To explain private key & public key algo.n	Students will be able to explain key algo.n & digital signature.	

Faculty Sign: A.Neelmeti

Karmaveer Bhaurao Patil College of Eng....ering, Satara

Participative / Participatory Learning Approach (PLA)

(17-18)

Mrs. mane s.v.

Program: Electronics   Class: SE Electronics   Course: ECAD-II [sem. II]

Details of the Activity	Unit and topic/content for which activity is planned	Name/ Roll Numbers of the students involved	Objective	Outcome	Remark
1) Study & classification of feedback Amp. Advantages of Feedback	Unit-I Feedback Amplifier. Introduction of Types of Feedback Amp	1, 2, 3, 4, 5.	To understand Types of Feedback.	Understood Types of Feedback	
2) Difference between RC Coupled, Direct-Coupled & Transformer Coupled Amplifiers	Unit II Multistage Amplifier Types of Coupling	51, 52, 53, 56, 80, 88.	To differentiate Types of coupling	Students will be able to compare Types of Coupling	
3) Design of class AB pushpull Power Amp	Unit III Power Amplifier Design of Power Amplifier.	59, 72, 85, 86, 88	To design Power Amplifier	Students will be able to Design Power Amplifier	
4) To Draw ckt. dia. & Design RC phase shift & Wein bridge oscillators	Unit IV oscillators Design of RC oscillators	11, 12, 13, 14, 15, 16.	To design RC oscillators	Students will be able to Design RC oscillators	
5) To solve Design problem from Que. paper on Astable multivibrator	Unit V Multivibrators Design of Astable multivibrator	57, 58, 59, 60, 64.	To design Astable. multivibrator	Students will be able to design astable multivibrator	

Faculty Sign: smane

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Karmaveer Bhaurao Patil College of Engineering, Satara

Participative / Participatory Learning Approach (PLA)

Jan to April - 2018   [17-18- #]

Program: Electronics Engg. Class: T.E. Electronics. Course: Electronic System Design.

Details of the Activity	Unit and topic/content for which activity is planned	Name/ Roll Numbers of the students involved	Objective	Outcome	Remark
Design of V-I converter	Unit-II Analog H/w design	Batch A₁ A₂ A₃ & B₁ B₂ B₃.	To design V-I converters of various ranges of V to 4to20mA	ability to design V-I converters for signal transmission	different design specifications were feed in each group/batch of students.
Design of I to V Converters.	Unit II Analog H/w design.	—''—	To design I→V Converter – 4-20 mA to various o/p voltage	ability to design I→V Converter to receive Signal.	—''—
Design of Dynamic LED display	Unit III Digital H/w design.	Batch A₁, A₂, A₃.	To design 2 digit 3 digit 4 digit dynamic LED 7 seg Display	ability to design dynamic 7 seg Display	
Design of LCD display module Interface	Unit III Digital H/w design	Batches B₁, B₂ B₃	To design 4 bit & 8 Bit LCD module interface with microcontroller	Ability to design LCD module Interface	Batches are asked to design 4 bit & 8 Bit Interface.
Design of SMPS using LM3524	Unit IV Design of SMPS.	Batches A₁ A₂ A₃ & B₁ B₂ B₃	To design SMPS Power supplies of variety of Buck/Boost invert supply.	Ability to design SMPS to be used for equipment	Batches were given different combination & specifications.

Faculty Sign:

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Participative / Participatory Learning Approach (PLA) , 2017-18

Program: Electronics Engg , Class: B.E.--I   Course: Information Theory and coding Techniques

Sr. No.	Details of the Activity	Unit and topic/content for which activity is planned	Name/ Roll Numbers of the students involved	Objective	Outcome	Remark
1	Relation between Joint and conditional entropies	Unit - I Conditional entropies	2, 6, 7, 15, 16	Study relation between entropies	Relate entropies	
2	Channel capacity redundancy and efficiency of different channel	Unit - I Channel capacity & Redundancy	22, 23, 24, 29, 30	Study Learn Channel capacity efficiency of memoryless channels	Describe & illustrate Channel capacity & efficiency	
3	Error detection and correction Technique of (cryk) block codes	Unit - III Linear block codes Error detection & correction technique	37, 38, 40, 41, 43	Study error detection & correction	Describe error correction and detection technique.	
4	minimal & generator Polynomial of BCH codes	Unit - Cyclic(BCH) codes minimal & gen. poly. of BCH codes	59, 60, 61, 63, 64	Study the minimal & gen. Polynomial of BCH codes	Describe minimal & generates poly. of BCH codes.	
5	Frean domain approach of Convolutional codes	Unit - VI Convolutional codes frean domain approach.	93, 94, 100, 107, 112	Study of Frean Domain approach.	Describe & calculate codes in frean domain approach.	

Faculty Sign:

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Karmaveer Bhaurao Patil College of Engineering, Satara

Participative / Participatory Learning Approach (PLA)   Period – June – Sept 2017

[18-18] – I

Program: Electronics Engg   Class: B.E. Electronics.   Course: Embedded System Design.

Details of the Activity	Unit and topic/content for which activity is planned	Name/ Roll Numbers of the students involved	Objective	Outcome	Remark
Installation of ARM microcontroller IDE Kiel – U vision 4.	Unit II Introduction to ARM processor	Batch B1, Batch A3. B3	To understand to usage of s/w tools in development of ARM Based systems.	Students were able to install and use IDE tool for development.	
Programming of ARM LPC 2148, to understand the effects of Instruction.	Unit II and IV Intro to ARM processor and microcontroller LPC2148	Batches B1, B2, B3	To understand usage of tool (IDE) to test programs before downloading to chip.	Students were able to debug programs and see stepwise operation.	
Using LPC2148 Chip Resources, I/O ports, ADC, etc.	Unit V LPC2148 on chip resources.	B1, B2, B3	Programming I/o ports and test the results on debugger & Test Results after programming	Gained confidance about output from chip and able to understand chip operation.	

Faculty Sign:

Rayat Shikshan Sanstha's
Karmaveer Bhaurao Patil College of Engineering and Polytechnic, Satara

Participative Learning Activity

Academic Year: 13-14

Semester:- I / II Class 13-E

Course name: Mechanical System Design.

Name of the Activity To observe different types of clutch & Brakes in two & four wheeler.

Objective:
① Student should able to learn types of Brakes & clutches used in two & four wheeler. [Construction & working]

Outcome: 1. Student can able to recognize types of brakes in two-four wheeler.
2. Student can able to recognize types of clutches in two-four wheeler.

Activity Conduction Details:
① A group of student is made & they had given problem of working and construction details of clutch & Brake.
②. Student work in holidays in workshop and observe problems.
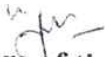
mber of Participants: -08 - group of 04 student each.

Attachments:
List of participants
Any another proof

① Gaonkar Jushal S.
② Jadhav Yuvraj M.
③ Sulake Chetan V.
④ Bhobare Ajay P.
⑤ Shinde Vikram P.
⑥ Mali Rahul T.
⑦ Mali Abhishek.

Signature of the Faculty

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Participative Learning

Academic Year: 2015-16 Semester:- I / II Class SE [Mechanical]

Course name: Applied Thermodynamics

Name of the Activity: Question Answer session in every theory & practical session, Asking open minded.

Objective: i) To check the level of understanding of students & get their doubts cleared in that respective session itself.

Outcome: i) Student will understand the future scope of concepts taught in that respective lecture / practical itself.
ii) Student will understand those concepts in depth.

Activity Conduction Details:

This activity was conducted at the end of 15 minutes of each lecture & practical & whatever time was consumed for this activity was compensated by extra remedial lecture.

Number of Participants: Every student in a group of one.

Attachments:

List of participants

Any another proof

Miss. S.Y. Ghadage.
Signature of the Faculty

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Rayat Shikshan Sanstha's
Karmaveer Bhaurao Patil College of Engineering, Satara
Participative Learning Activity
Name of the Program- Mechanical Engg.
Name of the Course- **Machine Tools & Processes (ME214)** AY-2015-16 Sem-IV
Course Coordinator- Mr. Dayanand Ghatge Class- SE Mech.

Sr. No.	Details of the Activity	Unit & topic for which activity is planned	Objective	Outcome	Remark
1	04/01/2016 Group Discussion	Group discussion on Importance of Casting Process	To Study the importance of Casting Process	Students Learned scope of Casting Process	Completed
2	17/02/2016 Questions & Answers	Questions & Answers on Need of Plastic product	To study the daily life applications of plastic	Students learned daily life applications of plastic product	Completed
3	14/03/2016 Group Discussion	Group discussion on following topics 1.Metal cutting processes- Applications 2. CNC - Advantages & disadvantages	To Study the applications of metal cutting Process & CNC Machining	Students Learned applications of metal cutting Process & CNC Machining	Completed

Course coordinator

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Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Participative Learning

Academic Year: 2015-16 Semester:- I / II Class T.E. Mechanical

Course name: Control Engineering (Mech Engg) (T.E)

Name of the Activity: Group Discussion on Control Engineering Application in industry.

Objective: To study different application of Control system (engineering) in industry.

Outcome: Student will able to understand different application of control Engineering. In industry.

Activity Conduction Details: Topics are given to the students in the class & session of 2 hrs was conducted.

Number of Participants: 20

Attachments:

List of participants

Any another proof

Signature of the Faculty

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Karmaveer Bhaurao Patil College of Engineering, Satara

Participative Learning

Academic Year: 2017-18 Semester:- I / II Class T.E.

Course name: Machine Design I

Name of the Activity Brain storming session for Design of Bicycle & Bike.

Objective: 1) Students will able to understood basic design procedure
2) Students will able to study general design consideration

Outcome: 1) Student can study design procedure for bike & bicycle design
2) Student can identify different materials used for designing bike

Activity Conduction Details:
1) Select model of bike for each group
2) Follow the steps of design procedure
3) Able to do stress calculations & mtrl selection
4) Group discussion on each model.

Number of Participants: 4 in each group.

Attachments:

List of participants

Any another proof

Roll No — 1, 11, 12, 18
Roll No - 21, 24, 32, 34
Roll No - 42, 44, 46, 48
Roll No - 60, 58, 64, 62.

Signature of the Faculty

faculty sign.

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Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Participative Learning

Academic Year: 2015-16 Semester:- I / II Class ~~2nd TE~~. T.E. Mech

Course name: Industrial Management & Operation Research.

Name of the Activity Formation of Virtual organisation

Objective: To understand & implement functions of management.

Outcome: Improved understanding of functions of management Students implemented functions of management & developed virtual organisation

Activity Conduction Details:

Students formed virtual organisation in a group of five/six. Students studied principles of management functions Applying principles students developed virtual org. Strateies regarding marketing, material functions were developed

Number of Participants: Entire class in a group of five/six Students in each group

Attachments:

List of participants Entire class

Any another proof

HAD
Signature of the Faculty

Karmaveer Bhaurao Patil College of Engineering, Satara

Participative Learning

Academic Year: 2016-17 Semester:- I /II Class __SE__

Course name: __Engineering metallurgy__

Name of the Activity __Preparation of specimen & its mounting__

Objective: __Get information to prepare specimen__
__its mounting.__
__Information about the etching process.__
__Collect information about microstructure.__

Outcome: __Students are able to prepare & mount the__
__material samples.__
__Students are able to etching & observe the__
__microstructure__

Activity Conduction Details:
__Cutting of material samples, polishing of material__
__using polish miles. Mounting of specimen &__
__drying dye.__
__Observation of specimen microstructure__
__using CCTV.__

Number of Participants: __15__

Attachments:

   List of participants

   Any another proof

[signature]

Signature of the Faculty

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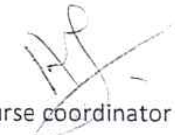
Rayat Shikshan Sanstha's
Karmaveer Bhaurao Patil College of Engineering, Satara
Participative Learning Activity
Name of the Program- Mechanical Engg.
Name of the Course- Machine Tools & Processes (ME214)   AY-2016-17   Sem-IV
Course Coordinator- Mr. Dayanand Ghatge   Class- SE Mech.

Sr. No.	Details of the Activity	Unit & topic for which activity is planned	Objective	Outcome	Remark
1	03/01/2017 Group Discussion	Group discussion on following topic Importance of Manufacturing Processes	To Study the importance of manufacturing processes	Students Learned scope of manufacturing processes	Completed
2	13/02/2017 Questions & Answers	Questions & Answers on Shaping of Plastics	To study the daily life applications of shaping of plastic processes	Students learned daily life applications of plastic processes	Completed
3	15/03/2017 Group Discussion	Group discussion on following topics 1.Need of Machining processes 2. CNC - Advantages & disadvantages	To Study the advantages & disadvantages of Machining Process & CNC Machining	Students Learned advantages & disadvantages of Machining Process & CNC Machining	Completed

Course coordinator

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Course name: Machine Design-I (ME304)

Course Teacher: Prof. Miss Pawar P. P.

Sr No.	Details of Activity	Units and Topic for which activity planned	Objectives	Outcome	Remark
1	Design & Drawing Of Knuckle joint by using actual dimensions	Unit 2 : Design of Joints and Machine Elements	To Draw details of assembly by disassembling actual component	Students will be able to draw Components of Knuckle joint.	Completed
2	Design & Drawing of flexible bushed pin type flanged coupling.	Unit 3: Design of Shaft, Keys, and Couplings	To Draw details of assembly by disassembling actual component	Students will be able to draw assembly of flexible bushed pin type flanged coupling.	Completed

Signature of the Faculty

H.O.D.
Mechanical Engineering Department
K.B.P College of Engineering, Satara

ANSWER

1) **B**

2) **C**

3) **B**

4) **C**

5) **A**

6) **A**

7) **B**

8) **A**

9) **B**

10) **B**

11) **C**

12) **C**

13) **B**

14) **B**

15) **D**

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering Satara
Mechanical Engineering Department
Participative Learning Activity
Academic Year: 2016-17 Semester: - VII Class: - B.E. Mechanical

Course name: Energy and Power Engineering (ME 409)

Course Teacher: Prof. Miss Shivdas R.K

Sr No.	Details of Activity	Units and Topic for which activity planned	Objectives	Outcome	Remark
1	9/3/17 Group Discussion	Unit 6 :Group discussion on Journal Paper of Energy Audit Case studies	To study How to conduct Energy Audit of Organisation	Students learned In detail steps of energy audit conduction	Completed

Journal Papers:

1. Matteo Dongellini , Cosimo Marinosci, Gian Luca Morini1 "Energy audit of an industrial site: a case study"Energy Procedia 45 (2014) 424 – 433
2. Lorenzo Belussia, Ludovico Danzaa."Integrated smart system for energy audit: methodology and application ",Energy Procedia 140 (2017) 231–23

Signature of the Faculty

HOD
H.O.D.
Mechanical Engineering Department
K.B.P College of Engineering, Satara

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Karmaveer Bhaurao Patil College of Engineering & Poly , Satara.

Academic Year: 2014-15   Semester-II

Name of course: Computer Networks   Class: SE   Course Code: CS144L02

Participative Learning

Name of the Activity:

Project Topic Presentations & discussion.

Objectives:

1) To motivate the students to actively participated in the group discussions.

2) To improve the presentation skills of the students by arranging the concepts in proper sequence

3) To enhance the practical knowledge of students by implementing the various project ideas

Outcomes :

1) The Participatory Learning Technique developed a more positive and favourable attitude among the students.
2) Students could demonstrate their project ideas more effectively.
3) Students could relate their concept with the ideas from other students in the group.
4) Students coordination and leadership qualities are increased

Activity Conduction Details:

Students were presenting the Presentations on project topic under project based learning by various groups. The concept of the project statements were explained and discussed among the different groups before implementation . Thus Participative learning was achieved by exchanging of ideas and brainstorming sessions among the students.

Number of Participants: Group of 4 or 5 members
-Separate list of students are attached

Signature of the Faculty

Academic Year: 2015-16   Semester-I

Name of course: Advanced Database Systems   Class: BE   Course Code:

Participative Learning

Name of the Activity:

Project Topic Presentations & discussion.

Objectives:

4) To motivate the students to actively participated in the group discussions.
5) To improve the presentation skills of the students by arranging the concepts in proper sequence
6) To enhance the practical knowledge of students by implementing the various project ideas

Outcomes :

5) The Participatory Learning Technique developed a more positive and favourable attitude among the students.
6) Students could demonstrate their project ideas more effectively.
7) Students could relate their concept with the ideas from other students in the group.
8) Students coordination and leadership qualities are increased

Activity Conduction Details:

Students were presenting the Presentations on project topic under project based learning by various groups. The concept of the project statements were explained and discussed among the different groups before implementation . Thus Participative learning was achieved by exchanging of ideas and brainstorming sessions among the students.

Number of Participants: Group of 4 or 5 members
-Separate list of students are attached

Signature of the Faculty

Karmaveer Bhaurao Patil College of Engineering, Satara

Academic Year: 2017-18 Semester-I

Name of the Program: Computer Science and Engineering   **Name of the Course:** Web Technology-I

Name of the course Coordinator: Prof. Rasal S. A.

Participative Learning Technique

Participatory approaches to learning are active approaches that encourage students to think for themselve Students actively contributed, rather than passively receiving information from outside experts, who may not hav local understanding of the issues. The approach encourage students to share information, learn from each other, an work together to solve common problems with the help of programming techniques.

Small applications were developed by students in team that will solve the problems. Different programmin technique were used for developing the applications like servlet management, database management applicatior using JSP, XML document handling, HTML web page creations.

Innovative Teaching-Learning Technique

Incorporate audio-visual materials were used sessions. Info graphics or other mind mapping and brai mapping tools were used so that they will help their imagination thrive and grow. These methods will not onl develop their ability to listen, but will also help them understand the concepts better.

Following activities are carried out for Innovative Learning technique for WEB TECHNOLOGY-I

Name of Activity:- General Class Structure with Bags, Boxes, and a Bin

This activity is designed to introduce and provide students with a **visual reference for the commo programming concept of a Class.**

Learning Objectives: After this activity, students should be able to:

  ⬜ Define, in their own words, a class
  ⬜ Define, in their own words, data members
  ⬜ Explain how each of the boxes represents one of the various methods/functions written for the class
  ⬜ Explain how the Class acts as a blueprint for a data type

Materials:

  ⬜ A large plastic bin (with lid)
  ⬜ Several small boxes or bins (various sizes) that can easily all fit inside the plastic bin at the same time
  ⬜ Paper bags from the "Understanding Variables and Arrays with Paper Bags"
  ⬜ Optional: Chalkboard, Whiteboard, Computer connected to an overhead projector, or Large paper flip-pa (used to show code as you do the activity)

Subject I/C:- Prof. Rasal S. A.

Prep:

☐ Decide on the Class name and functionality you wish to demonstrate. Write the corresponding programming code for that class

☐ Create a label for the large bin with the class name

☐ Locate or recreate variable bags from the "Understanding Variables and Arrays with Paper Bags" and crea labels to name the data members

☐ Make sure all components (bags, boxes) will easily fit within the plastic bin (at the same time) and you ca close the lid

☐ Create labels for the boxes/bins (i.e., the various methods/functions for the class)

Activity Instructions:

1. Begin by placing the large empty bin at the front of the classroom. Introduce the concept of a class to the students

2. Label the large empty bin the class you are going to create. Show the corresponding programming code to the students

3. Introduce the concept of data members. Using the variables bags, add data members to the class by the variable bags into the large bin. Show the corresponding programming code to the students

4. Add methods to the class by labeling a smaller box/bin and placing it into the large bin. Show the corresponding programming code to the students as you go along

5. Place the lid on the class. Discuss how the plastic bin keeps all the parts together and as a group. Discus the complete code (i.e., anything between the {} is inside the bin).

6. (Optional) Discuss how the class is like a blueprint and a data type. Demonstrate the code for creating al instance of a class with specific values. You can add values into the bags. Additionally, you can add value into bags and demonstrate passing the values to the methods/functions as arguments/parameters.

Name of Activity:- Basic Networking, Message Passing, and Security with Party Hats and Candy

This activity, is designed to teach students basic **networking concepts and terminology: message passin network, node, topology, packet**, white hats, black hats, gray hats,hacking, and network security. All students wi have the opportunity to play a node within the network and can be one of three things: white hat, black hat, ¨ hat. The activity can be done with almost any size group and generally works better with 5 th graders or older.

Learning Objectives: After this activity, students should be able to:

☐ Define, in their own words, a network

☐ Define, in their own words, a network packet

☐ Define, in their own words, a network topology

☐ Explain the difference between white hats, black hats, and gray hats

☐ Explain the importance/need of network security

☐ Explain the importance of network topology

Subject I/C:- Prof. Rasal S. A.

Materials:

- 5-15 White Hats, 1-5 Black Hats, and 1-5 Gray Hats
- Container that can be locked (or can have a chain placed around it)
- Locks (minimally 2) (and chain if needed)
- Small wrapped candy (Starburst, Mini-candy bars, Small boxes of Nerds)

Activity Instructions:

1. Start with 5 student volunteers. Provide each with a white hat. Line the students up in the front of the room in a "straight-line". Explain that as a group they are a network and each person is a node in the network

2. Ask the students if they have ever sent an email. (Most students have and are familiar with the concept) Briefly discuss message passing

3. Using an unlocked container, place a piece of candy in the box. Have the "network" pass the message to the last "node". Re-use the unlocked container (and a new piece of candy) to pass a message back to the sending "node" (in acknowledgment of message received)

4. Add a "node" to the network. Provide the student with a black hat and quietly give them directions that they are an evil node in the network and should "steal" the candy when the container is passed to them (and then continue to pass the container along). Place the student in the middle of the network

5. Re-do step #3, but the candy will be "stolen" twice. Have the students discuss and suggest possible ways to prevent the candy from being taken

6. Re-do step #3 but lock the container. Keep the key (hilarity will ensue). When the candy arrives on the far side, they cannot get into the box. Have the students discuss and suggest possible ways to solve the problem (i.e., private key encryption style). Try various student ideas for message passing

7. Add a gray hat to the network. Discuss the differences between the black and gray hats. Repeat message passing as you add people or change the network

8. Add additional white hats. Repeat message passing

9. Give everyone a hat (randomly) and have everyone stand in a giant circle. Try to arrange "nodes" so that there are long stretches of white hats. Pass messages. Discuss/have students observe how much longer it takes with the larger network

10. (Optional) Discuss possible ways to re-arrange the network to avoid black or gray hats. Have the student -arrange the network topology. Repeat message passing

Suggestions:

- If you do not want to use candy, then try stickers, smaller erasers, or other small party favor.
- The hats can be of any type (paper, plastic, felt, etc.) and they do not all have to be the same (as computer networks have all kinds of nodes on them)
- You should plan for as many hats as you want students to participate (and generally I have everyone participate) and (minimally) 2/3 of the hats should be white
- You can use any 3 colors of hats. If you do not choose to use white, black, and gray, then it would be best to label the hats with signs

Subject I/C:- Prof. Rasal S. A.

Materials:

- 5-15 White Hats, 1-5 Black Hats, and 1-5 Gray Hats
- Container that can be locked (or can have a chain placed around it)
- Locks (minimally 2) (and chain if needed)
- Small wrapped candy (Starburst, Mini-candy bars, Small boxes of Nerds)

Activity Instructions:

1. Start with 5 student volunteers. Provide each with a white hat. Line the students up in the front of the room in a "straight-line". Explain that as a group they are a network and each person is a node in the network

2. Ask the students if they have ever sent an email. (Most students have and are familiar with the concept) Briefly discuss message passing

3. Using an unlocked container, place a piece of candy in the box. Have the "network" pass the message to the last "node". Re-use the unlocked container (and a new piece of candy) to pass a message back to the sending "node" (in acknowledgment of message received)

4. Add a "node" to the network. Provide the student with a black hat and quietly give them direction they are an evil node in the network and should "steal" the candy when the container is passed to them then continue to pass the container along). Place the student in the middle of the network

5. Re-do step #3, but the candy will be "stolen" twice. Have the students discuss and suggest possible way to prevent the candy from being taken

6. Re-do step #3 but lock the container. Keep the key (hilarity will ensue). When the candy arrives on the fa side, they cannot get into the box. Have the students discuss and suggest possible ways to solve the problem (i.e., private key encryption style). Try various student ideas for message passing

7. Add a gray hat to the network. Discuss the differences between the black and gray hats. Repeat message passing as you add people or change the network

8. Add additional white hats. Repeat message passing

9. Give everyone a hat (randomly) and have everyone stand in a giant circle. Try to arrange "nodes" so that there are long stretches of white hats. Pass messages. Discuss/have students observe how much longer it takes with the larger network

10. (Optional) Discuss possible ways to re-arrange the network to avoid black or gray hats. Have the s᷈ ᷈ re-arrange the network topology. Repeat message passing

Suggestions:

- If you do not want to use candy, then try stickers, smaller erasers, or other small party favor.
- The hats can be of any type (paper, plastic, felt, etc.) and they do not all have to be the same (as computer networks have all kinds of nodes on them)
- You should plan for as many hats as you want students to participate (and generally I have everyone participate) and (minimally) 2/3 of the hats should be white
- You can use any 3 colors of hats. If you do not choose to use white, black, and gray, then it would be best label the hats with signs

Subject I/C:- Prof. Rasal S. A.

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Karmaveer Bhaurao Patil College of Engineering, Satara

Name of the Program: Computer Science and Engineering   **Name of the Course:** Automata Theory

Name of the course Coordinator: Prof. Patil M. V.

Participative Learning Technique

Participatory approaches to learning are active approaches that encourage students to think for themselves. Students actively contributed, rather than passively receiving information from outside experts, who may not have local understanding of the issues. The approach encourage students to share information, learn from each other, and work together to solve common problems with the help of IS concepts.

For Automata Theory, different applications had been given to student in group and they have prepared report on their topic.

Tools are like:-

1. String matching algorithm
2. Lexical Analyzer
3. Transducers
4. DFA based text filter in java

Students prepared report on their topics and discussed their applications, relevances among all students.

Innovative Learning Technique

Incorporate audio-visual materials were used sessions. Info graphics or other mind mapping and brain mapping tools were used so that they will help their imagination thrive and grow. These methods will not only develop their ability to listen, but will also help them understand the concepts better.

For Automata Theory, audio-video tools were used for Innovative Learning process. Some of the video tools were used:-

1. https://www.youtube.com/watch?v=eqCkkC9A0Q4&list=PLEbnTDJUr_IdM___FmDFBJBz0zCsOFxfK2
2. https://www.youtube.com/watch?v=-aIRqNnUvEg&list=PL85CF9F4A047C7BF7
3. https://www.youtube.com/watch?v=539Bk9fFOyo

ubject I/C:- Prof. Patil M. V.

List of the Participants

Sr. No	Name of the Student
1	Chinmay Deshpande
2	Abhishekh Kahtavkar
3	Altamesh Mulani
4	Animesh Salunkhe
5	Akshay Chorge
6	Abhilash Pujari
7	Kaveri Bhoslae
8	Harshada Taralkar
9	Mithali Kshirsagar
10	Pradnya Raut
11	Pragati Ingawale
12	Saurabh shelar
13	Pranali Phadtare
14	Prajakta Shinde
15	Rohit Bhilare
16	Pranav Dhumal
17	Satyajit Yadav

Linux

Karmaveer Bhaurao Patil College of Engineering, Satara
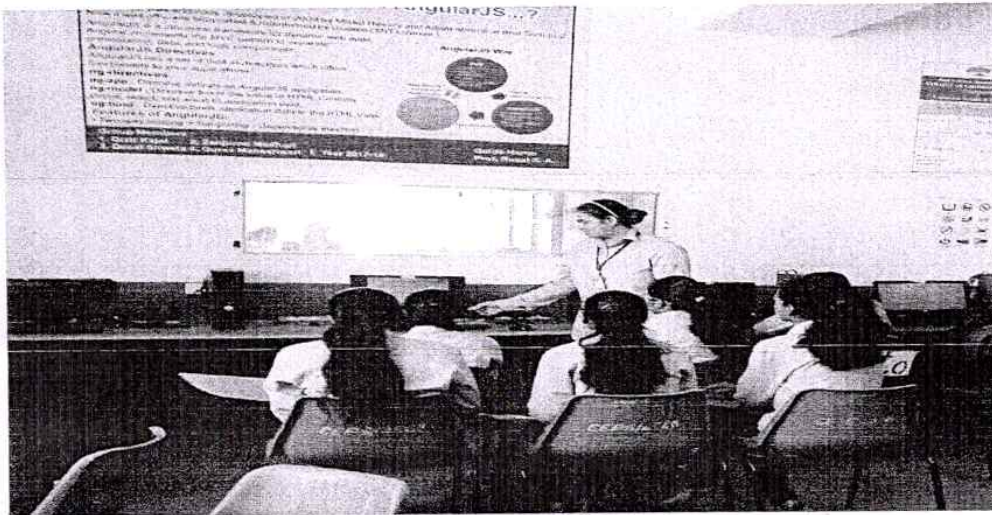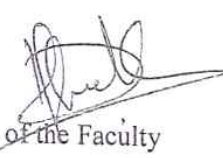
Computer Science and Engineering

Name of Course Coordinator __Mrs. Dipali Ghatge__ Academic Year __2017-18 II__

Class: __BE - CSE - II__ Course Name __Web - Tech-II CL168 LOS__

1) **Name of Students Participated:**
   List of present students is attached.
   A batch - 21/1/2018   as per attendance
   E - batch - 23/1/2018   sheet.
   B - batch - 18/1/2018.

2) **Types of Experiential Learning used** (Apprenticeships, Clinical experiences, Fellowships, Field work, Internships, Practicum's, Service-learning, Simulations and gaming/role-playing)
   Role Play -:
   Requirement gathering for web application development.

3) **Learning Process**
   Students were divided in groups and in each group half of the students played customer's role and half of the students played designer and development team. They interact to take the customer's requirement for web designing.

4) **Learning Objective**
   To make the students learn about how to capture customer's views & expectations. About web designing.

5) **learning resources and information**
   Group was assigned a topic and allowed to surf the internet.

6) **Outcome of Learning**
   Students will be able to understand how to get customer's requirements.

Sign. of the Faculty

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Rayat Shikshan Sanstha's
Karmaveer Bhaurao Patil College of Engineering and Polytechnic, Satara
Project Based Learning

Academic Year: 2013 – 14   Semester:- I / II   Course name: WRE – I

Sr. No	Project Title	Objectives	Outcomes	Roll numbers of the participants	Date of Completion	Remarks of Faculty
1]	Measurement of Infiltration	a] To know Various method of measurement of infiltration. b] To impart the basic knowledge of the subject. c] To understand the principles of the subject and topic. d] Ability to Solve the Problem.	a] Create the interest in the subject. about the subject. b] Increase the knowledge about the related topic. c] Solve the Problems Confidently.	03, 04, 07, 10, 15, 20, 28, 23	31/07/2013 to 01/10/2013	Checked
2]	Hydrology Hydrograph Problem			32, 33, 34, 38, 40, 41		Checked
3]	Crop water requirement Problem			49, 50, 51, 52, 58, 59, 62, 63		Checked

Signature of the Faculty

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Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering and Polytechnic, Satara

Project Based Learning

Academic Year: 2013−14   Semester:-I/II   Course name: WRE - II

Sr. No	Project Title	Objectives	Outcomes	Roll numbers of the participants	Date of Completion	Remarks of Faculty
1]	Components and their functions of Earthen dam	a] To know various components, functions & forces acting irrigation structure's	a] To create the interest in the subject b] Increase the knowledge about the related topic	01, 07, 10, 18 22, 23, 24	16/01/14 to 24/03/14	Checked
2]	Forces acting on gravity dam.	b] To impart the basic knowledge of the topics		28, 29, 32, 34, 36, 39, 47, 48		Checked
3]	Component parts & functions of Diversion Head work	c] To understand the principles of the topic.		51, 52, 55, 58 59, 60, 62, 63		Checked

Signature of the Faculty

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Rayat Shikshan Sanstha's
Karmaveer Bhaurao Patil College of Engineering and Polytechnic, Satara
Project Based Learning

Academic Year: 2013 - 14   Semester:- I/ II   Course name: Construction Practices

Sr. No	Project Title	Objectives	Outcomes	Roll numbers of the participants	Date of Completion	Remarks of Faculty
1]	Study of Bulldozers	a] To know the working of construction equipments	a] To create the interest in the subject	03,04,05, 06,07,11 12	17/01/2014 to 12/03/2014	Checked
		b] To know	b] Increase the knowledge			
2]	Study of Power shovel	various compo- nents parts of equipments	about the equipments	15,16,17,20, 21,23,24 28,		Checked
		c] To study the work				
3]	Study of Drag line	cycle of the equipments		32,34,37, 38,39,44 45,53,54 56,62,64,65		Checked

Signature of the Faculty

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Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering and Polytechnic, Satara

Project Based Learning

Class: BE Academic Year: 2014-15 Semesters: - I

Course coordinator: Patil Sharad

Course name: Finite Element Analysis

Sr. No	Project Title	Objectives	Outcomes	Roll numbers of the participants	Date of Completion	Remarks of Faculty
1.	Presentation on Principle of virtual work, Principle of Minimum Potential energy.	Principle of virtual work, Principle of Minimum Potential energy.	Discuss the Principle of virtual work, Principle of Minimum Potential energy. Sue of principie to derive the relations.	A batch	10th July 2014	Completed
2.	Assignments for solving differential equations	Methods for solving differential equations	Rayleigh-Ritz method, Galerkin method, Least square method, Collocation method, Sub-domain	B batch	18th August 2014	Completed
3.	Presentation Discritization of the problem	Discritization of the problem	Discuss Basic element shapes and behaviour, Choice of element type, Size	C batch	15^{h} September 2014	Completed
4.	Presentation Higher Order Element Formulations:	Different higher order elements, applications, results	Discuss different higher order elements and its applications with effect on end results.	D batch	25th September 2014	Completed

Signature of the Faculty

Karmaveer Bhaurao Patil College of Engineering, & Polytechnique Satara

Project Based Learning

Academic Year: 14-15 Semester:- I / II   Course name: Machine Design II

Sr.No	Project Title	Objectives	Outcomes	Roll numbers of the participants	Date of Completion	Remarks of Facult
1.	Design of m/c component for flucty-ating component.	1. To design m/c component for fluctuating load.	1. student should able to design m/c component under fluctuating load	5, 8, 10, 15, 16	28/04/1	couple
2.	Selection of Bearing for various application	To select bearing for various applicatn	1. student should able to select bearing from manufacturing catlogue.	20, 22, 26, 28, 30	26/04/1	complet
3.	Various types of Bearings.	To recognize Various types of bearings	student should recognize various types of Bearing.	32, 40, 35, 33, 37	28/04/1	Couple
4.	Parameter for design sliding contact bearing.	To select parameter for sliding contact bearig.	Student should able to select parameters for sliding contact bearing.	42, 45, 48, 50, 52.	26/04/1	couple
5.	Selection of various types of gears.	To select various types of gears for various applicatn	Student should able to select gears for various types of applian	55, 56, 58, 53, 59.	22/04/1	complet
6.	Selection of lubricant	To select lubricant for various applicatn.	student should able to select lubricant.	60, 62, 65, 67, 69.	24/04/1	complet
7.	Bearing failure causes & Remedie	To find out causes for bearing failure.	Student should know causes of bearing failure.	70, 61, 64, 68, 54.	26/04/1	complet

Signature of the Faculty

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Karmaveer Bhaurao Patil College of Engineering and Polytechnic, Satara

Project Based Learning

Academic Year: 2015-16 Semester:- I / IV   Course

name: Applied Thermodynamics

Sr.No	Project Title	Objectives	Outcomes	Roll numbers of the participants	Date of Completion	Remarks of Faculty
	Study of					
01	Boiler Mountings	i) To understand different components of steam or various powerplant as well detailed working of each component	i) Student will be able to understand proper functioning of each of every component	1-5, 46-50	30/9/2015	Satisfactory
02	Accessories			6-10, 51-55	30/9/2015	Satisfactory
03	Steam powerplant			11-15, 56-60	30/9/2015	Satisfactory
04	Condensers			16-20, 60 onwards	30/9/2015	Satisfactory
05	Boilers			21-25,	30/9/2015	Satisfactory
06	Turbines			26-30,	30/9/2015	Satisfactory
07	Nozzles			31-35,	30/9/2015	Satisfactory
08	Heat Exchanger			36-40,	30/9/2015	Satisfactory
09	Evaporators			41-46,	30/9/2015	Satisfactory

Ghadage

Miss. S.V. Ghadage

Signature of the Faculty

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Karmaveer Bhaurao Patil College of Engineering Satara

Project Based Learning
Name of the Program- **Mechanical Engg.**

Name of the Course- **Machine Tools & Processes**　　　　AY-2016-17　　Class- SE Mech,　　Sem-IV
Course Coordinator- Mr. Dayanand Ghatge

Sr.No	Project Title	Objectives	Outcomes	Roll numbers of the participants	Date of Completion	Remarks of Faculty
1	Poster on Lathe Operations	To study the Lathe Operations	Students learned different Lathe Operations	Batch A	20/01/2017	Completed
2	Preparation of Chart on difference between Capstan & Turret Lathe	To study the difference between Capstan & Turret Lathe	Students learned difference between Capstan & Turret Lathe	Batch B	16/02/2017	Completed
3	Poster on Quick return mechanism used in shaper	To study the Quick return mechanism used in shaper	Students learned Quick return mechanism used in shaper	Batch C	13/03/2017	Completed
4	Chart on Types of Boring operations	To study the Types of Boring operations	Students learned Types of Boring operations	Batch D	20/03/2017	Completed

Course Coordinator

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Rayat Shikshan Sanstha's
Karmaveer Bhaurao Patil College of Engineering, Satara
Project based learning
AY 2016-17, Sem-II

Program Name- Mechanical Engg.

Class- SE Mech

Name of the course coordinator- Mr. Dayanand Ghatge

Course name- Machine Tools & Processes (ME214)

Sr. No.	Name of Students	Name of Project	Unit to be covered	Objective	Outcome	Planned duration	Completion date	Remark
1	AVAGHADE AVINASH NANDKUMAR	Case study on Automobile applications of Casting processes	Unit no1 Casting Processes	To study applications of various casing processes	Students understood the various applications of casting processes in automobile industry	26/12/2016 to 17/01/2017	19/01/2017	Satisfactory
2	BANSODE HRISHIKESH AMOL							
3	BARGE MAYUR BALKRISHNA							
4	BHANAGE PRATHMESH SANJAY							
5	BHONDAVE MRUNAL SATISH							
6	BHONDAVE SUSHANT SHAHAJI							
7	BHOSALE RHUSHIKESH SANJIVAN							
8	BHOSALE SANYUKTA RAJKUMAR							
9	BHUJBAL NITIN ASHOK							
10	CHAVAN PARESH GANAPATI							
11	CHAWADIWALE MUAAJ AKIL							
12	CHOPRA AASTIKA RAKESH							
13	GADIWADDAR GOPAL MASAPPA							
14	GHADAGE DHIRAJ DHANARAJ	Presentation on Metal Forming Processes with applications	Unit no2 Metal Forming processes	To study the metal forming processes with their applications	Students learned various applications /products of metal	21/01/2017 to 01/02/2017	01/02/2017	Ok
15	HADAPAD AKASH ANNAPPA							
16	INAMDAR SOHAIL ASHFAQUE							

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						forming			
17	JADHAV ABHISHEK SUNIL								
18	JADHAV GANESH AJAY								
19	JAGTAP PRATIK SANTAJIRAO								
20	JANGAM KIRAN SOPAN								
21	KADAM CHANDAN RAJENDRA								
22	KALE AKSHAY SOPAN								
23	KAMBLE KOMAL PANDURANG								
24	KAMBALE SHRIKANT SATISH								
25	KARANDE POOJA ANANDRAO								
26	KENJALE PRAJAKTA RAJENDRA								
27	KUDCHIKAR AISHWARYA SANDESH								
28	KUMBHAR AMAR PANDURANG								
29	LAD SHIVAM SHANKARRAO								
30	MAHAMUNI OMKAR SUNIL	Case study on Applications Shaping of plastic processes	Unit no 3 Shaping of plastic processes	To study the types of plastic moulding processes with applications	Students learned plastic moulding processes with their applications	07/02/2017 to 13/02/2017	13/02/2017	Satisfactory
31	MOHITE PRANAV BHAUSAHEB								
32	MOHITE RUSHIKESH RAJENDRA								
33	MORE RUTUJA KESHAV								
34	MULANI NAHIN MOHIDDIN								
35	MULLA SAHIL RAJJAK								
36	NADAF SUHEL SHEKHLAL								
37	NIKAM AJAY GHANSHYAM								
38	PANASKAR SANKET VASANTRAO	Preparation of chart on Lathe machine &	Unit no 4 Metal Cutting processes	To study the lathe with its operations	Students learned lathe machine with	15/02/2017 to	28/02/2017	Satisfactory
39	PATIL OMKAR								

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		its operations			its operations	28/02/2017		
	SANJAY							
40	PAWAR VIDYA RAJENDRA							
41	POL OMKAR CHANDRAKANT							
42	RAUT OMKAR MANAJI							
43	SAWANT SAPANA RAJENDRA							
44	SHINDE SAHIL SANJAYKUMAR							
45	SUTAR OMKAR MACHINDRA	Preparation of chart on Drilling machine & its operations	Unit no 4 Metal cutting processes	To study drilling machines with its operations	Students learned types of drilling machines with its operations	28/02/2017 to 02/03/2017	02/03/2017	Satisfactory
46	TARANGE MADHAV SHIVAJI							
47	YADAV DHANAJI SHIVAJI							
48	WAGH ROHIT ARJUN							
49	PILAWARE AKSHAY TUKARAM	Preparation of chart on Boring machine & its operations	Unit no 4 Metal cutting processes	To study Boring machines with its operations	Students learned types of Boring machines with its operations	04/03/2017 to 08/03/2017	08/03/2017	Satisfactory
50	BAGWAN SHAHABAZ SHAKIL							
51	GUJAR GANESH ARJUN							
52	PAWAR SAGAR PRAKASH							
53	RATHOD SWAPNIL RAMDAS	Presentation on Milling Machines	Unit no 5 Metal cutting processes	To study Milling machines with its operations	Students learned types of Milling machines with its operations	09/03/2017 to 15/03/2017	15/03/2017	Satisfactory
54	SAWANT AKASH SANJAY							
55	SHELAR VINEET AJAY							
56	SHIRKE RAJESH JAYWANT							
57	WAYDANDE AMIT JAGANATH							
58	BASWANT RAVIRAJ SUBHASH	Presentation on Shaper Machine	Unit no 5 Metal cutting processes	To study shaping machines with its operations	Students learned types of shaping machines with its operations	02/03/2017 to 06/03/2017	08/03/2017	
59	DHADAME SHIVANJALI SANJAY							
60	BAGWAN SUHEL HAIDAR							
61	DESHMUKH SNEHAL RAMCHANDRA	Presentation on Planer Machine	Unit no 5 Metal cutting	To study Planer machines with its	Students learned types of Planer up.	04/03/2017 to	09/03/2017	Satisfactory
62	KORE SARASWATI ABHAYKUMAR							
63	CHAVAN SHRADHA							

	Name							
	ISHWAR		processes	operations	machines with its operations	08/03/2017		
64	MORE NITIRAJ NIWAS							
65	KARANJAKAR OMKAR VIDYASAGAR							
66	JEET KISHOR SHENDE							
67	MANGRULE PRASAD PRAKSH	Presentation on Gear Manufacturing Processes	Unit no 5 Metal cutting processes	To study the Gear Manufacturing Processes	Students learned types of Gear Manufacturing Processes	09/03/2017 to 14/03/2017	15/03/2017	Satisfactory
68	SHINDE YOGESH BAJRANG							
69	KARANDE SWAPNIL DASHARATH							
70	KAJALE AKSHAY TULSHIRAM							
71	JAGATAP GIRISH VIJAY							
72	MANE AVINASH NANDAKUMAR	Case study on Applications of Non-conventional Machining processes	Unit no 6 Metal cutting processes	To study the Non-conventional Machining Processes with its applications	Students learned Non-conventional Machining Processes with its applications	18/03/2017 to 22/03/2017	24/03/2017	Satisfactory
73	SIRSAT VIKAS SHRIHARI							
74	SHINDE POOJA VILAS							
75	CHAVAN VISHAL SHANKAR							
76	SORATE ABHIJEET TANAJI							
77	MANE SACHIN BALU							
78	THORAT ROHIT BHASKAR							
79	YADAV SUMIT							

Course coordinator

H.O.D
Mechanical Engineering Department
K.B.P College of Engineering, Satara

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Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering Satara

Name of the Program: Mechanical Engineering

Metric No. 2.3.1 Project Based Learning

Course Name- Applied Numerical Method

Course Co-ordinator- Pravin Jadhav

Academic Year- 2017-18

Group No.	Date	Roll. No.	Name of the students	Title	Unit and the contents for which it is planed	Objective	Outcome	Remark
Group No. 1	19-12-2017 to 23-1-2018	1	ANBHULE JAYESH JAGANNATH	C Program for the Bisection Method and False Position Method	UNIT-I: Errors and Roots of Equation (Bisection method and False position Method)	1. Calculate a root of equation by bisection and false position Method 2. Compute a root of equation by C Langauge programming Langauge	Students should able to know numerical as well as programming skills to calculate the roots of equation	Checked
		2	BADEKAR NIKHIL SATISH					
		3	BHAT HRISHIKESH SHRIPAD					
		4	BODHE CHINMAY MOHAN					
		5	DALAVI AKASH RAVINDRA					
		65	SHINDE ANIKET DATTATRAY					
		66	YADAV BHAGYESH DILIP					
		67	BAGWAN SAAD S.					
		68	PHADATARE SAYALI N.					
		69	SHAIKH SAQLAN ALTAB					
		70	KAMBLE MANISH DILIP					
Group No. 2	1-1-2018	6	DESHMUKH OMKAR JAGDISH	Coding for Newton	UNIT-I: Errors and	1. Numerically calculate roots of	Students should able to	Checked
		7	DESHMUKH SANKET VASANT					

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	to 3-1-2018	9	GUJAR SHUBHAM RAJENDRA	Raphson Method and secant Method	Roots of Equation (Newton Raphson Method and secant Method)	equation by Newton Raphson Method and secant Method 2. By using Programming codes calculate the roots of equation by Newton Raphson Method and secant Method	know numerical as well as programming skills to calculate the roots of equation	
		10	KADAM DIGVIJAY SANJAY					
		11	KADAM SHREYASH DATTATRAY					
		50	TAPASE DHANASHRI D.					
		51	DANGE ASIF M.					
		52	DHAVALE LAUKIK VIJAY					
		53	SHILAMKAR SWAPNIL SURESH					
		54	DALAVI LAKHAN AATMARAM					
		55	JANGAM GAURAV MAHESH					
		56	BAGWAN AKIB BAKIR					
		57	JADHAV AASHISH DILIP					
		58	SHAIKH USAMAH UZAIR					
		59	SHINDE SURAJ DATTATRAY					
		60	BALE CHAITANYA SHAHAJI					
		61	BHASME VISHAL VITTHAL					
		62	BAILE KAPIL PRASAD					
		63	SHINDE AKASH ATUL					
		64	PATIL TUSHAR JALINDAR					
Group No. 3	10-1-2018 to 22-3-2018	23	LOHAR POOJA JAYAWANT	A Maths Project on Probability, Curve fitting, Linear Algebraic Equation, Ordinary Equation and Partial Differential	UNIT-II: Linear Algebraic Equation, UNIT-III: Curve Fitting, UNIT-V: Ordinary Differential equation, UNIT-VI:	1. Student also learn how to use and analyse mathematical terms and their iterconnection. 2. Students will learn about probability, Curve Fitting, Linear	Students will learn to solve real life (application oriented) problems related to probability, Curve Fitting, Linear Algebraic	Checked
		24	MANE OMKAR MANOHAR					
		25	MANE SURAJ RAMESH					
		26	NIPANE SANGRAM SANJAY					
		27	PATIL PRAJWAL DEEPAK					
		28	PAWAR HRISHIKESH RAJESH					
		29	PAWAR MANOJ DADASAHEB					
		30	PAWAR PRASAD BALU					
		31	PHARANDE SHUBHAM DATTATRAYA					

		32	PHARANDE SRUJAN RAJENDRA	Equation	Partial Differential equation	Algebraic Equation, Ordinary Differential equation, Partial Differential equation	Equation, ordinary and partial differential equation Ordinary Differential equation, Partial Differential equation	
		33	RAJAGE SANGRAM BIRU					
		34	SAKHARE NIKHIL NANDKUMAR					
		35	SAKHARKAR RANJEET RAMCHANDRA					
		36	SANGPAL RAHUL RAJENDRA					
		37	SAPKAL SANKET NANDKUMAR					
		38	SHINDE GANESH KAILAS					
		39	SHINDE KETAN RAJARAM					
		40	SHINGATE SUMEDH DATTATRAY					
		41	SURVE PARAG BHAU					
		42	THORAT TEJAS ASHOK					
		43	TULSANKAR SANKET PARASHRAM					
		44	VEER ONKAR UDAY					
		45	ZAGADE SWAPNIL BALAJI					
		46	TADSARKAR ARSHAD					
		47	NAGARE ABHIJEET A.					
Group No. 4	19-12-2017 and 5-3-2018	12	KALE DHANASHRI ANANDRAO	Numerical model and Programming model of Mullers method and Eulers Modified Method	UNIT-I: Errors and Roots of Equation UNIT-V: Ordinary Differential equation	1. Solve ordinary differential equation by Euler method (by both numerically and programming) 2.Find roots of equation by Mullers Method (numerically and programming)	1. Student able to Solve ordinary differential equation by Euler method (by both numerically and programming) 2.Students able find roots	Checked
		14	KANTHE NIKITA SANJAY					
		15	KARNE ANIKET ASHOK					
		16	KASHID PRATIK DIPAK					
		17	KULKARNI ADITYA HEMANT					
		18	KULKARNI SHREYAS SHRIKANT					
		19	LADE NIKHIL PRAKASH					
		20	LANDAGE JAYSHING SUNIL					
		21	LANGADE HARSHAL SUNIL					
		22	LIPARE SHUBHAM ASHOK					
		48	AWAGHADE AVINASH N.					

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mayeer Bhaurao Patil College of En ⬤ Satara

Project Based Lea___ Activity

Class: T.E Mechanical (2016-17)

Sub: Machine Design II

Name of Faculty:Mrs.Shinde M.Y.

GROUP NO.	Students Name	Roll No.	Topic	Objective	Outcome	Remark
1	GAIKAWAD HRUSHIKESH SOPAN		Gear Inspection	To study Gear inspecta procedure.	student should know gear inspection procedure	Completed
	YADAV HAPSHAD RAJNIKANT					
	YADAV POOJA RAMCHANDRA					
	LOHAR PRIYANKA PARSHURAM					
	SHINGADE NILESH POPAT					
2	SUTAR SANTOSH PRAKASH		Selection of shaft	To study desit procedure for selection of shaft	student should know design procedure for shaft selection	Completed
	SALUNKHE TUSHAR BALKRISHNA					
	DHAYGUDE TEJASVI DILIP					
	DALAVI SHWETA RANJAY					
	URADE PRANJALI DEEPAK					
3	TATE AKSHAY MARUTI		Selection of bearing	To study selection of bearing from manufacturing catlogu.	student should know design & selection procedure of bearing from catalogue.	Completed
	PHADTARE PRATIK SHRIKANT					
	MURKUTE ABHIJEET ASHOK					
	TATPUJE ROHIT SATISH					
	SHINDHE CHANDRAHAR RAJARAM					
4	RATHOD NAKSUSA BHIMRAO		Helical gear	To study manufactureing procedure of helical gear.	student should know manufactureing procedure of helical gear.	Completed
	SABLE ABHIJEET PRAKASHRAO					
	PATOLE MANGESH MACHHINDRA					
	KUMBHAR ADITYA ASHOK					
	PATIL AKSHAY VIJAY					
5	GOD SUSHAMA UTTAM		Selection of key	To study design procedure for key selection.	student should know design procedure for key.	Completed
	JADHAV AJAY ARJUN					
	GAIKWAD ANIKET KRUSHNAT					
	DIVATE KRISHNA PRAMOD					
5	NIKALJE SUJEET PRAKESH		Selection of seal	To study proceduring seal selecta	student should know seal selection procedure	Completed
	JADHAV VIKAS PRALHAD					
	SONWALKAR PRAVIN DNYANESHWAR					
	BACHAL GANESH NANDKUMAR					
	SHINDE PRASHANT RAGHUNATH					

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Karmaveer Bhaurao Patil College, Satara

Project Based Learning Activity

Class: T.E Mechanical (2016-17)

Sub: Machine Design II

Name of Faculty:Mrs.Shinde M.Y.

GROUP	Students Name						
7	NIKALJE SUJEET PRAKESH			Selection of Bearing	To study selection of bearing Procedure for catalogue	Student should able to study selection of bearing procedure for catalogue.	Completed
	JADHAV VIKAS PRALHAD						
	SONWALKAR PRAVIN DNYANESHWAR						
	BACHAL GANESH NANDKUMAR						
	SHINDE PRASHANT RAGHUNATH						
8	BANKAR AKSHAY KISAN			Bearing Manufacturing	To study Bearing manufacturing methods.	Student should know bearing manufacturing methods.	Completed
	DESHMUKH SURAJ PRABHAKAR						
	DESHMUKH SHUBHAM SURESH						
	JADHAV AJIT MANIK						
	JADHAV SAYLI JAGANNATH						
9	GHARGE MAHESH PRAKASH			Worm & Worm Manufacturing	To study worm & worm manufacturing	Student should know worm & worm gear manufacturing	Completed
	PAWAR PRANAV GHANASHYAM						
	KASHID SHIVRAJ MAHESH						
	GHADGE AJAY DEEPAK						
	JADHAV AJINKYA RAMESH						
10	KOKARE KARISHMA			Gear measurement	To study gear measurement Procedure.	Student will know gear measurement procedure.	Completed
	PATIL ANJALI						
	KAZI AZIM RAFIK						
	OMBALE AKSHAY DILIP						
	MANDVEKAR SHUBHAM						
11	BHANGE SANJIT SHANKAR			Sliding Contact Bearing	To study of sliding contact bearing	Student should know sliding contact bearing manufacturing.	Completed
	GURAV MANOJ SAKHARAM						
	PATIL AMAR SHASHIKANT						
	WAIKAR AJIT SUNIL						
	KALBHOR PANKAJ SUBHASH						
12	GAIKWAD ABHAYA P			Study of Goodman Diagram	To study goodman diagram.	Student will know Goodman diagram	Completed
	MANE OMKAR B						
	SHINDE OMKAR Y						
	CHAVAN SHIVANI L						
	SHIKALGAR NAZIYA M						

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Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Project Based Learning Activity

Class: T.E Mechanical (2016-17)   Sub: Machine Design II

GROUP NO.			Topic	objectives	outcome Name of Faculty:Mrs.Shinde M.Y.	
13	BHOSALE SIDDESH ASHOK		Double helical gear Manufacturing	To study double helical gear manufacturing	Student should able to study manufacturing process of double helical gear	Completed
	GHADGE SANKET SUNIL					
	SHELKE AKSHAY ABA					
	GHANWAT ANIKET LAXMAN					
	TODKAR SHRIDHAR ANADRAO					
14	YADAV AISHWARYA UMESH		Rolling contact bearing	To study manufacturing of rolling contact bearing	Student should also know rolling contact bearing manufacturing	Completed
	WADETTIWAR PRAJYOT BHASKAR					
	SHELAR ROHAN SANJAY					
	SHELAR AKSHAY SURESH					
	MALWADE HARSHAL VILAS					
15	KADAM OMKAR		Selection of material	To study material selection for different appln	Student will know Material selection for different appln	Completed
	KADAM AKSHAY KRISHNAT					
	KULKARNI AMEY VAIBHAV					
	PHADATARE GIRISH					
16	SAYYAD JAID HAROON		Taper Roller Baring Selection	To study selection Procedure for taper roller bearing	Student will know selection procedure for taper roller bearing	Completed
	ZODGE PRAFULL					
	AWALE SHUBHAM					
	SHINDE SHAILESH					

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Rayat Shikshan Sanstha's
Karmaveer Bhaurao Patil College of Engineering, Satara

Project Based Learning

Class: BE   Academic Year: 2016-17 Semesters: - I   Course coordinator: Patil Sharad

Course name: Finite Element Analysis

Sr. No	Project Title	Objectives	Outcomes	Roll numbers of the participants	Date of Completion	Remarks of Faculty
1.	Presentation on General steps of FEM using a simple 1-d element for stress analysis of a stepped bar	General steps of finite element analysis	Understand the basic steps in finite element analysis. Solve the numerical.	A batch	15th July 2016	Completed
2.	Assignments on 1-d elements.	Analytical solution for 1-d elements.	Solve the numerical for structural and thermal 1-d problems.	B batch	12th August 2016	Completed
3.	Presentation Discritization of the problem	Discritization of the problem	Discuss Basic element shapes and behaviour, Choice of element type, Size	C batch	9th September 2016	Completed
4.	Assignments on two dimensional heat transfer, axi-symmetric heat transfer	Two dimensional heat transfer, axi-symmetric heat transfer	Solve the numerical for structural and thermal 1-d problems.	D batch	30th September 2016	Completed

Signature of the Faculty

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Project Based Learning

Year:-2016-17

Semester:-I

Subject:- Remote Sensing and Application of GIS in Civil Engineering

Roll No	Name of Students
10	Doiphode Vitthal K.
13	Gaikwad Sanket S.
34	Katkar Akshay S.
45	Lokhande Santosh V.
91	Vibhute Amol V.

Project Based Learning

Department:- Civil Engineering

Course With Code:- Remote Sensing and Application of GIS in Civil Engineering

Class:- BE   **Semester:-** I   **Year:-** 2016-17

Duration:- 04/07/2016 to 21/09/2016

TITLE:- BASIC CONCEPTS OF REMOTE SENSING

Remote sensing is an art and science of obtaining information about an object or feature without physically coming in contact with that object or feature. Humans apply remote sensing in their day-to-day business, through vision, hearing and sense of smell. The data collected can be of many forms: variations in acoustic wave distributions (e.g., sonar), variations in force distributions (e.g., gravity meter), variations in electromagnetic energy distributions (e.g., eye) etc. These remotely collected data through various sensors may be analyzed to obtain information about the objects or features under investigation. In this course we will deal with remote sensing through electromagnetic energy sensors only.

Thus, remote sensing is the process of inferring surface parameters from measurements of the electromagnetic radiation (EMR) from the Earth's surface. This EMR can either be reflected or emitted from the Earth's surface. In other words, remote sensing is detecting and measuring electromagnetic (EM) energy emanating or reflected from distant objects made of various materials, so that we can identify and categorize these objects by class or type, substance and spatial distribution [American Society of Photogrammetry, 1975].
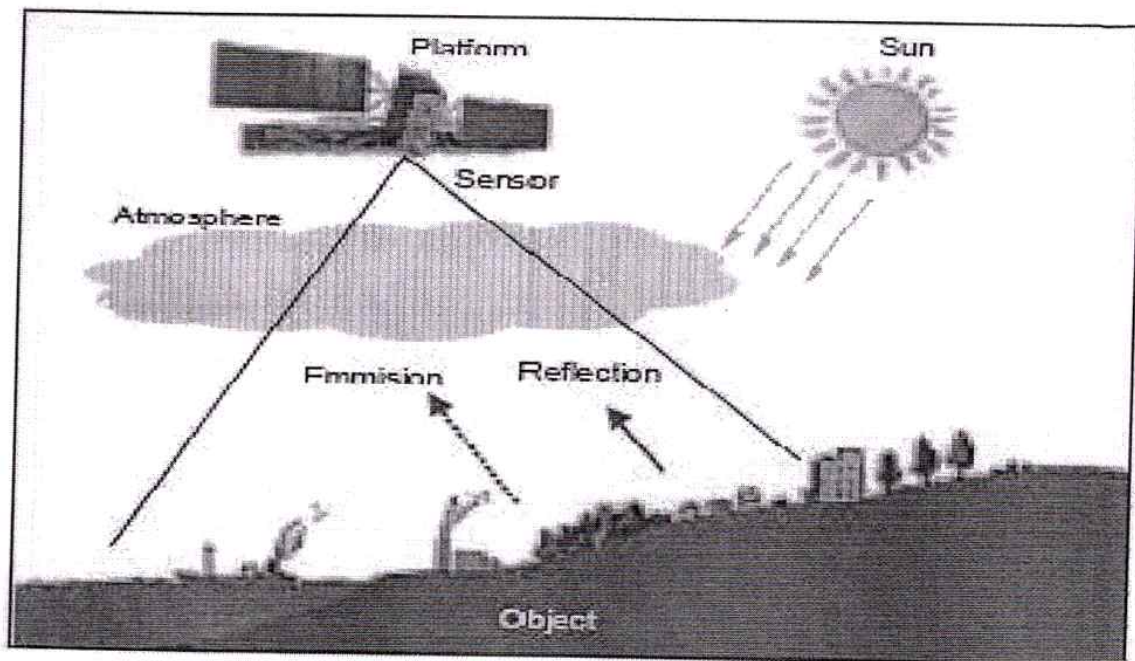
Fig. 1. Schematic representation of remote sensing technique

Remote sensing provides a means of observing large areas at finer spatial and temporal frequencies. It finds extensive applications in civil engineering including watershed studies, hydrological states and fluxes simulation, hydrological modeling, disaster management services such as flood and drought warning and monitoring, damage assessment in case of natural calamities, environmental monitoring, urban planning etc.

Basic concepts of remote sensing are introduced below.

Electromagnetic Energy

Electromagnetic energy or electromagnetic radiation (EMR) is the energy propagated in the form of an advancing interaction between electric and magnetic fields (Sabbins, 1978). It travels with the velocity of light. Visible light, ultraviolet rays, infrared rays, heat, radio waves, X-rays all are different forms of electro-magnetic energy.

Electro-magnetic energy (E) can be expressed either in terms of frequency (f) or wave length (λ) of radiation as

$$E = hcf \, or \, hc/\lambda$$

In remote sensing terminology, electromagnetic energy is generally expressed in terms of wavelength, λ.

All matters reflect, emit or radiate a range of electromagnetic energy, depending upon the material characteristics. In remote sensing, it is the measurement of electromagnetic radiation reflected or emitted from an object, is the used to identify the target and to infer its properties.

Principles of Remote Sensing

Different objects reflect or emit different amounts of energy in different bands of the electromagnetic spectrum. The amount of energy reflected or emitted depends on the properties of both the material and the incident energy (angle of incidence, intensity and wavelength). Detection and discrimination of objects or surface features is done through the uniqueness of the reflected or emitted electromagnetic radiation from the object.

A device to detect this reflected or emitted electro-magnetic radiation from an object is called a "sensor" (e.g., cameras and scanners). A vehicle used to carry the sensor is called a "platform" (e.g., aircrafts and satellites).

Main stages in remote sensing are the following.

A. Emission of electromagnetic radiation

The Sun or an EMR source located on the platform

B. Transmission of energy from the source to the object

Absorption and scattering of the EMR while transmission

C. Interaction of EMR with the object and subsequent reflection and emission

D. Transmission of energy from the object to the sensor

E. Recording of energy by the sensor

Photographic or non-photographic sensors

F. Transmission of the recorded information to the ground station

G. Processing of the data into digital or hard copy image

H. Analysis of data
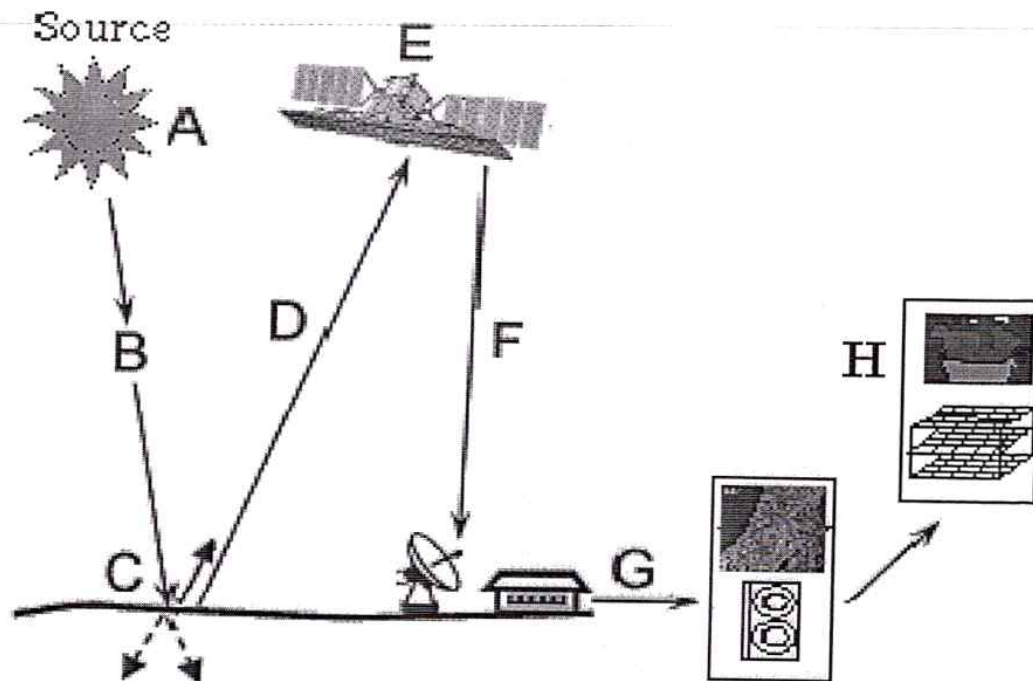
Fig.2 Important stages in remote sensing

Passive/ Active Remote Sensing

Depending on the source of electromagnetic energy, remote sensing can be classified as passive or active remote sensing.

In the case of passive remote sensing, source of energy is that naturally available such as the Sun. Most of the remote sensing systems work in passive mode using solar energy as the source of EMR. Solar energy reflected by the targets at specific wavelength bands are recorded using sensors onboard air-borne or space borne platforms. In order to ensure ample signal strength received at the sensor, wavelength / energy bands capable of traversing through the atmosphere, without significant loss through atmospheric interactions, are generally used in remote sensing

Any object which is at a temperature above 0o K (Kelvin) emits some radiation, which is approximately proportional to the fourth power of the temperature of the object. Thus the Earth also emits some radiation since its ambient temperature is about 300o K. Passive sensors can also be used to measure the Earth's radiance but they are not very popular as the energy content is very low.

In the case of active remote sensing, energy is generated and sent from the remote sensing platform towards the targets. The energy reflected back from the targets are recorded using sensors onboard the remote sensing platform. Most of the microwave remote sensing is done through active remote sensing.

As a simple analogy, passive remote sensing is similar to taking a picture with an ordinary camera whereas active remote sensing is analogous to taking a picture with camera having built-in flash
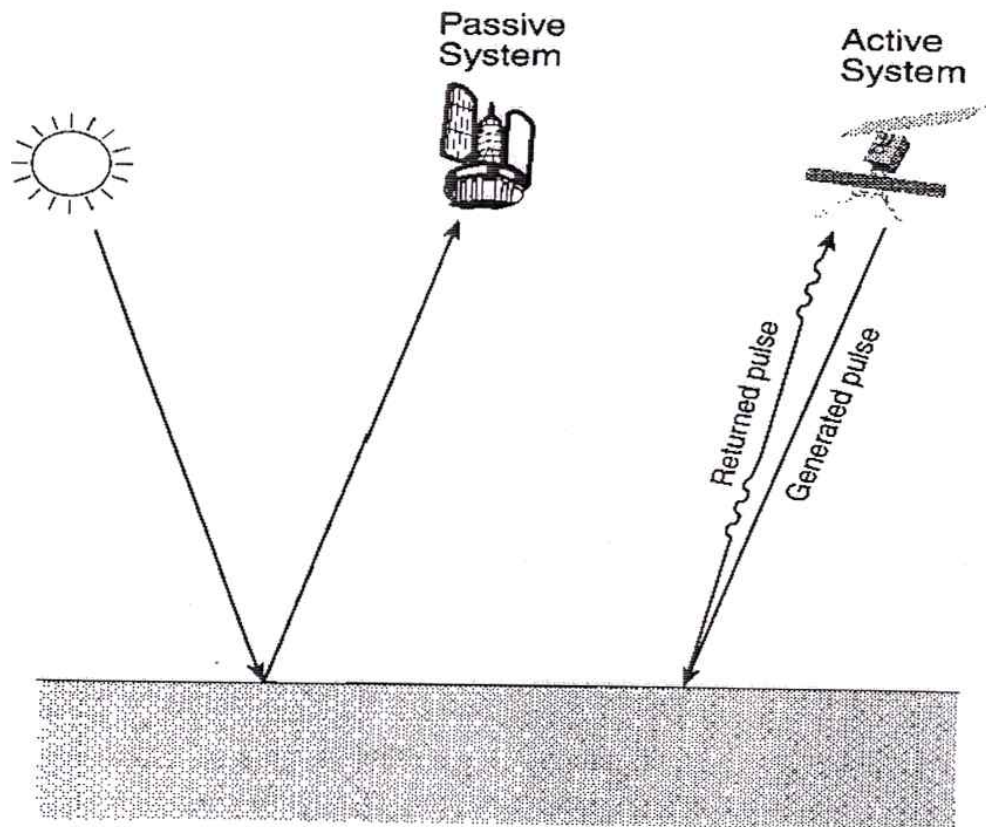
Fig.3 Schematic representation of passive and active remote sensing

Remote Sensing Platforms

Remote sensing platforms can be classified as follows, based on the elevation from the Earth's surface at which these platforms are placed.

1Ground level remote sensing

o Ground level remote sensors are very close to the ground

o They are basically used to develop and calibrate sensors for different features on the Earth's surface.

2 Aerial remote sensing

o Low altitude aerial remote sensing

o High altitude aerial remote sensing

3 Space borne remote sensing

o Space shuttles

o Polar orbiting satellites

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o Geo-stationary satellites

From each of these platforms, remote sensing can be done either in passive or active mode.
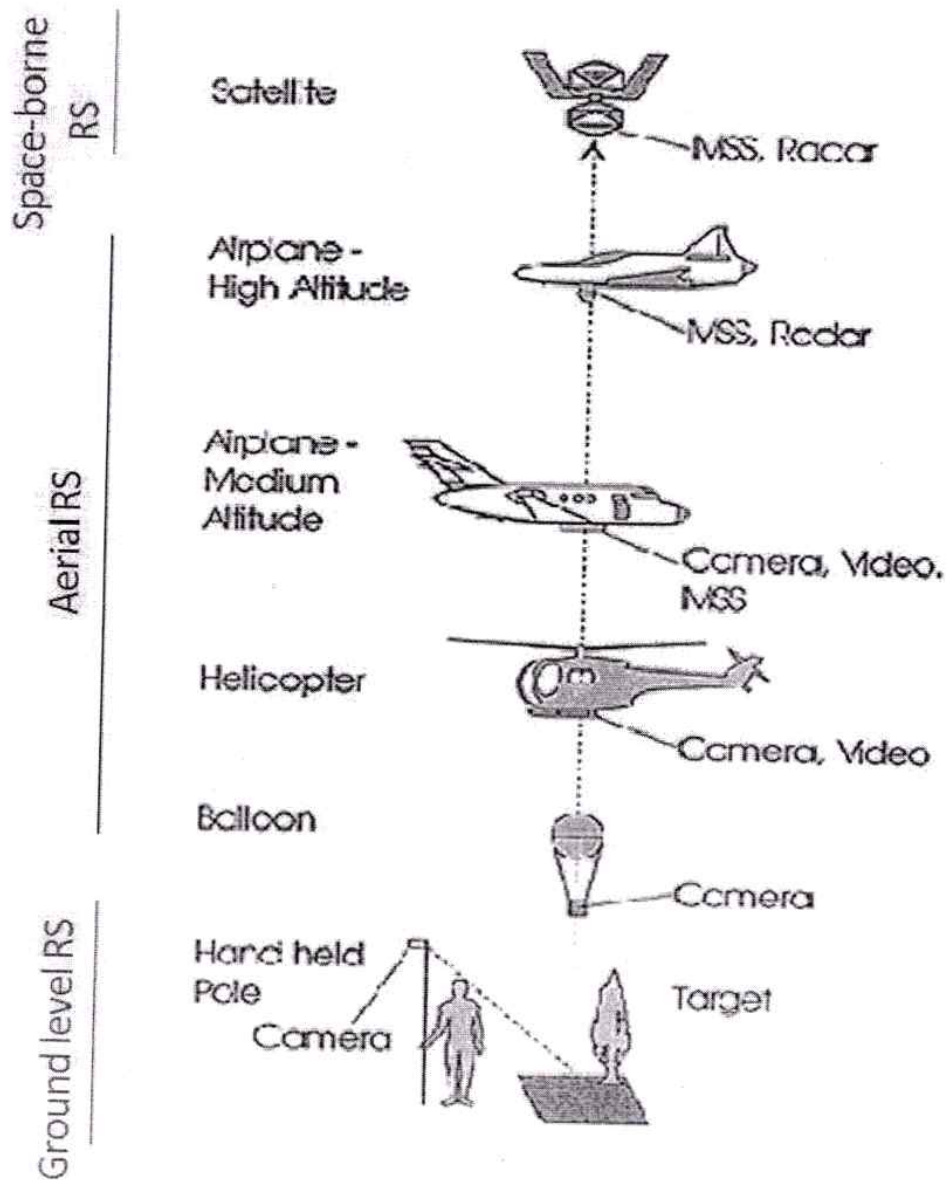
Fig.4 Remote sensing platforms

Objective:-

1] To study the basic concepts of remote sensing.
2] To collect the information about basic concepts of remote sensing.
3] To study different parameter basic concepts of remote sensing.

Outcome:-

1] Learns concept basic concepts of remote sensing.
2] Understand basic concepts of remote sensing.
3] Collect maximum information about this topic.

E-Reference:-

1] http://geoportal.icimod.org
2] http://www.ilmb.gov.bc.ca/risc/pubs/aquatic/aerialvideo/assets/figure1.gif

Books:-

1) American Society of Photogrammetry Washington D. C. Manual of Photographic Interpretation. (1960) and (1975)
2) Remote Sensing, Principles and Interpretation –F. F. Sabins, W. H. Freeman &co.
3) Principles of Geomorphology – W. D. Thornbury – John Wiley and Sons, INC.
4) G.I.S- Anji Reddy , publishers- MGH
5) Remote sensing in Civil Engineering – T. J. M. Kennie and M. C. Mathews, Surry University press, London.
6) Remote Sensing and Image Interpretation- Thomas M. Liillesand and R.W. Kiefer, Wiley & Sons Insc.

Project Based Learning

Year:-2016-17

Semester:-I

Subject:- Water Resources Engineering -I

Roll No	Name of Students
01	Adsul Akshay Dayanand
10	Chinchkar Ajinkay Vijay
16	Dudhgaonkar Suraj Surendra
39	Lawale Reshma Hunmant
56	Patil Ashish Hambirrao

Project Based Learning

Department:- Civil Engineering

Course With Code:- Water Resources Engineering-I

Class :- TE   Semester:- I   Year:- 2016-17

Duration:- 04/08/2016 to 28/09/2016

Title: Siphon Type rain gauge (Recording Type Rain Gauge)

Recording Type Rain-Gauge:

The recording gauge consists of a funnel 127 mm in diameter fixed on one side of a rectangular box. It is called receiver also. In the rectangular box a float is adjusted. The float is connected by means of a float rod to a pin point (or a recording pen). The pin point touches a graph paper mounted on a rotating drum.

The drum is mounted on the top of the receiver on the other side. A clockwork arrangement revolves the drum once in 24 hours. At the bottom the box is connected to a siphon. The siphon comes into action and releases the water as soon as box is filled to a certain level. Figure shows complete arrangement, it is called natural siphon type recording rain-gauge.

As the rainfall starts rain water passes through the funnel into the box. As the water level in the box rises the float is also raised. In turn the pin point moves on the graph to plot a mass curve of rainfall. When the box is filled to such an extent that the float touches the top, the siphon starts working and the rainwater collected in the box is drained out.

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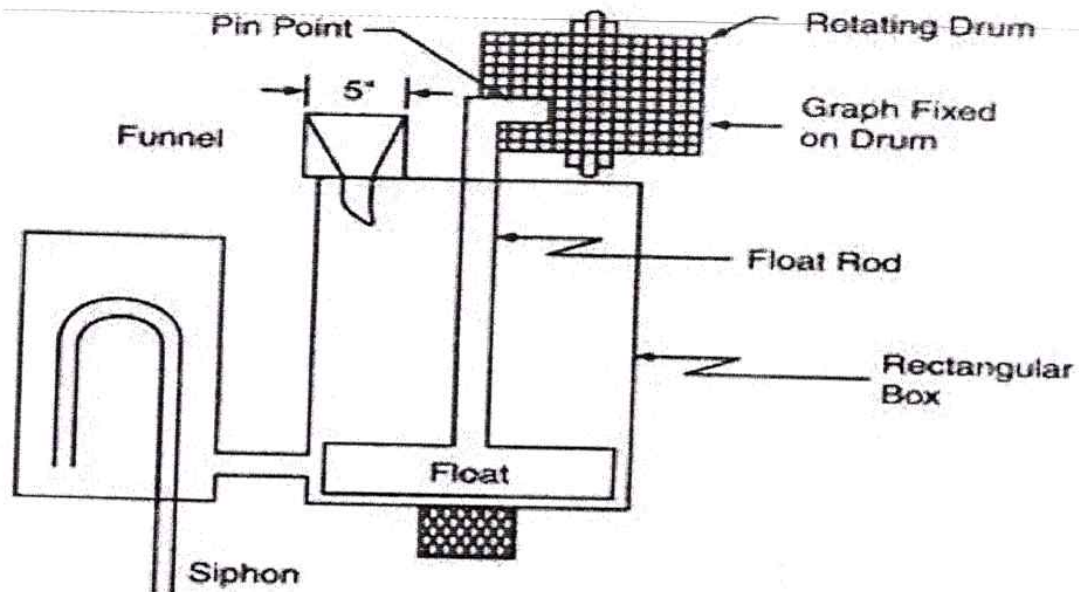
Fig. 2.5. Recording type rain-gauge

Mass Curve Principle of Integrating Rain-Gauge:

The recording type rain-gauge is also called integrating rain-gauge. The reason is that the curve obtained on the graph is a cumulative curve in respect of rainfall. On y-axis we get accumulated or integrated rainfall and on x-axis we have equal time increment. This type of curve in which one ordinate gives accumulated values is called a mass curve. On the graph mounted on the rotating drum we get the mass curve of rainfall.
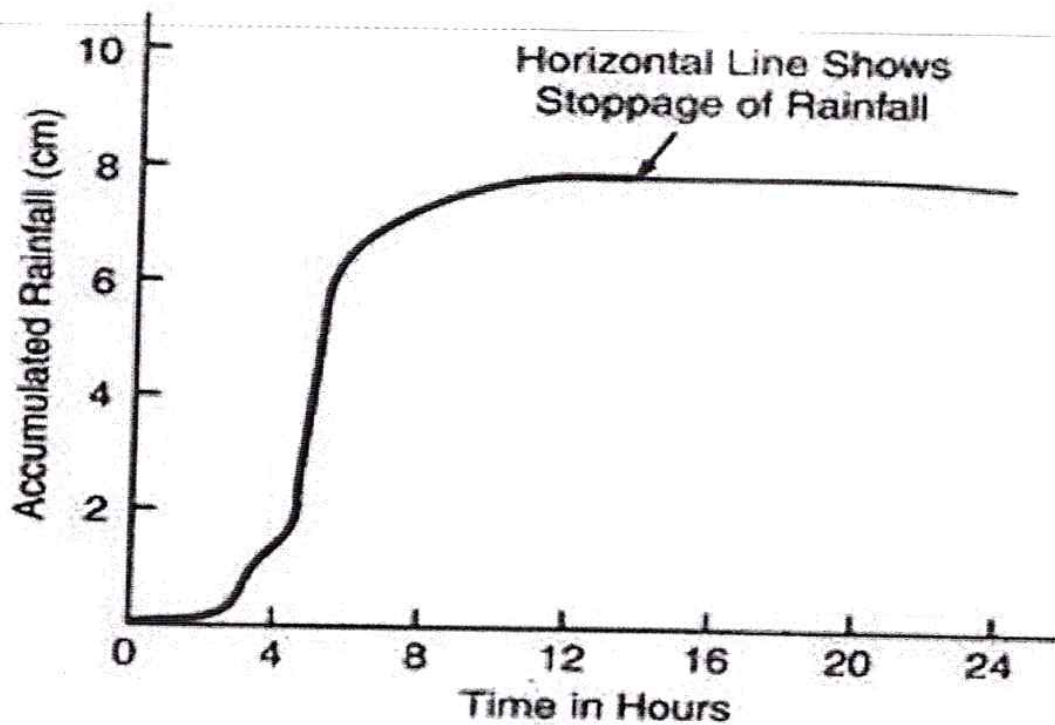
Fig. 2.6. Mass curve of rainfall

Advantages of recording rain gauges:

1. Necessity of an attendant does not arise

2. Intensity of rainfall at anytime as well as total rainfall is obtained, where as non recording gauge gives only total rainfall.

3. Data from in accessible places (hilly regions) can be continuously obtained once gauge is established.

4. Human errors are eliminated.

5. Capacity of gauges is large.

6. Time intervals are also recorded.

Disadvantages of recording rain gauges:

1. High initial investment cost.

2. Recording is not reliable when faults in gauge arise (mechanical or electrical) till faults are corrected.

Factors governing selection of site for rain gauge stations:

1. The site for rain gauge station should be an open space without the presence of trees or any covering.

2. The rain gauge should be properly secured by fencing.

3. The site for rain gauge station should be a true representation of the area which is supposed to give rainfall data.

4. The distance of any object or fence from the rain gauge should not be less than twice the height of the object or fence and in no case less than 30 m.

5. The rain gauge should not be set upon the peak or sides of a hill, but on a nearby fairly level ground.

6. The rain gauge should be protected from high winds.

7. The rain gauge should be easily accessible to the observers at all times.

Objective:-

1] To collect more information about Siphon Type rain gauge (Recording Type Rain Gauge).

2] To know component and working of Siphon Type rain gauge (Recording Type Rain Gauge).

3] To collect maximum information about Siphon Type rain gauge (Recording Type Rain Gauge).

Outcome:-

1] Understand component and working of Siphon Type rain gauge (Recording Type Rain Gauge).

2] Developed interest in subject.

3] Collect maximum information about this topic.

Web Resources:-

1] http://www.yourarticlelibrary.com/water/rainfall/types-of-rain-gauge-non-recording-and-recording-types/60407

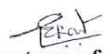2] http://www.navodayaengg.in/wp-content/uploads/2015/09/U1_L4-RAIN-GAUGES2.pdf

3] https://nptel.ac.in/courses/105101002/downloads/module1/lecture2.pdf

4] http://nptel.ac.in/courses/105107129/module3/lecture1/lecture1.pdf

Books:-

1] Engineering Hydrology' – Dr. K. Subramanya., -Tata McGraw Hill, New Delhi.

2] Hydrology – Dr. P Jayarami Reddy, Laxmi Publications, New Delhi.

3] Engineering Hydrology' – Dr. Raghunath H.M. - New Age International Publishers.

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Project Based Learning

Academic Year: 2016-17 Semester:- I / II   Course name: Materials Management

Sr.No	Project Title	Objectives	Outcomes	Roll numbers of the participants	Date of Completion	Remarks of Faculty
6	Types of Purchasing	To study various types of purchasing.	students are able to verify various types of purchasing.	26,27,28,29,30	23/02/2017	Presentation was given by students.
7	MRP	To know how MRP is working.	students to understand MRP cycle.	31,32,33,34,35	23/02/2017	Presentation was given by students
8	Safety stock determination	To know how safety stock is determined	students are able to determine safety stock.	36,37,38,39,40	23/02/2017	Presentation was given by students
9	JIT concept	To study JIT concept in detail.	students are able to use JIT concept in practical applic	41,42,43,44,45,46	23/02/2017	Presentation was given by students
10	ABC Analysis	To study how ABC analysis is carried out in Industry.	students are able to do analysis by using ABC	47,48,49,50,51,52	23/02/2017	Presentation was given by students.

Signature of the Faculty

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Project Based Learning

Academic Year: 2016-17 Semester:- I / II   Course name: Materials Management

Sr. No	Project Title	Objectives	Outcomes	Roll numbers of the participants	Date of Completion	Remarks of Faculty
1	Imm Concept	To understand the concept of Imm.	Students are able to answer the questions of Imm	1,2,3,4,5	23/02/2017	Presentation was given
2	Material cycle	To get knowledge about how mtrl cycle works.	Students are getting how mtrl cycle goes on.	6,7,8,9,10	23/02/2017	Presentation was given
3	make decision	To know how make decision takes place in Ind.	Students understand various factors of make decision	11,12,13,14,15	23/02/2017	Presentation was given
4	Buy decision	To know how buy decision takes place in Ind.	Student understand various factors regarding buy.	16,17,18,19,20	23/02/2017	Presentation was given
5	Financial aspects of make or buy decision	To study various aspects of make or buy decision	Students understood the aspects of make or buy decision.	21,22,23,24,25	23/02/2017	Presentation was given

Signature of the Faculty

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Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Project Based Learning

Program with code: MECHANICAL

Class: TE

Semester: VI

Academic Year: 2017-18

Course with code: INDUSTRIAL FLUID POWER

Project title :PNEUMATIC CYLINDER OPERATED DICKY

(wagonR)

f sing

Group Members:

Roll No	Name
06	BHONDAVE MRUNAL S.
07	BHOSALE SANYUKTA R.
13	DESHMUKH SNEHAL R.
29	KAMBLE KOMAL P.
33	KENJALE PRAJKTA R.
51	PAWAR VIDYA R.
57	SAWANT SAPANA R.
30	Karande pooja A.

Faculty Name and Designation:

Prof.Sawant K.H.

Assistant professor (Mechanical Department)

Objectives:

1)To study the pneumatic system in automobile cars.

2)To fill the gap between theory and practical.

Outcome:

- we got knowledge about how pneumatic system is used in the automobile cars.
- we also got the idea of dicky operated on pneumatic system.
- Through project based learning we applied our theory knowledge in practical.

Schedule:

Duration	Activity	Remark
1hrs	Working of pneumatic cylinder	
15min	Observation of process	
1:30hrs	Collecting information of pneumatic operating dicky	
2hrs	Report on pneumatic dicky	

Theory/Design/Methodology:___

How a gas spring works

The basic idea

A gas spring is a bit like a super-sturdy version of a bicycle pump, only it's filled with pressurized nitrogen gas (the major constituent of the air around us) and oil and completely sealed up so they can't escape. The gas allows the spring to store energy, while the oil damps (slows and smooths) the movement of the piston and also provides lubrication. Just like in a bicycle pump, there's a tight-fitting piston mounted on a rod that can slide back and forth inside a cylinder (made from heavy gauge steel, not light plastic as in a bicycle pump).

Push on a gas spring and you force the piston rod and piston into the cylinder and this compresses the gas. Stop pressing and let go and the pressure of the gas pushes the piston back out again. So far, that sounds just like a bicycle pump—but it's working in a different way. Unlike with a bicycle pump, gas inside the cylinder can actually flow through or around the piston from one side to the other as it moves back and forward. Exactly how this happens varies from one design of gas spring to another; usually the piston has one or more holes or valves in it. Now if the piston can move through the gas, you might think it isn't compressing the gas at all. But don't forget that the whole cylinder is completely sealed. When the piston rod is inside the

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cylinder, it's taking up room that the gas previously occupied. In other words, when a gas spring is fully pushed in, you've compressed the gas inside by an amount equal to the volume of the piston rod. If the piston rod occupies virtually the whole cylinder, you can see that the gas is getting compressed quite substantially. The gas pressure can be very high, typically up to about 170 times normal atmospheric pressure!

Piston enters cylinder   Nitrogen gas   Lubricating oil

Valves in piston let gas through

www.explainthatstuff.com
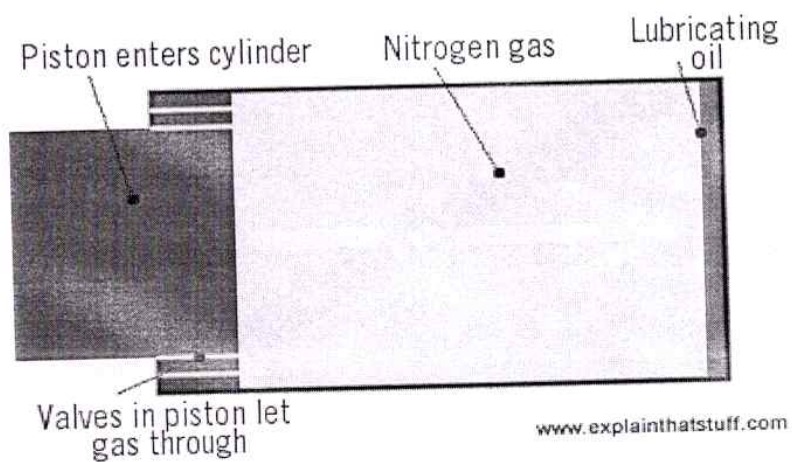
Working

Results Discussion

- we got knowledge about how pneumatic system is used in the automobile cars.
- we also got the idea of dicky operated on pneumatic system.
- Through project based learning we applied our theory knowledge in practical.

Conclusion _____

____Due to project based learning we get the idea about how actual working is done in pneumatic cylinder in automobiles.

References

Books

- *Hydropneumatic Suspension Systems* by Wolfgang Bauer. Springer, 2014. A detailed engineering guide covering springs, shock absorbers, and gas springs.

Patents

- US Patent 4,433,759: Gas spring by Hisao Ichinose, Nissan Motor Co. Ltd., February 28, 1984. A typical telescopic gas spring used on an automobile's hatch door.
- US Patent 4,309,026: Gas spring by Hermann Reuschenbach and Willi Schafer, January 5, 1982. A typical suspension-type gas spring with an automatic built-in braking system.
- US Patent 3,727,872: Column of an office chair by Albert Spieth and Rudolf Spieth, April 17, 1973. An ajustable and lockable gas spring for office chairs.
- US Patent 3,388,883: Hydropneumatic support column of adjustable length by Felix Wossner and Ludwig Axthammer. Fichtel & Sachs Ag., June 18, 1968. A gas-liquid spring for supporting tables, chairs, and so on.

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Project Based Learning

Program with code: 62702

Class: T.E(MECHANICAL)

Semester: VI

Academic Year: 2017-18

Course with code:ME311

Project title : DESIGN MODIFICATION AND FABRICATION OF HAND   PALLET

Group Members:

Roll No	Name
28	AKSHAY KALE
23	KIRAN JANGAM
36	DHANAJAY KUMBHAR
34	AMEY KULKARNI
47	SAHIL PATEL

Faculty Name and Designation: PROF.SAWANT.K.S.

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Objectives: To study of working principle of Hand Pallet.

1) To minimize man power while transporting of raw material.
2) To understand unique hazards of hand pallet operation.
3) Safe movement during stacking, picking and travelling with loads.
4) Material handling and perform complex tasks.
5) Load and unload material.
6) Transport load between small areas.
7) Improving safety factors related with transporting goods.
8) Increasing capacity of hand pallet jack by providing jack capacity.
9) To reduce price of hand pallet.

Outcome: To know the working principle of hand pallet and also collect information about hand pallet. To collect information about all part of hand pallet. Also see the assembly and disassembly of hand pallet.

Materials /Tools/Components /Equipments Used:

➤ TECHINICAL SPECIFICATION:
   1) Capacity – 2000 kg
   2) Lifting of height – 300 mm
   3) Overall length – 939.8 mm
   4) Wheel diameter – 342.9 mm
   5) Fork length – 1219.2 mm

➤ MATERIALS :
   1) Fork material – Mild steel
   2) Body material – Mild steel
   3) Tyre material – Rubber

➤ Mild steel
   ➤ cheap
   ➤ availability
   ➤ weld ability
   ➤ easily available

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SELECTION OF PIPE

➢ Square pipe
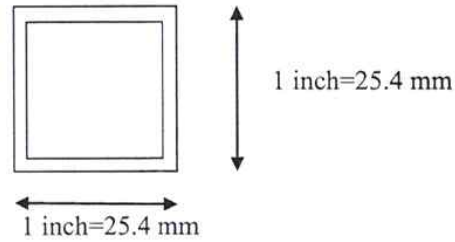
1 inch=25.4 mm

1 inch=25.4 mm

➢ easy manufacturing
➢ easy direction plotting
➢ continuous production is possible

1 inch=25.4 mm

1 inch=25.4 mm
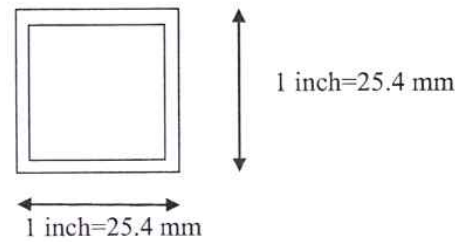
➢ easy manufacturing
➢ easy direction plotting
➢ continuous production is possible

Schedule:

Duration	Activity	Remark
13/02/2018	Planning	
15/02/2018	Information Gathring	
17/02/2018	Industry Visit and Calculation	
	And Data arrangment	
02/04/2018	Report Preparation and Submission	

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Theory/Design/Methodology

      A pallet jack, also known as a pallet truck, pallet pump, and pump truck is a tool used to lift and move pallets. Pallet jacks are the most basic form of a hand pallet and are intended to move heavy or light pallets within a warehouse. Hand pallet is modified structural machine of hydraulic manual hand pallet. Hand pallet is used in industries to transport heavy load but hand pallets are used in malls and warehouses to move limited weight capacity. Cost of hand pallet is much higher than other lifting devices.

      "Pascal's law simply states that when there is an increase in pressure at any point in confined fluid, there is an equal increase in pressure at every other point in the container."

$$\frac{F_2}{F_1} = \frac{A_2}{A_1}$$
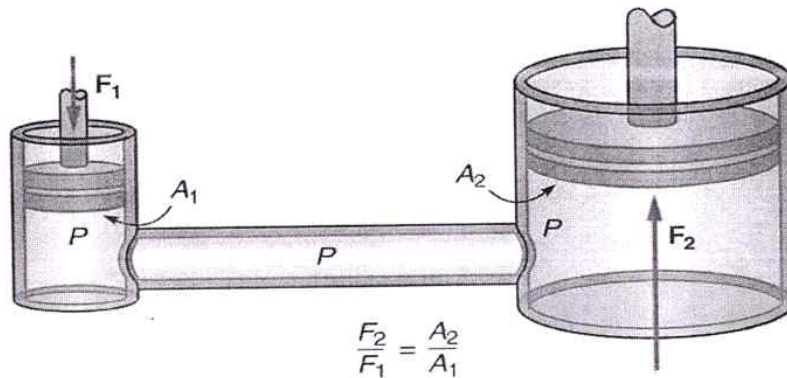
2D Drafting of hand pallet :-
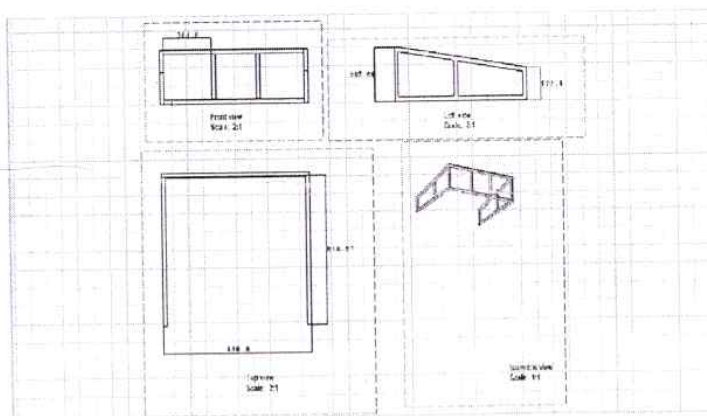
75

DESIGN OF FRAME STRUCTURE
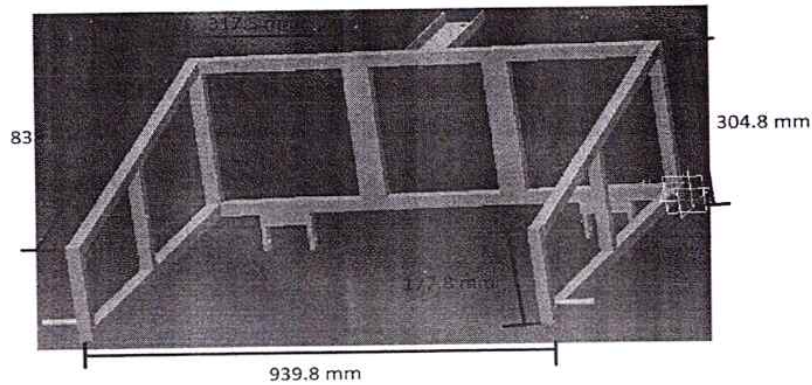
Results Discussion:

This project based learning part helps a lot to develop an reliable hand pallet to left heavy weights, Using this we are intended to move heavy or light pallets within a warehouse.

CONCLUSION

Our design uses extremely simple design and mechanism to achieve complex set of actions and its intended to limit the action of operators. The mechanical links and parts that have been fabricated are extremely simple.

The prepared mechanism has been successfully constrained and executed to carry out the required work of picking up the weight of the object to put them into the placed at different locations.
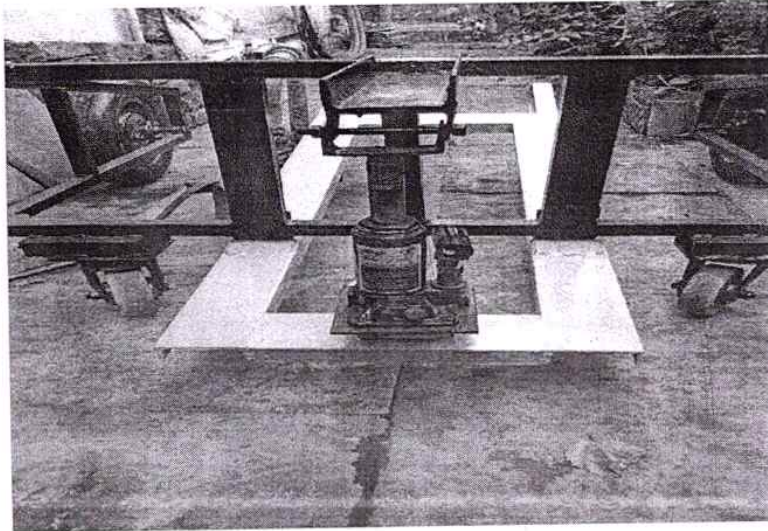
133

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References

1) **"Design Of Machine Elements"**- V.B Bhandari, Third Edition-Design Of Bearings, Design Of Shaft, Design Of Frame.Tata Mcgraw-Hill,(1994),Fifth Reprint 2011.

2) **"Mechanical System Design"**- R.B Patil, Second Edition- Design Of Frame.

3) **"Machine Design"**- N.D Bhatt, Second Edition- Design Of Shaft, Selection Of Bearing, Design Of Shaft.

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Photogrphs of visit :-

78
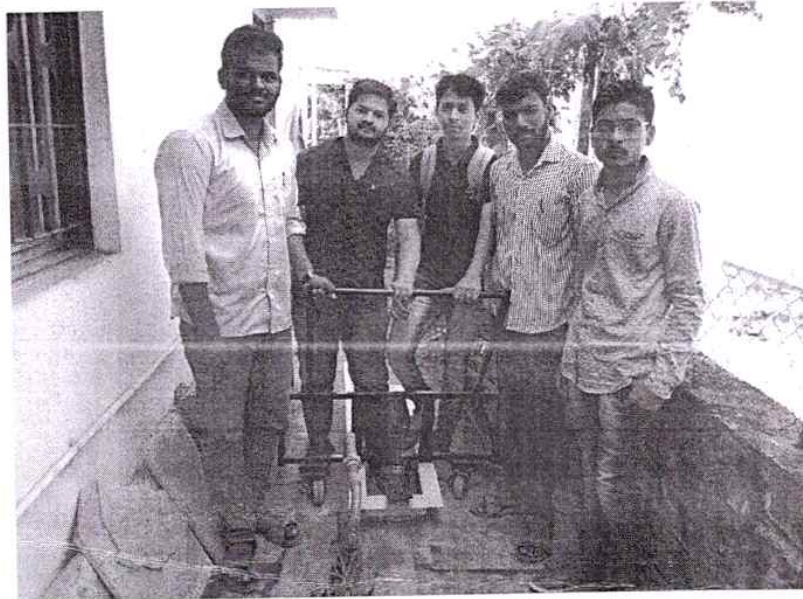
Pivoted Forks & bottle jack
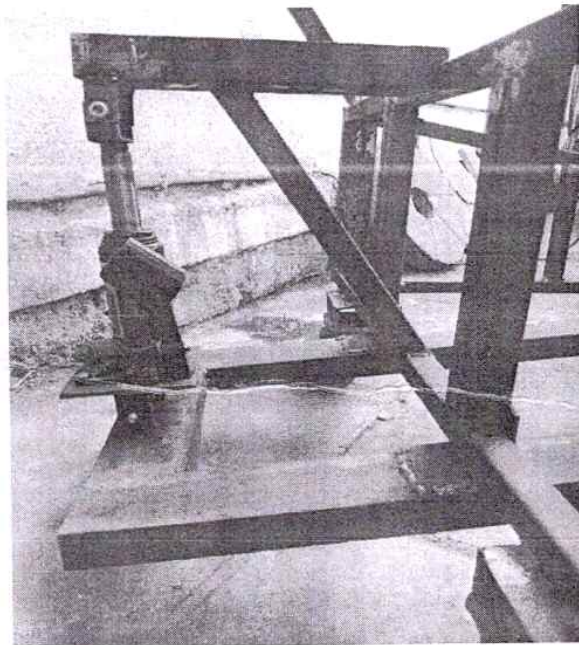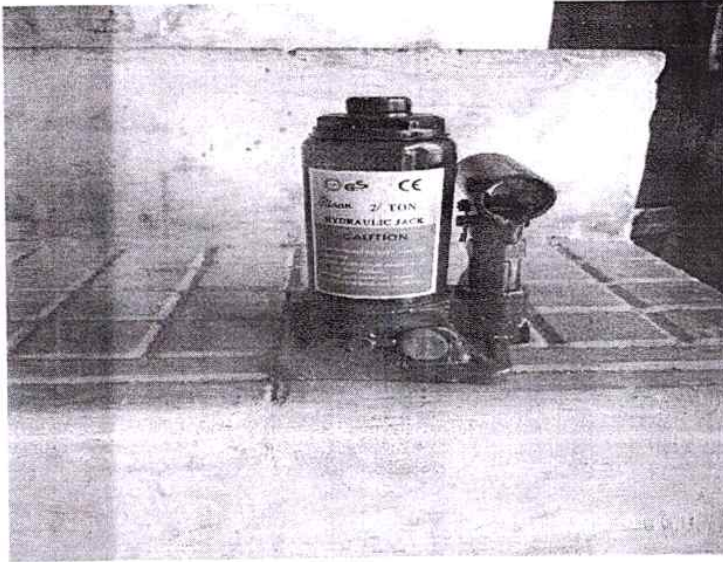
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Appendix 1

Following things can be enclosed as per the topic

1. Sample Data (if any)
2. Questionnaire (if any)
3. Data Sheet (if any)
4. Photographs
5. Program/code(if any)
6. Bill of material (if any)
7. PPT handouts (if any)

Thorat R.A , Hatle S.C .

Project Based Learning

Roll No.	First Name	Last Name	Project Name	Sign
EL2014001	Swati	Naykude		
EL2013002	Sonali	Chavan		
EL2013003	Ashwini	Ghorpade		
EL2014004	Ankita	Ghorpade		
EL2015005	Sayali	Bhorde	Study and Simulation of 3-φ SPWM inverter	S.A.S
EL2013006	Tejaswini	Burungale		Burngale.
EL2015007	Madhuri	Bhosale		
EL2015008	Varsha	Shinde		VRShinde
EL2014009	Pradnya	Barge		
EL2014010	Smita	Chitragar		
EL2014011	Kalyani	Bhosale		
EL2014012	Kajal	Mali		
EL2014013	Supriya	Suryawanshi		S.y.S
EL2014014	Pratiksha	Kadam		PKadam
EL2014015	Mamata	Indalkar		MIndalkar
EL2014016	Vrushali	Jadhav		VJadhav .
EL2012017	Deepak	Watkar		
EL2012018	Yogesh	Nikam		
EL2015020	Shubham	Rahate		
EL2015021	Devyani	Shelar	Study and Simulation of Buck converter .	Dshelar
EL2014022	Namrata	Pisal		Npsl
EL2014023	Pranit	Sakunde		
EL2014024	Ankita	Kamble		Kakamble
EL2015025	Anuradha	Yadav		Aadao
EL2014026	Sayali	Jadhav		Ryadhav
EL2014027	Varsha	Shinde		Shindey
EL2014028	Sweety	Ghorpade		-Ghorpade .
EL2013029	Swapnil	Khadake		Sbaf
EL2014030	Vinayak	Pol		VPol
EL2013031	Nagesh	Kamble		Nkamle
EL2014032	Abhinav	Dhanawade		Adhanawade
EL2014033	Shweta	Sapkal		SSapkal
EL2014034	Pooja	Tavate		PTavate
EL2014035	Ravina	Phadtare		Phadtare

EL2014036	Shivani	Pawar		
EL2014037	Swagata	Sawant		
EL2014038	Afrin	Bijali		
EL2014039	Ankita	Desai		
EL2013040	Akanksha	Deshpande	Study and Simulation of Boost Converter	
EL2013041	Shalaka	Jagtap		
EL2015042	Snehal	Pawar		
EL2013043	Shivani	Patil		
EL2012044	Merwyn	Silvera		
EL2014045	Akanksha	Mane		
EL2015046	Ashwita	Mane		
EL2014047	Shubhada	Patil		
EL2014048	Shreya	Dere		
EL2014049	Ankit	Shelar		
EL2013050	Pooja	Dounde		
EL2015051	Shweta	Bhapkar		
EL2015052	Pooja	Bhutkar		
EL2015053	Supriya	Kuchekar		
EL2015054	Sweety	Kumbhar		
EL2014055	KARAN	BARGE		
EL2014056	ANIKET	BHOSALE		
EL2014057	AMOL	DHUMAL		
EL2014058	SNEHAL	NALAGE		
EL2015059	YOGITA	CHAVAN		
EL2015060	SHIRISH	GOLE	study and simulation of PWM inverter	
EL2013061	SHIVANI	PATIL		
EL2013062	RAVINA	PATIL		
EL2014063	MRUNALINI	PISAL		
EL2013064	SHITAL	JAGTAP		
EL2014065	ADITYA	MANE		
EL2014066	KRISHNA	PAWAR		
EL2012067	ANIKET	KARANDE		
EL2012068	AVINASH	AVAGHADE		
EL2015069	TRUPTI	SHINDE		
EL2013070	SUPRIYA	THORAT		
EL2015071	VARSHA	MANE		
EL2012072	BHAGYASHRE	HERKAL		

EL2013073	VAIBHAV	KSHIRSAGAR		
EL2014074	DHAIRYASHEEL	MANE		
EL2013075	CHETAN	PAWAR		
EL2013076	ATUL	CHIKANE		
EL2014077	VARSHA	MANE		
EL2014078	POOJA	MATKAR	Study and	
EL2014079	SHEPHALI	BHANDWALKAR	Simulation of	
EL2014080	NUTAN	YADAV	Buck converter	
EL2013081	NIKHIL	POL		
EL2015082	CHETAN	YADAV		
EL2012083	PRUTHVIRAJ	SHELAR		
EL2015084	JAVED	MULLA		
EL2012085	ROSHAN	MESHRAM		
EL2012086	SURAJ	MADANE		
EL2012087	VAIBHAV	DABHADE		
EL2014088	AJAY	SHIRKE		
EL2014089	PREMKUMAR	NIKAM		
EL2014090	SURAJ	CHALKE	Study &	
EL2014091	NIKHIL	LOKHANDE	simulation	
EL2014092	ROHIT	GOLE	of	
EL2013093	NAYAN	MOHITE		
EL2013094	TEJESWINI	PAWAR	Boost	
EL2011095	VRUSHALI	SHINDE	converter	
EL2014096	PRACHI	MANE		
EL2014097	ROHIT	JAGTAP		
EL2014098	RAHUL	KADAM		
EL2012099	RUPALI	KHARAT		
EL2013100	POOJA	DHUMAL		
EL2014105	VAIBHAV	POTDAR		
EL2014108	PRASAD	PHADTARE		
EL2012107	NITIN	RAJE		
EL2014109	SEEMA	KHARAT		
EL2015111	MANDAR	VEDPATHAK		
EL2012112	CHAITALI	BHOSALE		

Raje
course coordinator

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KARMAVEER BHAURAO PATIL COLLEGE OF ENGINEERING, SATARA
Project Based Learning
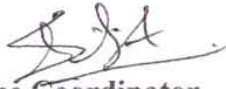### Program: Electronics Engineering
Class: T.E. (A)
Course: DSP

Academic Year 2016-17

Roll No	Name of student	Title of the Project
1	BARGE KARAN SAMPAT	Practical sampling and reconstruction circuit design using LF398 and 4th order Butterworth LPF filter.
2	BARGE PRADNYA H.	
3	BHAPKAR SHWETA SANJAY	
4	BHORDE SAYALI RAJENDRA	
5	BHOSALE ANIKET MOHAN	Study of the different manufacturers of the DSP processor for the different applications. Identify the different DSP manufacturers?. List the different types
6	BHOSALE KALYANI P.	
7	BHOSLE MADHURI SUBHASH	
8	BHUTKAR POOJA RAMESH	
9	BIJALI AFRIN MEHBUB	List the practical applications where the DFT/FFT is used with its manufacturer and features.
10	BURUNGALE TEJASWINI B	
11	CHAVAN YOGITA SUNIL	
12	CHITRAGAR SMITA DEVIDAS	
13	DERE SHREYA RAJENDRA	Designing and implementation of an anti-aliasing filter for ADCs in the frequency domain using TINA-TI.
14	DESAI ANKITA SHANTARAM	
15	DESHPANDE AAKANSHA M	
16	DHUMAL AMOL SANJAY	
17	DOUNDE POOJA PANDURANG	List the practical applications where the DFT/FFT is used with its manufacturer and features.
18	GHORPADE ANKITA MOHAN	
19	GHORPADE SWEETY R.	
20	GOLE SHIRISH SHANKAR	
21	INDALKAR MAMATA RAMESH	Filter Designs with Filter Designer TI WEBENCH
22	JADHAV SAYALI MOHAN	
23	JADHAV VRUSHALI DEEPAK	
24	JAGTAP ROHIT DATTATRAY	
25	JAGTAP SHALAKA VAMAN	Analog filter design using TINA-TI and MATLAB.
26	KADAM RAHUL YASHWANT	
27	KADAM PRATIKSHA L	
28	KAMBLE ANKITA ANIL	
29	KEVATE KIRAN SUBHASH	Analog filter using RLC and opamp : first order and second order.
30	KUCHEKAR SUPRIYA SATISH	
31	KUMBHAR SWEETY	
32	MALI KAJAL DINKAR	
33	MANE AKANKSHA SHIVAJI	Digital filter design using MATLAB: FDA tool, filter builder tool.
34	MANE ASHWITA VIJAY	
36	MULLA JAVED HANIF	
37	NALAGE SNEHAL SUNIL	
38	NIKAM PREMKUMAR M.	VHDL code converter for FIR filter using MATLAB and VHDL coder/System generator and simulation using ModelSim.
39	SILVERA MERWYN G.	
40	POPALE ASHISH GULAB	
41	GAIKWAD RAJESH SURESH	
42	YEWALE NIPUN UTTAM	Different FPGA based system available for signal processing application. List the
44	POTDAR VAIBHAV V.	

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45	PHADTARE PRASAD TATYASO	different FPGA manufacturers. List the
46	LOKHANDE NIKHIL VILAS	different FPGA boards/Chips with signal

Course Coordinator

KARMAVEER BHAURAO PATIL COLLEGE OF ENGINEERING, SATARA
Project Based Learning

Program: Electronics Engineering

Class: T.E.(B)

Course: DSP　　　　　　　　　　Academic Year 2016-17 (II)

Roll No	Name of student	Title of the Project
47	NAYKUDE SWATI ASHOK	Designing and implementation of an anti-aliasing filter for ADCs in the frequency domain using TINA-TI.
48	PATIL SHIVANI RAJESH	
49	PATIL SHUBHADA SHAHAJI	
50	PAWAR SHIVANI B.	
51	PAWAR SNEHAL RAJENDRA	List the practical applications where the DFT/FFT is used with its manufacturer and features.
52	PHADTARE RAVINA UDDHAV	
53	PISAL MRUNALINEE L	
54	PISAL NAMRATA SHARAD	
55	POL NIKHIL PANDURANG	Filter Designs with Filter Designer TI WEBENCH
56	RAHATE SHUBHAM TUKARAM	
57	SAKUNDE PRANIT SATISH	
58	SAPKAL SHWETA SURESH	
59	SAWANT SWAGATA PANDURANG	Practical sampling and reconstruction circuit design using LF398 and 4th order Butterworth LPF filter.
60	SHELAR ANKIT ASHOK	
61	SHELAR DEVYANI ATUL	
62	SHINDE TRUPTI SUBHASH	
63	SHINDE VARSHA PANDURANG	Analog filter using RLC and opamp : first order and second order.
64	SHINDE VARSHA RAJKUMAR	
65	SURYAWANSHI SUPRIYA Y.	
66	TAVATE POOJA RAJENDRA	
67	VEDPATHAK MANDAR NANDKUMAR	Digital filter design using MATLAB: FDA tool, filter builder tool.
68	YADAV ANURADHA AVINASH	
69	YADAV CHETAN RAMAKANT	
70	KAMBLE NAGESH RAMESH	
71	KHADAKE SWAPNIL SNAJAY	VHDL code converter for FIR filter using MATLAB and VHDL coder/System generator and simulation using ModelSim.
72	PATIL SHIVANI KIRAN	
73	CHAVAN SONALI MADHUKAR	
74	SHELAR PRUTHVIRAJ SURESH	
75	POL VINAYAK ANANDRAO	Different FPGA based system available for signal processing application. List the different FPGA manufacturers. List the different FPGA boards/Chips with signal
76	THORAT SUPRIYA BALASAHEB	
77	PATIL RAVINA DADASO	
78	KOLEKAR MINAL HANAMANT	
79	BIRARI CHAITRALI ROHINIKANT	Filter Designs with Filter Designer TI WEBENCH
80	DHUMAL POOJA RAJEDRA	
81	JAGTAP SHITAL	
82	MADANE SURAJ JAGTAP	
83	DABHADE VAIBHAV DATTATREY	Analog filter design using TINA-TI and MATLAB.
84	MESHRAM ROSHAN DHANRAJ	
85	HERKAL BHAGYASHREE S.	
86	MANE PRACHI DIPAK	
87	WATKAR DEEPAK G.	Study of the different manufacturers of the DSP processor for the different applications. Identify the different DSP manufacturers?. List the different types of the DSP processor
88	NIKAM YOGESH D.	
89	GOLE ROHIT M.	
90	SURYAWANSHI AVINASH S.	
91	GHATGE KULDIP S.	List the practical applications where the DFT/FFT is used with its manufacturer and features.
92	Mane Varsha J.	
93	JADHAV KOMAL MOHAN	

Course Coordinator

Sub: IP   BE (Electronics) 2016-17 (I).

Roll No	Name of the Students	Title of the Project
1	Arade Sushmita Subhash	Identify and List different type of cameras, their features and manufacturers.
2	Dhanawade Abhinav Vijay	
3	Jagtap Ashish Ashok	
4	Havaldar Komal Akram	
5	Deshmukh Pragati	
6	Kave Manisha sanjay	Extraction, understanding and management of the image metadata from the different images using different tools such as the Picture Information Extractor, ExifTool, https://readexifdata.com/ , http://metapicz.com/#landing .
7	Kasurde Nita sampat	
8	Bhilare Rutuja mohan	
9	Kadam Rajashree Ankush	
10	Shedage Pranita Subhash	
11	Sarda Komal Kishor	Extraction, understanding and management of the video metadata from the different videos using different tools such as dominion freeware, ExifTool, http://www.extractmetadata.com/ .
12	Shedage Swapnali	
13	Nadaf Sameer N	
14	Jadhav Akshay G	
15	Barge Abhishek C	
16	Jadhav Hindavi Kishor	Identification and Understanding of different Image processing softwares/ tools.
17	Patankar Poorva P	
18	Vhatkar Tejaswini B	
19	Pawar Shradha Sandesh	
20	Ghadge Asmita Ashok	
21	Ghadge Tejasjree	Study of the Applications of Image Enhancement Techniques, present one application as a case study using MATLAB.
22	Dhane Sneha Pradip	
23	Bodhe Shivanjali Mohan	
24	Hol Rasika Sanjay	
25	Gurav Agraja Chandrakant	
26	Kadam Mrunal Mohan	Apply Fourier Transform to the Black and White and RGB images and present the effect of the transformation with examples.
27	Bhosale Chaitali N	
28	Attar Sofiya Ansar	
29	Chavan Supriya Yuraj	
30	Kaple Priyanka Mohan	
31	Ingale Gitanjali popat	Identity and the list the processor/hardware used in the Image processing applications.
32	Kadam Kiran Tanaji	
33	Velapure Kalyani M	
34	Yadav Nutan Anil	
35	Shelke Snehal Rajendra	
36	Sutar Rohan	Perform the different image processing tasks using Adobe Photoshop.
37	Salunke Ganesh	
38	Mahadik Ganesh	
39	Phalke Shweta Rajendra	

40	Thorat Snehal	Perform the different image processing tasks using CorelDRAW®.
41	Mane Vishakha	
42	Pisal Pooja Vasant	
43	Potekar Sonali Shivaji	
44	Rananaware Kalyani M	
45	Yadav Pratiksha bhiku	
46	Jadhav Sayali	Identify and List different type of cameras, their features and manufacturers.
47	Kharat Seema	
48	Sankpal Aarti Laxman	
49	Shaikh Rizwin Sakubar	
50	Sabale Madhri Pandurang	
51	Mohite Shraddha Sanjay	Study of formation of images in convex lens and concave lens
52	Nikam Sharayu	
53	Patil Ashwini	
54	Pathan Karishma S	
55	Jadhav Varsha	
56	Suryawanshi Aishwarya.	Perform the different image processing tasks using Adobe Photoshop.
57	Date Himani Upendra	
58	Chavan Pallavi Kalyan	
59	Gaikwad Puja Sarjerao	
60	Sathe Sarika B	
61	Shaikh Zaid	Apply Fourier Transform to the Black and White and RGB images and present the effect of the transformation with examples.
62	Chincholkar Akash	
63	Shinde Tejaswini D.	
64	Pawar Pankaj S.	
65	Mane Akash S.	
66	Dhumal suraj sanjay	

Course Coordinator

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Rayat Shikshan Santhas

Karmaveer Bhaurao Patil College of Engineering Satara

Department of Electronics Engineering

Project Based Learning

Subject : Computer Network Sem:I	Div-A	Class: BE (2016-17)	

Roll No.	Name of Student	Batch	
1	ARADE SUSHMITA		
2	KASURDE NITA SAMPAT		
3	BHILARE RUTUJA MOHAN		
4	KADAM RAJASHREE ANKUSH		
5	DESHMUKH PRAGATI		
6	KAVE MANISHA SANJAY		
7	HAVALDAR KOMAL AKRAM		1. To establish connection between IPV6 and remote desktop.
8	JAGTAP ASHISH ASHOK		2. To establish connection between Two computers using LAN cable. 3. To study Firewalls for network Security
9	SHEDAGE PRANITA SUBHASH	A1	
10	SARDA KOMAL KISHOR		
11	SHEDAGE SWAPNALI		
12	NADAF SAMEER N		
13	JADHAV AKSHAY G		
14	BARGE ABHISHEK C		
15	JADHAV HINDAVI KISHOR		
16	DHANE SNEHA P.		
17	PATANKAR POORVA P		
18	VHATKAR TEJASWINI B		
19	PAWAR SHRADHA SANDESH		
20	GHADGE ASMITA ASHOK		
21	GHADGE TEJASJREE		
22	SHINDE TEJASWINI D.		
23	PAWAR PANKAJ S.		
24	MANE AKASH S.		
25	HOL RASIKA SANJAY		1. Design a network diagram using Visio 2013.
26	GURAV AGRAJA CHANDRAKANT		2. Case study: Study of Linux Kernel Networking Sub-system
27	KADAM MRUNAL MOHAN	A2	3. Experiment to get remote Assistance of Windows
28	DATE HIMANI UPENDRA		
29	CHAVAN PALLAVI KALYAN		
30	GAIKWAD PUJA SARJERAO		
31	CHAVAN SUPRIYA YURAJ		
32	BODHE SHIVANJALI		

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33	KAPLE PRIYANKA M(		
34	INGALE GITANJALI PUPAT		
35	KADAM KIRAN TANAJI		
36	VELAPURE KALYANI M	A3	1. To configure Static Routing using GNS3. 2. Case study: To study Python programming for Network Automation. 3. Exepriemtation on Encryption and Decryption of Video using Incusys File Shuffler
37	ATTAR SOFIYA ANSAR		
38	YADAV NUTAN ANIL		
39	SHELKE SNEHAL RAJENDRA		
40	SUTAR ROHAN		
41	SALUNKE GANESH		
42	MAHADIK GANESH		
43	PHALKE SHWETA RAJENDRA		
44	DHANAWADE ABHINAV VIJAY		
45	THORAT SNEHAL		
46	MANE VISHAKHA		
47	PISAL POOJA VASANT		
48	POTEKAR SONALI SHIVAJI		
49	RANANAWARE KALYANI M		
50	YADAV PRATIKSHA BHIKU	A4	1. To establish connection between IPV6 and remote desktop. 2. To establish connection between Two computers using LAN cable. 3. To study Firewalls for network Security
51	JADHAV SAYALI		
52	KHARAT SEEMA		
53	SANKPAL AARTI LAXMAN		
54	SHAIKH RIZWIN SAKUBAR		
55	SABALE MADHRI PANDURANG		
56	MOHITE SHRADDHA SANJAY		
57	NIKAM SHARAYU		
58	PATIL ASHWINI		
59	PATHAN KARISHMA S		
60	JADHAV VARSHA		
61	SURYAWANSHI AISHWARYA.		
62	SATHE SARIKA B		
63	SHAIKH ZAID		
64	CHINCHOLKAR AAKASH		

Mr. Lokhande S. S.

Course Coordinator.

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Roll No.	First Name	Last Name	Name of project
EL2015001	Madhuri	Barge	
EL2014002	Anuradha	Bhosale	
EL2016003	Riddhi	Chalke	MATLAB based joint probability distribution
EL2015004	Anjali	Chavan	
EL2014005	Ashwini	Chavan	
EL2015006	Mayuri	Chavan	
EL2014007	Megha	Chavan	
EL2016008	Amruta	Chivale	MATLAB based conditional probability distribution
EL2014009	Swapnali	Desai	
EL2016010	Mrunal	Deshmukh	
EL2015011	Pratik	Deshmukh	
EL2016012	Vijay	Dhage	
EL2015013	Mayuri	Disale	MATLAB based cumulative distribution function
EL2015014	Prajakta	Dixit	
EL2015015	Trupti	Gaikwad	
EL2016016	Sakshi	Garge	
EL2015017	Nikita	Ghadge	
EL2015018	Pratiksha	Ghadge	MATLAB based probability density function
EL2015019	Bhagyashri	Golsar	
EL2016020	Namrata	Gore	
EL2016021	Sapana	Gujar	
EL2016022	Priyanka	Ingawale	
EL2016023	Asmita	Jadhav	MATLAB based joint cumulative distribution function
EL2015024	Nikita	Jadhav	
EL2014025	Pooja	Jadhav	
EL2015026	Priya	Jain	
EL2015027	Prerana	Jawale	
EL2014028	Diksha	Kadam	MATLAB based probability distribution function
EL2015029	Pranav	Kalbhor	
EL2016030	Aniket	Kambale	
EL2016031	Arbaz	Kazi	
EL2015032	Siddhi	Khadsare	
EL2013033	Diksha	kambale	MATLAB based Rayleigh distribution function
EL2013035	Saish	Ghodke	
EL2015036	Ashutosh	Kadam	
EL2014037	Akshay	Dhane	
EL2015038	Sanjeevani	Patil	
EL2015039	Gaurav	Virkar	MATLAB based Gaussian distribution function
EL2005040	Sanjay	Borate	
EL2014042	Tejas	Bhilare	
EL2016043	Snehal	Dixit	
EL2016044	Mrunal	Karche	MATLAB based probability distribution function
EL2016044	Mrunal	Karche	

Dr.Kanse Y.K.

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Project Based Learning Activity

Class: T.E Mechanical   (2017-18)

Sub: Industrial Fluid Power
Name of Faculty: Prof. Sawant K. H.

Group	Roll No	Name of Student	PBL	Title of PBL
1	4	BASWANT RAVIRAJ SUBHASH	24/2/2018	Excavator
	31	KARANDE SWAPNIL D.	24/2/2018	Excavator
	39	MANGRULE PRASAD PRAKSH	24/2/2018	Excavator
	42	MORE NITIRAJ NIWAS	24/2/2018	Excavator
	56	SAWANT AKASH SANJAY	24/2/2018	Excavator
	61	SHIRKE RAJESH JAYWANT	24/2/2018	Excavator
2	10	CHAVAN SHRADDHA ISHWAR	1/4/2018	Fuel Dispensor
	14	DHADAME SHIVANJALI S.	1/4/2018	Fuel Dispensor
	69	KORE SARASWATI A.	1/4/2018	Fuel Dispensor
	70	MANE AVINASH N.	1/4/2018	Fuel Dispensor
3	16	GHADAGE DHIRAJ DHANARAJ	20/3/2018	Hyd. Acuator
	19	JADHAV GANESH AJAY	20/3/2018	Hyd. Acuator
	26	KADAM SURAJ	20/3/2018	Hyd. Acuator
	27	KAJALE AKSHAY TULSHIRAM	20/3/2018	Hyd. Acuator
	48	PATIL OMKAR SANJAY	20/3/2018	Hyd. Acuator
	53	POL OMKAR CHANDRAKANT	24/2/2018	Hyd. Acuator
	62	SIRSAT VIKAS SHRIHARI	20/3/2018	Hyd. Acuator
4	5	BHANAGE PRATHMESH SANJAY	22/3/2018	Hyd. Lifter
	40	MOHITE PRANAV BHAUSAHEB	22/3/2018	Hyd. Lifter
	44	NADAF SUHEL SHEKHLAL	22/3/2018	Hyd. Lifter
	46	PANASKAR SANKET V.	22/3/2018	Hyd. Lifter
	55	RAUT OMKAR MANAJI	22/3/2018	Hyd. Lifter
	59	SHINDE SAHIL SANJAYKUMAR	22/3/2018	Hyd. Lifter
	60	SHINDE SHAILESH	22/3/2018	Hyd. Lifter
5	23	JANGAM KIRAN RAMCHANDRA	17/2/2018	Hyd. Pallet Lifter
	28	KALE AKSHAY SOPAN	17/2/2018	Hyd. Pallet Lifter
	34	KULKARNI AMEY	17/2/2018	Hyd. Pallet Lifter
	36	KUMBHAR DHANAJAY	17/2/2018	Hyd. Pallet Lifter
	47	PATEL SAHIL	17/2/2018	Hyd. Pallet Lifter
6	37	LAD SHIVAM	2/3/2018	Hyd. Pavers M/c
	43	MULLA SAHIL RAJJAK	2/3/2018	Hyd. Pavers M/c
	64	TARANGE MADHAV SHIVAJI	2/3/2018	Hyd. Pavers M/c
7	6	BHONDAVE MRUNAL SATISH	1/4/2018	Pne. Cyl. Op. Decky
	7	BHOSALE SANYUKTA R.	1/4/2018	Pne. Cyl. Op. Decky
	13	DESHMUKH SNEHAL R.	1/4/2018	Pne. Cyl. Op. Decky
	29	KAMBLE KOMAL PANDURANG	1/4/2018	Pne. Cyl. Op. Decky
	30	KARANDE POOJA ANANDRAO	1/4/2018	Pne. Cyl. Op. Decky
	33	KENJALE PRAJAKTA R.	1/4/2018	Pne. Cyl. Op. Decky
	51	PAWAR VIDYA RAJENDRA	1/4/2018	Pne. Cyl. Op. Decky
	57	SAWANT SAPANA RAJENDRA	1/4/2018	Pne. Cyl. Op. Decky
8	1	BAGWAN SHAHABAZ SHAKIL	20/3/2018	Pne. HP Pump
	2	BAGWAN SUHEL HAIDAR	20/3/2018	Pne. HP Pump
	11	CHAWADIWALE MUAAJ AKIL	20/3/2018	Pne. HP Pump
	17	INAMDAR SOHAIL ASHFAQUE	20/3/2018	Pne. HP Pump
	18	**JADHAV ABHISHEK SUNIL**	20/3/2018	Pne. HP Pump
	35	KUMBHAR AMAR PANDURANG	20/3/2018	Pne. HP Pump
	45	NIKAM AJAY GHANSHYAM	20/3/2018	Pne. HP Pump
9	21	JAGTAP GIRISH VIJAY	28/3/2018	Pne. Tyre Press M/c
	25	KADAM CHANDAN RAJENDRA	28/3/2018	Pne. Tyre Press M/c
	32	KARANJKAR OMKAR V.	28/3/2018	Pne. Tyre Press M/c

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Course name: Energy and Power Engineering (ME 409)

Course Teacher: Prof. Miss Shivdas R.K

Name of the Activity: Report Presentation on Recent Trends in Renewable Energy Source

Objective:
1. To Identify Renewable Energy Sources
2. To Present Recent trends in different energy sources.

Outcome:
Students would be able to
1. Identify Renewable Energy Sources
2. Illustrate/Demonstrate renewable energy source power plants
3. Present power scenario of Renewable energy sources

Activity Conduction Details:

Students studied the Different Renewable Energy Sources and Case Studies presenting recent power scenario of India and world .Students presented recent trends in any one Renewable Energy Source.

Number of Participants:

Total No. of Students 77 (5 Students in 1 group)

Attachments:
        List of participants
        PPT Handouts

Signature of the Faculty

Mechanical Engineering Department
K.B.P College of Engineering, Satara

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KARMAVEER BHAURAO PATIL COLLEGE OF ENGINEERING, SATARA

DEPARTMENT OF MECHANICAL ENGINEERING

Project Based Learning Activity

Academic Year :- 2017-18

Branch :- Mechanical

Name of Course/Code/Course Teacher: - MACHINE DESIGN-I/ME 304 /Prof. Pawar P.P.

Group. No.	Student name	Roll No.	Topic Name	Objective	Outcome	Remarks
1	BAGWAN SHAHABAZ SHAKIL	1	Knuckle Joint	To study design of knuckle joint	Students should able to understand the design of knuckle joint	Completed
	BAGWAN SUHEL HAIDAR	2				
	SAWANT AKASH SANJAY	56				
	BASWANT RAVIRAJ SUBHASH	4				
	MANGRULE PRASAD PRAKSH	39				
	SHIRKE RAJESH JAYWANT	61				
	MORE NITIRAJ NIWAS	42				
2	NIKAM AJAY GHANSHYAM	45	Design of Springs	To study design of Springs	Students should able to recognize design procedure for springs.	Completed
	INAMDAR SOHAIL ASHFAQUE	17				
	CHAWADIWALE MUAAJ AKIL	11				
	JADHAV ABHISHEK SUNIL	18				
	MOHITE PRANAV BHAUSAHEB	40				
	JANGAM KIRAN SOPAN	23				
	SHINDE SAHIL SANJAYKUMAR	17				
3	PANASKAR SANKET V.	46	Welded Joints	To study welded Joints.	Students should able to understand welded Joints.	Completed
	GHADAGE DHIRAJ DHANARAJ	16				
	JADHAV GANESH AJAY	19				
	JADHAV VIKAS	20				
	PATIL OMKAR SANJAY	48				

	KAJALE AKSHAY TULSHIRAM	27				
	KALE AKSHAY SOPAN	28				
	NADAF SUHEL SHEKHLAL	44				
	WAGH ROHIT ARJUN	66				
	YADAV DHANAJI SHIVAJI	67				
	KADAM SURAJ	26				
	JIRANGE PARAG	24				
	KULKARNI AMEY	34				
4	KUMBHAR DHANAJAY	36	Design of Shaft	To study function & design of Shaft	Students should able to recognize design procedure for Shaft.	Completed
	SAYYED JAID	58				
	JADHAV VIKAS	20				
	SHINDE SHAILESH	60				
	LAD SHIVAM SHANKARRAO	37				
	MAHAMUNI OMKAR SUNIL	38				
	KAMBLE KOMAL PANDURANG	29				
5	MOHITE RUSHIKESH RAJENDRA	41	Design of key	To study design of key	Students should able to understand design of key	Completed
	MULLA SAHIL RAJJAK	43				
	TARANGE MADHAV SHIVAJI	64				
	SIRSAT VIKAS SHRIHARI	62				
	BHONDAVE MRUNAL SATISH	6				
	BHOSALE SANYUKTA R.	7				
	DESHMUKH SNEHAL R.	13				
6	PAWAR VIDYA RAJENDRA	51	Design of Couplings	To study function & design of Couplings	Students should able to recognize function & design of Couplings	Completed
	SAWANT SAPANA RAJENDRA	57				
	KORE SARASWATI A.	69				
	CHAVAN SHRADHA ISHWAR	10				
	DHADAME SHIVANJALI S.	14				

Signature of the Faculty

Rayat Shikshan Sanstha's

Karmave **Bhaurao Patil College of Engineering, Satara**

Project Based Learning Activity
(2017-18)

Program: Mechanical Engineering   **Course:** Industrial Product Design (ME 405B)   **SEM:** VII
Class: B.E. Mechanical   **Course Coordinator:** Prof. Waydande R.P

GROUP NO.	Students Name	Roll No.	Topic for Presentation	Date of presentation	Objective Success and Decrease in sales reasons of companies presented:	Remark
1	BALLAL RAHUL RAVINDRA	1	Product development Road map of laptops	4/9/17	Case study of IBM company	completed
	BARGE SANKET SANJAY.	2				
	BARTAKKE SURAJ NAMDEV.	3				
	BAVALEKAR ABHISHEK ARUN.	4				
	BHANDARE RUSHABH RAJENDRA.	5				
2	JADHAV SHUBHAM SANJAY.	23	Product development Road map of Cameras	11/9/17	Case study of kodak company	completed
	JAMDAR ROHIT YASHWANT	24				
	JIRANGE AKSHAY ANIL	25				
	JOSHI NIKITA SACHIN.	26				
	KACHARE ARCHANA ADHIKRAO.	27				
3	NADAF SUMAIYYA SHAHAJAHAN	42	Product development Road map of Nokia mobiles	11/9/17	Case study of Nokia mobiles	completed
	NALAWADE AKSHAY BHANUDAS	43				
	NALAWADE PRADIP SHRIRANG.	44				
	NANEGAONKAR PRIYANKA JALINDAR.	45				
4	RAJPUT KARANSINH RAJENDRA.	58	Product development of light bulbs	4/9/17	case study of Crompton company	completed.
	RANJANE PRATHAMESH SUNIL	59				
	SABALE SHIVANI KIRAN	60				
	SABALE NAVNATH SAMBHAJI.	61				
	SADAPHULE AKSHAY EKNATH	62				

Course Teacher: **HOD**

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Project Based Learning

Academic Year: 2016-17   Semester:- **I**   Course name: **Programming Lab-II Course Code: CS144L06**

Sr. No	Project Title	Objectives	Outcomes	Roll numbers of the participants	Date of Completion	Remarks of Faculty
1	Video Library Management systems	To learn the C++ concepts used to build the applications	Application is created by implementing and encapsulating the various concepts of C++	1,2,3,4	23/3/17	completed
2	Quiz game	To learn the C++ concepts used to build the applications	Application is created by implementing and encapsulating the various concepts of C++	5,6,7,8	15/3/17	completed
3	Student Management	To learn the C++ concepts used to build the applications	Application is created by implementing and encapsulating the various concepts of C++	9,10,11,12,13	15/3/17	completed
4	Hospital Management System	To learn the C++ concepts used to build the applications	Application is created by implementing and encapsulating the various concepts of C++	14,15,16,17	25/3/17	completed
5	Super Market Billing Project	To learn the C++ concepts used to build the applications	Application is created by implementing and encapsulating the various concepts of C++	18,19,20,21	26/3/17	completed
6	Laboratory Management Systems	To learn the C++ concepts used to build the applications	Application is created by implementing and encapsulating the various concepts of C++	22,23,24,25	24/3/17	completed

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7	Movie Ticket Reservation	To learn the C++ concepts used to build the applications	Application is created by implementing and encapsulating the various concepts of C++	26,27,28,29	23/3/17	completed
8	Air ticket Reservation	To learn the C++ concepts used to build the applications	Application is created by implementing and encapsulating the various concepts of C++	30,31,32,33	25/3/17	completed
9	Bus Pass System	To learn the C++ concepts used to build the applications	Application is created by implementing and encapsulating the . various concepts of C++	34,35,36,37	26/3/17	completed
10	Pianno using Graphic Interface	To learn the C++ concepts used to build the applications	Application is created by implementing and encapsulating the various concepts of C++	38,39,40,41	24/3/17	completed
11	Telephone Billing System	To learn the C++ concepts used to build the applications	Application is created by implementing and encapsulating the various concepts of C++	42,43,44,45,46	26/3/17	completed
12	Calculator	To learn the C++ concepts used to build the applications	Application is created by implementing and encapsulating the various concepts of C++	47,48,49,50	15/3/17	completed
13	Palindrome	To learn the C++ concepts used to build the applications	Application is created by implementing and encapsulating the various concepts of C++	51,52,53,54	15/3/17	completed
14	Hospital Management Systems	To learn the C++ concepts used to build the applications	Application is created by implementing and . encapsulating the various concepts of C++	55,56,57,58	26/3/17	completed
15	Contact Management	To learn the C++	Application is created by	59,60,61,62	15/3/17	

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	System	concepts used to build the applications	implementing and encapsulating the various concepts of C++			
16	Calendar Application	To learn the C++ concepts used to build the applications	Application is created by implementing and encapsulating the various concepts of C++	63,64,65,66	15\3\17	completed
17	Customer Billing Systems	To learn the C++ concepts used to build the applications	Application is created by implementing and encapsulating the various concepts of C++	67,68,69,70,71	28\3\17	completed
18	Personal Diary Management Systems	To learn the C++ concepts used to build the applications	Application is created by implementing and encapsulating the various concepts of C++	72,73,74,75	15\3\17	completed
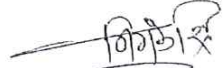
Signature of the Faculty

Project Based Learning

Academic Year: 16-17 Semester:- I / II Course name: Computer Algo.

Sr.No	Project Title	Objectives	Outcomes	Roll numbers of the participants	Date of Completion	Remarks of Faculty
1.	Implement and find the time and space complexity of : Merge Sort			Roll No. 1 to5	19/07/2016	Implement in c. Avarage
2.	Implement and find the time and space complexity of : Quick Sort			6 to 10	26/07/16	Good
3.	Implement and find the time and space complexity of : Binary Search	1. To understand working of assign algorithm	1. Able to analyze assign algorithm	11 to 15	02/08/16	Good
4.	Implement and find the time and space complexity of : Selection Sort	2. To Implement assign Algorithm 3. To Discuss given algorithm	2. Able to solve different real time problem 3. Able to analyze complexity	16 to 20	09/08/16	Excellent
5.	Implement and find the time and space complexity of : All pair Shortest Path algorithm			21 to 25	02/08/16	Excellent
6.	Implement and find the time and space complexity of : Multistage Graph			26 to 30	10/8/16	Good
7.	Implement and find the time and space	1. To understand working of assign	1. Able to analyze assign algorithm	31 to 35	24/08/16	Average

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	~~complexity of : TSP~~ Problem	~~algorithm~~ 2. To Implement assign Algorithm 3. To Discuss given algorithm	~~2. Able to solve~~ different real time problem 3. Able to analyze complexity				
8.	Implement and find the time and space complexity of : Bubble Sort			36 to 40	7|5|2016	Avarage	
9.	Implement tower of Hanoi Problem			41 to 45	4|8|2016	Not good	
10.	Implement and find the time and space complexity of : Min max Algorithm			46 to 50	25|8|16	good	
11.	Implement and find the time and space complexity of : Reliability Design Problem			51 to 60	1|9	good	
12.	Implement Graph Coloring Problem			61 to 70	21|08	Good	
13.	Implement Hamiltoian Cycle Problem			66 to 70	20|08	~~Good~~ Excellent	
14.	Implement 8 queen Problem			71 to 75	19|9	Good	
15.	Implement Solution for kanp sack problem			76 to 80	27|9	Good.	

Signature of the Faculty

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Academic Year: 2016-17 Semester:- I Course name: Advanced Database Systems Course Code: CS167L03

Sr.No	Project Title	Objectives	Outcomes	Roll numbers of the participants	Date of Completion	Remarks of Faculty
1.	To implement Centralized Database System for Bus/ Air/ Travels Reservation	To Implement Centralized database	Able to apply knowledge to solve real time problem	1,2,3,4,5	25|9|16	completed
2.	To implement Centralized Database System for Student Data Collection / Employee data collection	To Implement Centralized database	Able to apply knowledge to solve real time problem	6,7,8,9,10	26|9|16	completed
3.	To implement Centralized Database System for Bus/ Air/ Travels Reservation	To Implement Centralized database	Able to apply knowledge to solve real time problem	11,12,13,14,15	27|9|16	completed
4.	To implement Centralized Database System for Bus/ Air/ Travels Reservation	To Implement Active database	Able to Create Active Database	16,17,18,19,20	25|9|16	completed
5.	To implement Active Database System for Doctor Appointment Booking	To Implement Active database	Able to Create Active Database	21,22,23,24,25	30|9|16	completed
6.	To implement Active Database System for Library Management	To Implement Active database	Able to Create Active Database	26,27,28,29,30	29|9|16	completed
7.	To implement Active Database System for Distributors	To Implement Active database	Able to Create Active Database	31,32,33,34,35	30|9|16	completed
8.	To implement Distributed Database System for Employee Management	To Implement Distributed database	Able to Create Distributed Database	36,37,38,39,40	29|9|16	completed
9.	To implement Distributed Database System for electronic store	To Implement Distributed database	Able to Create Distributed Database	41,42,43,44,45	30|9|16	completed

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RAYAT SHIKSHAN SANSTHA'S

KARMAVEER BHAURAO PATIL COLLEGE OF ENGINEERING, SATARA.

DEPARTMENT OF CIVIL ENGINEERING
ACTIVITY REPORT OF THE SUBJECT
"ENGINEERING MANAGEMENT"

SUBMITTED BY,

1. Mr.Chavan Sushant S. (05)
2. Mr.Deshpande Aditya A. (07)
3. Mr.Sawant Sushant M. (47)
4. Mr.Shelar Ajay K. (48)
5. Mr. Zanjurne Sourabh S. (52)

UNDER THE GUIDANCE OF,

PROF.BONDE S.D.

YEAR 2017-2018

faculty
Fr. sing.

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❖ INTRODUCTION

An assignment was given to us to visit construction site & write a Report. Following were its objectives.

❖ OBJECTIVES

✓ To get an idea about how management principles& functions followed on actual construction site.

✓ To develop our report writing skills.

❖ BUILDING SITE

The building site we chose for visiting was construction of industrial building. The information about the site is as follows:

- **Place of the visit:** KAY BOUVET ENGG. LTD
- **Address:** KAY BOUVET ENGG. LTD (unit 3), 854, old MIDC, Satara.
- **Date & time of visit:** 21 march 2018 11:30am
- **Guide:**ER. Sawant.M.A.

We the students of T.E. civil of Karmaveer Bhaurao Patil college of Engineering, Satara visited the above mentioned construction site under the subject construction management to study how the principles & functions of management are carried out on the site.

Following questions we asked them during our visit:

Q.1 What construction procedures do you carry out before starting for actual work?

ANS: First the suitable site is selected. Then architectural & structural drawings were made & approved from respective authorities. All the paper work & agreements were completed & then we started for actual work.

Q.2 Which functions of management was considered during execution of work?

ANS: Following functions of management were considered during construction activity

1. Planning

2. Organizing

3. Directing

4. Controlling

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Q.3 During planning which factors were considered?

ANS:In planning main objective was that the work should be completed in the given time for this proper management of men and material was done.

Proper planning during construction leads to achieve goal in given time.

Q.4 What safety measures were considered during construction for workers?

ANS: Workers were provided helmet and shoes and also some medical facilities were provided if any accident happens.

Q.5 What measure were considered when any critical situation arises?

ANS: During critical situation proper consultant was taken from the RCC designer & architect.

Q.5 As per the management was the work completed during that time period?

ANS: Yes the work was completed in due time as per the management.

Q.6 Which software were used for construction management?

ANS: Primavera & ERP Software was used.

Q.7 How do you know when a construction project is well executed?

ANS:At the end of the each week we check that the amount of work completed during that week is according to the plan.

Q.8 which departments are involved in completion of project?

ANS: We have categorized our project into following departments
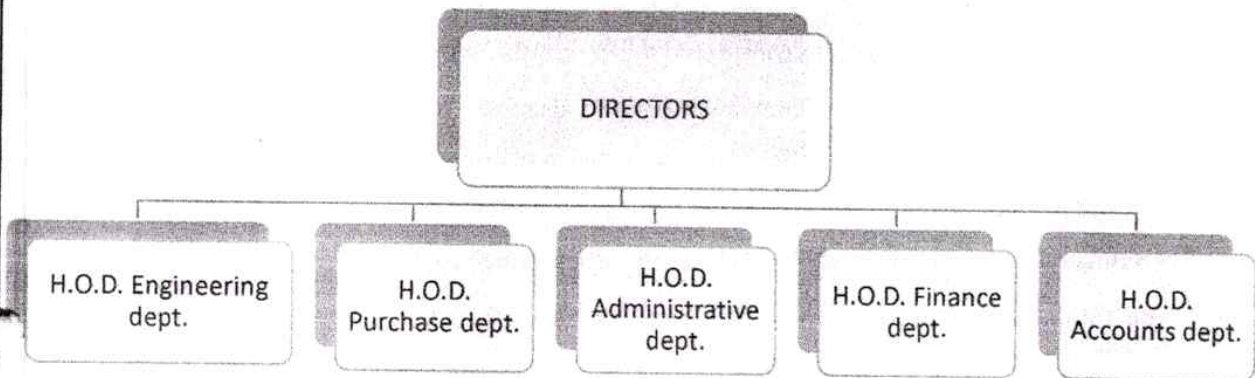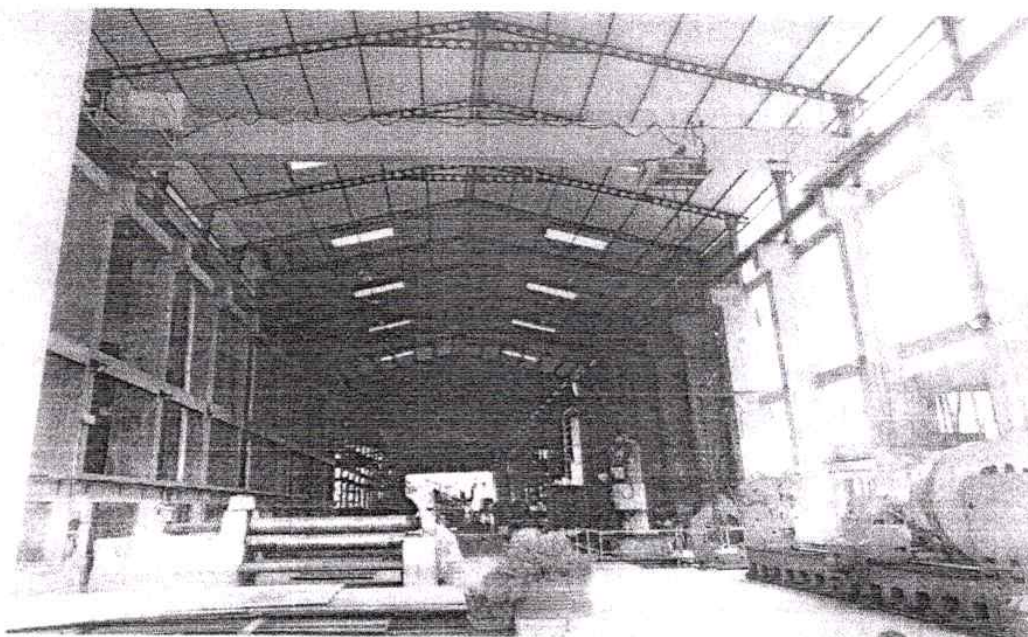
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                            DIRECTORS
   ┌──────────┬──────────┬──────────┬──────────┬──────────┐
H.O.D.      H.O.D.      H.O.D.      H.O.D. Finance   H.O.D.
Engineering Purchase    Administrative  dept.    Accounts dept.
dept.       dept.       dept.
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Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Project Based Learning

Academic Year: _____   Semester:- I / II   Course name: _____

Sr. No	Project Title	Objectives	Outcomes	Roll numbers of the participants	Date of Completion	Remarks of Faculty
5	VED Analysis	To learn how analysis is carried out	They are able to to analysis by using VED.	21,22,23,24,25	18/09/17	Presentation was given by students
6	Inventory models	To study various Inventory models	They are able to differentiate various models	26,27,28,29,30	18/09/17	Presentation was given by students
7	Types of maintenance system	To learn diff. types of maintenance system.	They are able to use maintenance system.	31,32,33,34	18/09/17	Presentation was given by students
8	Logistic Engineering	To study logistic engineering.	They are able to answer about logistic engg.	35,36,37	18/09/17	———— '' ————

Signature of the Faculty

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Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Project Based Learning

Academic Year: 2017-18 Semester:- I / II   Course name: Production & operation management

Sr.No	Project Title	Objectives	Outcomes	Roll numbers of the participants	Date of Completion	Remarks of Faculty
1	Types of Prodⁿ sys.	To study diff. types of production sys	They are able to select prodⁿ sys. according to application	1,2,3,4,5	18/09/17	Presentation was given by students
2	Scheduling Process	To study scheduling process.	They are able to carry out process.	6,7,8,9,10	18/09/17	Presentation was given by students
3	Sequencing process	To study sequencing process.	They are able to do sequencing	11,12,13,14,15	18/09/17	Presentation was given by students
4	Capacity Planning &	To study capacity & Aggregate planning	They are able to differentiate betⁿ Capa & Aggre. planning	16,17,18,19,20	18/09/17	Presentation was given by students
5	Aggregate Planning					

Signature of the Faculty

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10.	To implement Distributed Database System for retailer	To Imp____nt Distributed database	Able to Create Distributed Database	46,47____9,50	26/9/16	completed
11.	To implement Distributed Database System for entire college	To Implement Distributed database	Able to Create Distributed Database	51,52,53,54,55	27/9/16	completed
12.	To implement XML Database System of Student/faculty Information	To Implement XML database	Able to Create XML Database Able to apply Query Transformation	56,57,58,59,60	25/9/16	completed
13.	To implement XML Database System of Book Information	To Implement XML database	Able to Create XML Database Able to apply Query Transformation	61,62,63,64,65	26/9/16	completed
14.	To implement XML Database System of gadget info	To Implement XML database	Able to Create XML Database Able to apply Query Transformation	66,67,68,69,70	25/9/16	completed
15.	Implement any database with proper authorization and security	To study Database Security and Authorization	Able to apply Database Security and Authorization	70 ,72,73,74,75,76	30/9/16	completed

Signature of the Faculty

Rayat Shikshan Sanstha's
Karmaveer Bhaurao Patil College of Engineering, Satara

Project Based Learning

Academic Year: 2016-17 Semester:- II   Course Name: Web Technology II
Course Code: CS168L05

A project statement based on HTML/PHP/MYSQL is given to the group of students.

Objective:
1. To develop a real time web application using HTML/PHP/MYSQL.
2. To learn the database access and state management.

Outcome:
1. Students will be able to Design Dynamic real time web applications using HTML/PHP/MYSQL.

Project Title	Roll No	Name of the student	Date of Completion	Remarks of Faculty
Complete Authentication Module with registration and session handling	1	Ballal Shweta Dilip	2/3/2017	Students demonstrated their projects All the concepts like designing, coding and database are asked by me. to chek the level of understanding.
	2	Barge Pranoti Santosh		
	3	Barge Supriya Sanjay		
	4	Bhivarkar Nayan Sonaji		
	5	Bhosale Jyoti Machindranath		
Online Examination	6	Bhosale Nitin		
	7	Bhosale Shubhada Ankush		
	8	Bhujbal Chaitali Vishnu		
	9	Bondare Shivanjali		
	10	Dadas Mayur Damodar		
Online Book Shop	11	Dalavi Tejashree Mohan		
	12	Dalvi Suraj Arun		
	13	Deo Ankita Nitin		
	14	Deshmukh Rohit Arjun		
	15	Deshmukh Shivani C.		
Digital Library	16	Deshmukh Shweta R		
	17	Dhabdhabe Dipika Dattu		
	18	Dhaske Aishwarya Satish		
	19	Dhule Ashwini Parshuram		
	20	Gaikwad Pratik Pradeep		
Online Mobile Shoppy	21	Ghadge Aniket H.	1/3/2017	Students demonstrated their projects All the concepts completed in PHP are asked to checke the level of understanding.
	22	Ghule Surekha Babaso		
	23	Gore Akhilesh Milind		
	24	Gunjawate Sayali Sanjay		
	25	Guruv Shweta Gajanan		
Complete Authentication Module with registration and session handling	26	Jadhav Aishwarya Pratap		
	27	Jadhav Pradnya Dilip		
	28	Jadhav Suraj Uddhavrao		
	29	Jadhav Vishakha Deepak		
	30	Jagdale Pratiksha P		
Online Examination	31	Jagdale Shubham Uttam		
	33	Kalal Galib Riyaj		
	34	Kale Kavita Satish		
	35	Kambale Kiran Jayawant		
	36	Kamble Akshay B.		

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Project	No.	Name	Date	Remarks
Online Book Shop	37	Kende Shreyas Sharad		
	38	Kolpe Sneha Bajrang		
	39	Kshirsagar Pooja J		
	40	Kulkarni Viraj Vinod		
"Online exam-C Mania"	32	Kadam Minakshi Mansing	2/3/2017	All students demonstrated the project. 'Online Exam' project done by Minakshi was used for C-mania competition under quest 2017.
Digital Library	42	Kulkarni Swapnil N.		
	43	Kumbhar Sukanya K		
	44	Lavangare Pritee Rajiv		
	45	Mahadik Aishwarya Vilas		
The Digital Library	41	Kulkarni Aishwarya D.		
	49	Nalge Bhakti		
	69	Suryawanshi Snehal		
Complete Authentication Module with registration and session handling	46	Mahamulkar Snehal D.		
	47	More Monika Sidhodhan		
	48	Mulla Tufel Mainuddin		
	50	Nandgaonkar Pratiksha S.		
Online Examination	51	Nandle Mittala Ravindra		
	52	Nikalje Milind Dipak		
	53	Nikam Sandhyarani P		
	54	Nimbalkar Apurva Rajan		
	55	Padalkar Sanjana Sanjay		
Online Book Shop	56	Patil Komal Rajendra	1/3/2017	projects were demonstrated by the students. and oral was also conducted on the coding details.
	57	Patil Aishwarya Sanjay		
	58	Patil Sandip Gautam		
	59	Patil Sanket Sanjay		
	60	Pawar Priyanka Rajendra		
Digital Library	61	Sapkal Snehal Suresh		
	62	Sarda Tanvi Hrishikesh		
	63	Shedage Komal B.		
	64	Shedage Sandipan		
	65	Shelar Akash Prashant		
Online Mobile Shoppy	66	Shinde Kanchan		
	67	Shinde Nikhil Pradip		
	68	Suryavanshi Priyanka		
	70	Tanksale Ramchandra D.		
Complete Authentication Module with registration and session handling	71	Taral Amruta		
	72	Taware Akshay Deepak		
	73	Vedpathak Omkar Satish		
	74	Virkar Archana		
	75	Yadav Pavankumar Mohan		
Online Examination	76	Chavan Ameya Sanjay		
	77	Ambekar Pratikasha Pradeep		

Signature of the Faculty

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Project Based Learning

Academic Year: 2016-17 Semester:- I / II   Course name: Operating systems -II

Sr.No	Project Title	Objectives	Outcomes	Roll numbers of the participants	Date of Completion	Remarks of Faculty
1	Process Management (creation, termination)	To explain students process creation & termination	Students coill be able to process creation & termination	1,2,3,4,5,6, 7,8,9,	4/3/2017	Home and lab assignment completed successfully
2	PCB, ready queue, I/O device queue	To expose students PCB, ready queue, I/O device queue	Students coill be able to PCB, ready queue, I/O device queues	10,11,12,13, 14,15,16,17, 18	3/3/2017	Home and lab assignment completed successfully
3	process states, context switching	To explain states, context switching	Students coill be able to understand states, CS.	19,20,21,22 23,24,25, 26	10/3/2017	Home and lab assignment completed successfully
4	forking a process, interprocess communication	To expose students forking a process, IPC	Students coill be able to understand task, IPC	27,28,29, 30,31,32, 33	05/3/2017	Home and lab assignment completed successfully

5	CPU scheduling FCFS	To explain students CPU scheduling	students will be able to understand FCFS	34,35,36, 37,38,39, 40,41,42	9/3/2017	Implementation done successfully
6	Hierarchical paging	To explain students hierarchical paging	students will be able to understand H paging	43,44,45, 46,47,48, 49,50.	6/3/2017	Implemented successfully
7	Hashed page tables	To explain students hashed page table	students will be able to understand hashed page table	51,52,53, 54,55,56, 57,58,59	10/3/2017	Implemented successfully
8	Invested page tables	To explain students Invested page tables	students will be able to understand invested page tables	60,61,62,63, 64,65,66, 67,68,69,70	5/3/2017	Implemented successfully
9	Page replacement policies.	To explain students page replacement policies.	students will be able to understand page replacement policy	71,72,73, 74,75,76, 77,78,79	03/3/2017	Implemented successfully

Signature of the Faculty

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Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Project Based Learning

Course: Software Engineering(SE CSE)

Course coordinator: Prof. Tejashree Gurav   2017-18

Sr no	Group Members	Unique ID	Project name	Signature
1	Snehal. S. Pisal	CS 2016068	kinder School.	Spisal
2.	Saloni. Doshi	CS 2016060		Amoshi
3.	Vaishnavi kende.	CS 2016075		Vais
4.	Gauri. Swami	CS 2016037		Swami
1.	Ankita S. Mane	CS2016031	Hospital Webpage	Abmane
2.	Pratiksha M. Magar	CS2016052		PMagar
3.	Shruti D. korde	CS2016064		Dkorade
4.	Amruta A. Langade	CS2016026		AALang
1	Harale Pratibha.N	CS2017009	Library Management System	Hralepl.
2	Pawar Pranoti	CS 2016051		Pawe
3	Baikwad Ankita			
4	Phalke Areti	CS2016022		Phalke

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Sr no	Group Members	Unique ID	Project name	Signature
1	Sonali Tarase	CS 2016070	Webpage designing for Restraurant	Tarase S.s
2	Rutuja R. Shinde	CS 2016053		Shinde
3	Divya S. Wadhwani	CS 2016035		D.S Wadhwani
4	Srushti R. Kortkar	CS 2016071		S.kortkar
1.	Shinde Prayaleta V.	CS2016049	webpage designing for school Management	
2.	Phadtare Pranali M.	CS 2016050		
3.	Yadav Satyajeet N.	CS2016061		
1.	Palange Aishwaryav.	CS2016024	web page designing for flipcart shopping.	Palange
2.	Salunkhe Shruti Nitin	CS2016066		Salunkhe
3.	Jaykar Suryadeep A	CS2016073		Jaykar
1)	Salunkhe, Animesh	CS2016027	Webpage Designing for Amazon shopping	
2)	Khatavkar Abhishek	CS2016023		Ask
3)	Mulani Altamesh	CS2016025		
1)	Gadbole Hrishikesh A.	CS2016039		HAGadbole
2)	Bhilare Rohit A.	CS2016054	Gmail webpage	Rohit
3)	Deshpande chinmay M	CS2016034		cm Deshpande.

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Sr no	Group Members	Unique ID	Project name	Signature
1)	shelar Saurabh	CS2017010	Snapdeal.com Webpage	shelar
2)	Rohit Barge	CS2016CS3		R.K Barge
3)	Pujari Abhilash	CS2015064		PujariA
4)	Salunkhe Hrishikesh	CS2015066		Salunkhe
5)	Dhumal Pranav	CS2014047		
1)	supriya b kadam	CS2016072	Online shopping (Mall). Webpage	ssKadam
2)	Shalaka P Joshi	CS2016063		shishe
3)	Devale Manjiri	CS2016043		Devale
1)	Rutuja Awale	CS2015063	Paytm Webpage	Awale
2)	Snehal Patil	CS2015072		Spatil
8)	Komal Ingale	CS2015040		Ingale
1	Gauri Ghadage	CS2016036	Online Lenskart webpage	Gghadage
2)	Kshitija Khaire	CS2016041		Khaire
1)	Chorage Akshay	CS2015065	myntra web page	AKChorage
2)	Prathmesh Ghodke	CS2015067		Prathm
3)	Shivdas Rushikesh	CS2016056		Shivday

Sr no	Group Members	Unique ID	Project name	Signature
1)	Gundawar shreyas	CS2015070	outlook webpage	Shreyas
2)	kavade pranav	CS2017008		pranav .
3)	Dixit shantanu	CS2015069		
	~~Shitole Pooja Rajiv~~			
1	Shitole Pooja Rajiv	CS2016046	online Bus Ticket Booking webpage	
2	~~Saba Bagwan~~ Siddhi Sarade	CS2016067		
3	Saba Bagwan ~~Siddhi Sarde~~	CS2016059		S.J.Bagwan
4	Shruti Nagpurkar	CS2016065		Shruti

1. Phalke Aarti A.   CS2016022
2. Pawar Pranoti.   CS20160
3. Harale Pratibha   CS201P
4. Gaikwad Ankita

Course Coordinator

HOD
Comp.

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Sr no	Group Members	Unique ID	Project name	Signature
10)	khude Shubhangi S. Kacharre Swapnali S.	CS2014044 CS2014046	Android operating system.	Khude S.S.Kachare
11>	Zore Sunanda J Oswal Shrutika Gursale Vishakha	CS2015058 CS2015056	Linux operating System	Sou. S. Soul Cishu
12>	Himanshu D. Devi Kajol Kadam	CS2015038 CS2015040	Android-8 (oreo)	Kd
13>	Simran Hadaf Snehal Kamble Snehal Adaka	CS2014045 CS2015018	UBUNTU operating System	Hadof Kamble.
14	Nalawade Pradnyo Salunkhe Prajakta Sortope Neha	CS2015096 CS2016006	Android O.S	Nalawade Salu Neha.

Sr no	Group Members	Unique ID	Project name	Signature
15	Gaikwad Ankita S.	CS2015033	Linux Operating System.	*Gaikwad*
	Salunkhe Dipti S.	CS2016003		
	kale Amruta			
16	Kulkarni chaitrali M.	CS2015036	Windows 10 operating System	*Chaitrali*
	Phanase Sayali N.	CS2015054		*Sayali P.*

Course Coordinator

HOD
Comp.

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Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara
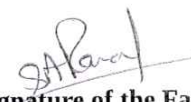
Project Based Learning

Academic Year: **2017-18** Semester:- **I** Course name:**WEB TECHNOLOGY-I**

Sr. No	Project Title	Objectives	Outcomes	Roll numbers of the participants	Date of Completion	Remarks of Faculty
1	Customer Query Track	To learn servlet technology for web application development	Understand the servlet technology for tracking customer query	1,2,3,4	25|9|17	completed
2	Poll Survey System	To motivate student to learn and understand HTML, CSS	Develop Poll Survey system using HTML and CSS	5,6,7,8	28|9|17	completed
3	Online Conference Registration	To motivate student to learn and understand HTML, CSS	Design online conference system using servlet	9,10,11,12,13	25|9|17	completed
4	Online System For Training And Placement Department	To motivate student to learn and develop JSP web application	Understand the concepts of JSP	14,15,16,17	26|9|17	completed
5	Computer Science Department Portal	To learn servlet technology for web application development	Design Departmental Portal using servlet	18,19,20,21	29|9|17	completed
6	Multimedia Database Management System	To motivate student to learn and understand HTML, CSS, servlet	Design with HTML and CSS, Multimedia database with servlet	22,23,24,25	25|9|17	Completed
7	Mail server with	To learn servelt	Undestand the concepts	26,27,28,29		

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	intranet and live chat	technology ~~reb~~ applicatior development	of servlet		29|9|17	completed
8	Keystroke analysis	To motivate student to learn and develop JSP web application	Design a web application using servlet for Keystroke analysis	30,31,32,33	28|9|17	completed
9	Music Store Show Template - Html Css	To motivate student to learn and understand HTML, CSS	Develop a website for music store using HTML, CSS	34,35,36,37	25|9|17	completed
10	Human Resource Management System using JSP	To motivate student to learn and develop JSP web application	Develop HR system for company using JSP	38,39,40,41	28|9|17	completed
11	Corporate Recruitment System using JSP	To motivate student to learn and develop JSP web application	Design JSP application for Corporate Recruitment system	42,43,44,45,46	26|9|17	Completed
12	Text To Speech Converter in JSP	To motivate student to learn and develop JSP web application	Develop Text To Speech Converter using JSP	47,48,49,50	26|9|17	Completed
13	DOM and SAX Parser	To learn XML Parsers	Using XML and JAVA develop parsers	51,52,53,54	29|9|17	completed
14	XML and XSLT	To understand Xschema, XSL, XSLT	Design an application to convert XML into HTML	55,56,57,58	29|9|17	completed
15	E-Buspass Registration And Renewal System JSP	To motivate student to learn and develop JSP web application	Develop E-Buspass Registration And Renewal system using JSP	59,60,61,62	26|9|17	Completed
16	Suspicious e-mail Detection servlet	To learn servelt technology for web application development	Desing Suspicious e-mail Detection system	63,64,65,66	25|9|17	completed
17	Sales and Inventory Management System using JSP	To motivate student to learn and develop JSP web application	Develop Sales and Inventory Management mailer system	67,68,69,70,71	26|9|17	completed
18	Personal Identity Management servlet	To learn servelt technology for web	Design Personal Identity application	72,73,74,75	27|9|17	completed

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		application development				
19	Online SMS Gas Booking System HTML,CSS	To motivate student to learn and understand HTML, CSS	Desing a website for Online SMS Gas Booking System using HTML,CSS	76,77,78,79	25/9/17	completed

Signature of the Faculty

rat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara
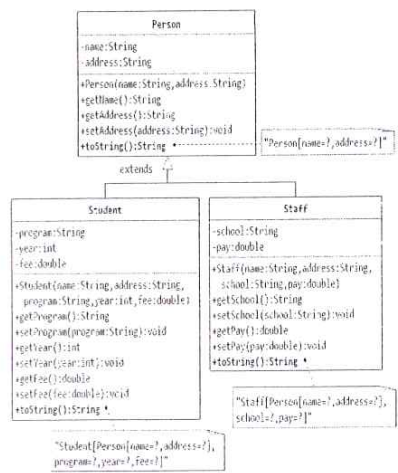
Academic Year: 2017-18   Semester-II

Name of the **Program**: Computer Science and Engineering   **Name of the Course**: Programming Laboratory IV
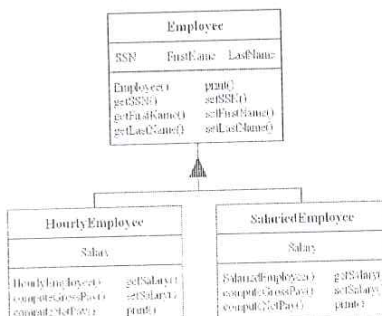
Name of the course Coordinator: Prof. Rasal S. A.

Project Based Learning based on Chapter 1,2,3   Date: (8)2|18.

Sr.No	Project/Experiment based Chapter 1,2,3	Project assigned to (RN, Name, Sign)	Status of completion & Remarks	
1	Implement following	1 Nilapwar Aishwarya Deepak	Completed	09|10
		2 Shaikh Alisha Yusuf		03|10
		3 Kale Amruta Ravinder		08|10
		4 Pawar Amruta S. Amruta		05|10

Sr.No	Project/Experiment base~~ ~~pter 1,2,3	Project assigned to (R~~ ~~ne, Sign)	Status of completion & Remarks
2		5 Ankita S. Gaikwad (Gaikwad)	completed 10/10
		6 Apurva Apurva 06	completed 08/10
		7 Ashwini P. Ranaware Ranaware	partially 05/10
3		8 Chopra Aartiki. R.	Partially 05/10
		9 —	0/10
		10 Chaitrali M. Kulkarni Kulkarni	completed 10/10
		11 Aware Chetan R. Aware	completed 10/10

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Sr.No	Project/Experiment based on chapter 1,2,3	Project assigned to (Roll No., Name, Sign)		Status of completion & Remarks
4		12		09|10
		13		09|10
		14		09|10
		15		09|10
5		16	Kadam Kajol v	completed	02|10
		17	Shinde Kajol V	completed	10|10
		18	Katkar Manali	completed	10|10

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Sr.No	Project/Experiment bas apter 1,2,3	Project assigned to (R me, Sign)	Status of completion & Remarks
6		19	completed 07/10
		20 Sukhadonbar Milir lylis	08/10
		21 Gaikwad minal C. Mei	08/10
7		22 Neha Satlane thithure	completed 07/10
		23 Devmane Nirmala.(Mile.	07/10
		24	09/10
		25 Gandhi Pankaj A. Pankaj	07/10

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Sr.No	Project/Experiment bas___ apter 1,2,3	Project assigned to (R___ me, Sign)	Status of completion & Remarks	
8		26 Pooja N. Rathod (Rathod)	completed	10/10
		27 Nisalkar Poonam A. Poonam	completed	10/10
		28	completed	07/10
		29 Prajakta S. Salunkhe Salunkhe	completed	10/10
9		30 Ahivekar Pranita R.	completed	08/10
		31		07/10
		32 Pawar pratibha P.s.pawar		08/10

Sr.No	Project/Experiment based on chapter 1,2,3	Project assigned to (Roll No, Name, Sign)		Status of completion & Remarks
10		33		
		34		
		35		
11		36		Not done 0/10
		37 Nikam Priyanka S.	*signature*	completed 10/10
		38 Navale Pooja S.	*signature*	completed 10/10
		39 Suryavanshi Rakhee B.S		~~no~~ Not done 0~~8~~2/10
12		40		

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Sr.No	Project/Experiment bas... ...apter 1,2,3	Project assigned to (... ...me, Sign)	Status of completion & Remarks
		40	partially 5/10
		41 Doshi Rucha .L. Rool	~~completed~~ partially 10/10 ~~completed~~
		42 Sabah Bagwan. N.	~~completed~~ 3/10 partially
13		43 Sai Vikrant Mandape.	partially 7/10
		44	partially 7/10
		45 Samruddhi P. Benkar Benkar	completed . 10/10
14		46	

Sr.No	Project/Experiment based [...] pter 1,2,3	Project assigned to (RN [...] ie, Sign)	Status of completion & Remarks	
15	Transaction - accountNumber : Integer + getAccountNumber() + execute() BalanceInquiry Withdrawal Deposit - amount : Double - amount : Double + execute() + execute() + execute() Sample Class Diagram Customer / Order / SpecialOrder / NormalOrder diagram	50 shaikh shirin gaffar s·a·shaikh	completed	10/10
		51 Gaikwad Shraddha Jagannath	completed	10/10
		52 Mahammuni Shruti Shankant	completed	10/10
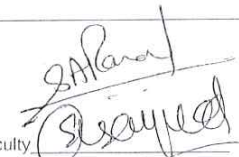
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Sr.No	Project/Experiment based ...ter 1,2,3		Project assigned to (RN ...e, Sign)	Status of completion & Remarks	
			46 Momin Sana vahid. Momin	completed	10|10
			49 Banse Sayali B. Banse	completed	10|10
			49 Thanase Sayali N	completed	10|10

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Sr.No	Project/Experiment base... apter 1,2,3	Project assigned to (R... me, Sign)	Status of completion & Remarks	
16	class Associations and Attributes example	53 Oswal Shrutika Suresh	completed	10/10
		54 Khade Shubhangi S. Khude	completed	10/10
		55 - ~~Not do~~ Simran Nadaf.	Not done.	02/10
17	MealOrder	56 shehal Adake · H. Adake	completed	08/10
		57 Snehal kamble P. Kamll.	completed	09/10
		59 Sunanda zore.T.	completed	10/10
		60 Kanwalu Senila	completed.	10/10

Sr.No	Project/Experiment base_____pter 1,2,3	Project assigned to (R___ne, Sign)	Status of completion & Remarks	
18		61 Kacharge Swapnali S. S.S Kachan	completed	10/10
		62 Myawar Tabassum. S Dya		08/10
		63 Kutle Tejas N. Kuletas		08/10
19		64 Gunsale Vishakha Surendra	completed	9/10
		65 Ramanawore Yogita Satish	completed	9/10
		66 Bhosale Yugandhara Arvind	completed	9/10

Sign of the Faculty

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