



Date: 24/3/2018

REPORT

“Training Program on Big Data and Hadoop”

Department of Computer Engineering, ISB&M School of Technology, Nande, Pune organized “A Training Program on Big Data and Hadoop” From 21st March to 24th March 2018 in association with Wisdom Sprout. Due to the advent of new technologies, devices, and communication means like social networking sites, the amount of data produced by mankind is growing rapidly every year. Big data involves the data produced by different devices and applications. Hadoop is an Apache open source framework written in java that allows distributed processing of large datasets across clusters of computers using simple programming models.

The invited guest on the dais was Mr. Swapneel Petkar, Mr. Harshwardhan Bhosale, Head of Department Computer Engineering Prof. S. K. Asrani. Off the dais, Faculty members of computer department and Students.


Program Started in Seminar Hall, Computer Department with welcome of dignitaries on dias, Head of Departments, all staff and Students by Prof. Sheela Bankar followed by felicitation of Mr. Swapneel Petkar and Mr. Harshwardhan Bhosale. Then Head of Department Prof. S. K. Asrani had given speech. After that actual session started by Mr. Harshvardan Bhosale.

On the first day session was continued till 6 pm and remaining days it was scheduled from 9 am to 6 pm. Session was very interactive and students was enjoyed as well as learned.

The training was concluded with the gratitude expressed by Prof. Komal Jagdale. Total Number of student present was 44.


Prof. Komal Jagdale
Event Coordinator



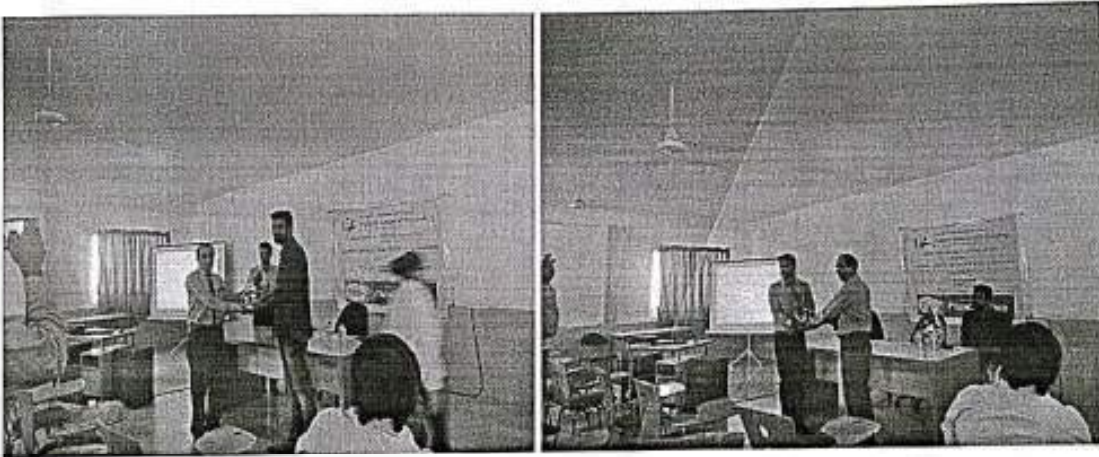

Prof. S. K. Asrani
Prof. Head
Dept. of Computer Engg.
ISB&M School of Technology
Nande, Pune -42.



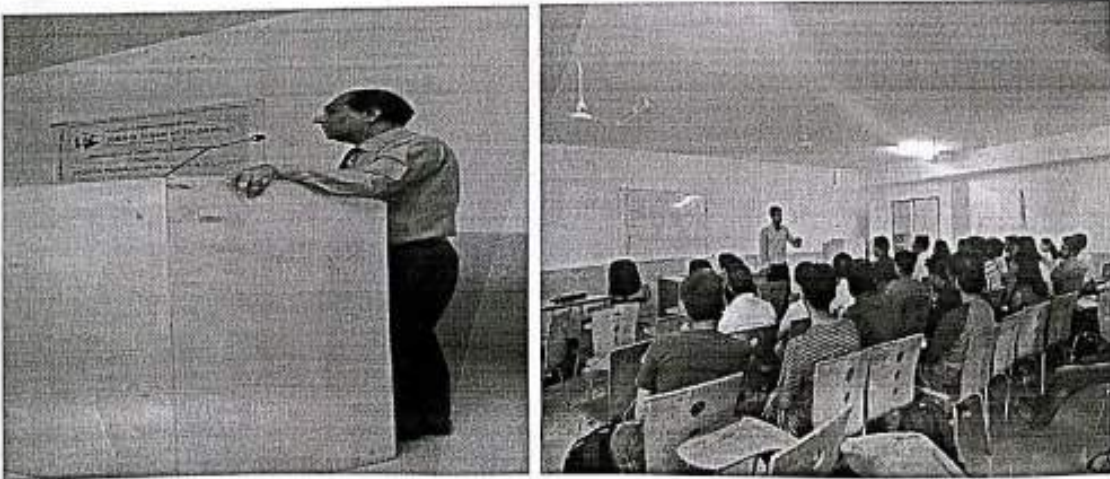
Peoples Empowerment Group
ISB&M SCHOOL OF TECHNOLOGY, NANDE, PUNE
DEPARTMENT OF COMPUTER ENGINEERING
Academic Year 2017-18

"Training Program on Big Data and Hadoop"
From 21st to 24th March 2018

PHOTOS



Mr. Swapneel Petkar and Mr. Harshwardhan Bhosale Felicitated by HOD



Speech by HOD Prof. Asrani Sir

Training by : Mr. Harshwardhan Bhosale





This Is To Certify That SAMPLE CERTIFICATE

Has Successfully Completed Training Under The **814**

DATA HADOOP TRAINING WORKSHOP Program.



DATE



SIGNATURE



Peoples Empowerment Group
ISB&M SCHOOL OF TECHNOLOGY, NANDE, PUNE
DEPARTMENT OF COMPUTER ENGINEERING
Academic Year 2017-18

Date: 16/3/2018

REPORT

“Training Program on Mongo DB”


Department of Computer Engineering, ISB&M School of Technology, Nande, Pune organized “A Training Program on Mongo DB” From 12th to 14th March and 16th March 2018 in association with Wisdom Sprout.

The invited guest on the dais was Mr. Harshwardhan Bhosale, Head of Department Computer Engineering Prof. S. K. Asrani. Off the dais, Faculty members of computer department and Students.


Program Started with welcome of dignitaries on dias, Head of Departments, all staff and Students by Prof. Sheela Bankar followed by felicitation of Mr. Swapneel Petkar and Mr. Harshwardhan Bhosale. After that actual session started by Mr. Harshvardan Bhosale in Data Structure Lab of Computer Department.

On the first day session was continued till 5 pm and remaining days it was scheduled from 9 am to 5 pm. Hands on was given to the students. Session was very interactive and students was enjoyed as well as learned.

The training was concluded with the gratitude expressed by Prof. Komal Jagdale. Total Number of student present was 40.


Prof. Komal Jagdale
Event Coordinator




Prof. S. K. Asrani
HOD

Prof. & Head
Dept. of Computer Engg.
ISB&M School of Technology
Nande, Pune -42.



Peoples Empowerment Group
ISB&M SCHOOL OF TECHNOLOGY, NANDE, PUNE
DEPARTMENT OF COMPUTER ENGINEERING
Academic Year 2017-18

"Training Program on Mongo DB"
From 12th to 14th and 16th March 2018

PHOTOS



Training by: Mr. Harshwardhan Bhosale





This Is To Certify That SAMPLE CERTIFICATE

Has Successfully Completed Training Under The

MONGODS WORKSHOP Program.

DATE



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SIGNATURE

Savitribai Phule Pune University
Second Year of Computer Engineering (2015 Course)
 (With effect from Academic Year 2016-17)

Semester I

Course Code	Course Name	Teaching Scheme Hours / Week			Examination Scheme & Marks						Credit	
		Theory	Tutorial	Practical	In-Sem	End-Sem	TW	PR	OR	Total	TH + TUT	PR
210241	<u>Discrete Mathematics</u>	04	--	--	50	50	--	--	--	100	04	--
210242	<u>Digital Electronics and Logic Design</u>	04	--	--	50	50	--	--	--	100	04	--
210243	<u>Data Structures and Algorithms</u>	04	--	--	50	50	--	--	--	100	04	--
210244	<u>Computer Organization and Architecture</u>	04	--	--	50	50	--	--	--	100	04	--
210245	<u>Object Oriented Programming</u>	04	--	--	50	50	--	--	--	100	04	--
210246	<u>Digital Electronics Lab</u>	--	--	02	--	--	25	50	--	75	--	01
210247	<u>Data Structures Lab</u>	--	--	04	--	--	25	50	--	75	--	02
210248	<u>Object Oriented Programming Lab</u>	--	--	02	--	--	25	50	--	75	--	01
210249	<u>Soft Skills</u>	--	--	02	--	--	25	--	--	25	--	01
Total											20	05
210250	<u>Audit Course 1</u>	--	--	--	--	--	--	--	--	--	Grade	
Total		20	--	10	250	250	100	150	--	750	25	

Abbreviations:

TW: Term Work
 OR: Oral
 PR: Practical

TH: Theory
 TUT: Tutorial
 Sem: Semester

Savitribai Phule Pune University, Pune
Second Year of Computer Engineering (2015 Course)

210250 Audit Course I

AC1-I: Road Safety

Road transport remains the least safe mode of transport, with road accidents representing the main cause of death of people. The boom in the vehicle population without adequate road infrastructure, poor attention to driver training and unsatisfactory regulation has been responsible for increase in the number of accidents. India's vehicle population is negligible as compared to the World statistics; but the comparable proportion for accidents is substantially large.

The need for stricter enforcement of law to ensure greater safety on roads and an environment-friendly road transport operation is of paramount importance. Safety and security are growing concerns for businesses, governments and the traveling public around the world, as also in India. It is, therefore, essential to take new initiatives in raising awareness, skill and knowledge of students as one of the ibid stake holders who are expected to follow the rules and policies of the government in order to facilitate safety of individual and safe mobility of others.

Course Contents

1. Existing Road Transport Scenario
2. Accident Causes & Remedies
3. Road Accident Investigation & Investigation Methods
4. Vehicle Technology – CMVR & Road Safety
5. Regulatory / Legislative Provisions for Improving Road Safety
6. Behavioral Training for Drivers for Improving Road Safety
7. Road Safety Education
8. Road Engineering Measures for Improving Road Safety

Reference:

1. "Road Accidents in India Issues & Dimensions", Ministry of Road Transport & Highways Government of India (www.unescap.org/sites/default/files/2.12.India_.pdf)
2. "Road Safety in India- Insights and analysis", http://indiatrtransportportal.com/wp-content/uploads/2012/11/Road_safety_2012.pdf
3. Road User's Handbook, ROADS & MARITIME PUBLICATIONS
4. "Improving Road Safety in Developing Countries", The national Academic Press

Savitribai Phule Pune University
Second Year of Computer Engineering (2015 Course)
 (With effect from Academic Year 2016-17)
Semester II

Course Code	Course Name	Teaching Scheme Hours / Week			Examination Scheme & Marks						Credits						
		Theory	Tutorial	Practical	In-Sem	End-Sem	TW	PR	OR	Total	TH+TUT	PR					
207003	<u>Engineering Mathematics III</u>	04	01	--	50	50	25	--	--	125	05	--					
210251	<u>Computer Graphics</u>	04	--	--	50	50	--	--	--	100	04	--					
210252	<u>Advanced Data Structures</u>	04	--	--	50	50	--	--	--	100	04	--					
210253	<u>Microprocessor</u>	04	--	--	50	50	--	--	--	100	04	--					
210254	<u>Principles of Programming Languages</u>	03	--	--	50	50	--	--	--	100	03	--					
210255	<u>Computer Graphics Lab</u>	--	--	02	--	--	25	50	--	75	--	01					
210256	<u>Advanced Data Structures Lab</u>	--	--	04	--	--	25	50	--	75	--	02					
210257	<u>Microprocessor Lab</u>	--	--	04	--	--	25	50	--	75	--	02					
Total											20	05					
210258	Audit Course 2		--	--	--	--	--	--	--	--	Grade						
Total											19	01					
Total											250	250	100	150	--	750	25

Abbreviations:

TW: Term Work
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 Sem: Semester

Savitribai Phule Pune University, Pune
Second Year of Computer Engineering (2015 Course)

210258: Audit Course 2

AC2-II: Intellectual Property Rights and Patents

Intellectual property is the area of law that deals with protecting the rights of those who create original works. It covers everything from original plays and novels to inventions and company identification marks. The purpose of intellectual property laws is to encourage new technologies, artistic expressions and inventions while promoting economic growth.

Innovation and originality have great potential value. Whatever line of activity you are engaged in, future success depends on them. The last few years have seen intellectual property rights become an issue of general interest: the smart phone "patent wars", the introduction of Digital Rights management (DRM) and the rise of generic pharmaceuticals and open-source software are just some examples that have been in the public eye. Protecting your intellectual rights appropriately should be a top priority. Yet too many people embark on their chosen professions without even a basic awareness of intellectual property.

Course Objectives:

- To encourage research, scholarship, and a spirit of inquiry
- To encourage students at all levels to develop patentable technologies.
- To provide environment to the students of the Institute for creation, protection, and commercialization of intellectual property and to stimulate innovation.

Course Outcomes:

On completion of the course, learner will be able to-

- Understand the fundamental legal principles related to confidential information, copyright, patents, designs, trademarks and unfair competition
- Identify, apply and assess principles of law relating to each of these areas of intellectual property
- Apply the appropriate ownership rules to intellectual property you have been involved in creating

Course Contents

- **Introduction to Intellectual Property Law** – The Evolutionary Past - The IPR Tool Kit- Para -Legal Tasks in Intellectual Property Law
- **Introduction to Trade mark** – Trade mark Registration Process – Post registration Procedures – Trade mark maintenance - Transfer of Rights – Inter partes Proceeding – Infringement - Dilution Ownership of Trade mark
- **Introduction to Copyrights** – Principles of Copyright Principles -The subjects Matter of Copy right – The Rights Afforded by Copyright Law – Copy right Ownership, Transfer and duration – Right to prepare Derivative works
- **Introduction to Trade Secret** – Maintaining Trade Secret – Physical Security – Employee Limitation - Employee confidentiality agreement

Reference:

1. Debirag E. Bouchoux: "Intellectual Property". Cengage learning , New Delhi, ISBN-10:1111648573
2. Ferrera, Reder, Bird, Darrow,"Cyber Law. Texts & Cases", South-Western's Special Topics Collections, ISBN:0-324-39972-3
3. Prabhuddha Ganguli: "Intellectual Property Rights" Tata Mc-Graw -Hill, New Delhi, ISBN-10:0070077177

Savitribai Phule Pune University, Pune
Third Year of Computer Engineering (2017 Course)

310249: Audit Course 3

AC3 – I: Cyber Security

Effective information security at the enterprise level requires participation, planning, and practice. It is an ongoing effort that requires management and staff to work together from the same script. Fortunately, the information security community has developed a variety of resources, methods, and best practices to help modern enterprises address the challenge. Unfortunately, employing these tools demands a high degree of commitment, understanding, and skill attributes that must be sustained through constant awareness and training.

Course Objectives:

- To assess the current security landscape, including the nature of the threat, the general status of common vulnerabilities, and the likely consequences of security failures;
- To critique and assess the strengths and weaknesses of general cyber security models, including the CIA triad
- To appraise the interrelationships among elements that comprise a modern security system, including hardware, software, policies, and people;
- To assess how all domains of security interact to achieve effective system-wide security at the enterprise level.

Course Outcome:

On completion of the course, learner will be able to–

- Compare the interrelationships among security roles and responsibilities in a modern information-driven enterprise—to include interrelationships across security domains (IT, physical, classification, personnel, and so on)
- Assess the role of strategy and policy in determining the success of information security;
- Estimate the possible consequences of misaligning enterprise strategy, security policy, and security plans;

Course Contents:

- 1. Cyber Security Basics:** Introduction, Elements of Information security, Security Policy, Techniques, Operational Model of Network Security, Terminologies in Network Security
- 2. Introduction to Cryptography:** Introduction, Encryption Methods: Symmetric, Asymmetric, Public Key and Management, Authentication methods, Digital Signatures
- 3. Security requirements:** Electronic Mail Security: Pretty Good Privacy, MIME, S/MIME, And Comparison. WEB Security, Secure Electronic Transaction(SET).
- 4. Intrusion and Firewall:** Introduction to threats, Intrusion detection, IDS: Need, Methods, Types of IDS, Password Management, Limitations and Challenges, Firewall Introduction, Characteristics and types, Benefits and limitations. Firewall architecture, Trusted Systems, Access Control
- 5. Security perspective of Hacking and its counter majors :** Introduction to Hacking, Counter majors: General Strategies

Books:

1. William Stallings, —Cryptography and Network Security”, Pearson, ISBN:978-93-325-1877-3
2. Oded Goldreich, —Foundations of Cryptography: Basic Tools”, Cambridge University Press, ISBN-10: 0521035368; ISBN-13: 978-0521035361
3. Jonathan Katz and Yehuda Lindell, —Introduction to Modern Cryptography”, CRC Book

Savitribai Phule University of Pune
Third Year Computer Engineering (2015 Course)
 (with effect from 2017-18)

Semester II

Course Code	Course	Teaching Scheme Hours / Week			Examination Scheme and Marks						Credit		
		Theory	Tutorial	Practical	In-Sem	End-Sem	TW	PR	OR	Total	TH/ TUT	PR	
310250	<u>Design & Analysis of Algorithms</u>	04	--	--	30	70	--	--	--	100	04		
310251	<u>Systems Programming & Operating System (SP & OS)</u>	04	--	--	30	70	--	--	--	100	04	--	
310252	<u>Embedded Systems & Internet of Things (ES & IoT)</u>	04	--	--	30	70	--	--	--	100	04	--	
310253	<u>Software Modeling and Design</u>	03	--	--	30	70	--	--	--	100	03	--	
310254	<u>Web Technology</u>	03	--	--	30	70	--	--	--	100	03	--	
310255	<u>Seminar & Technical Communication</u>	--	01	--	--	--	50	--	--	50	01	--	
310256	<u>Web Technology Lab</u>	--	--	02	--	--	25	50	--	75	--	01	
310257	<u>SP & OS Lab</u>	--	--	04	--	--	25	50	--	75	--	02	
310258	<u>ES & IoT Lab</u>	--	--	02	--	--	50	--	--	50	--	01	
Total Credit											19	04	
Total		18	01	08	150	350	150	100	--	750	23		
310259	<u>Audit Course 4</u>											Grade	

310259-Audit Course 4(AC4) Options:

AC4-I: Digital and Social Media Marketing

AC4-II: Green Computing

AC4-III: Sustainable Energy Systems

AC4-IV: Leadership and Personality Development

AC4-V: Foreign Language (Japanese- Module 4)

Abbreviations:

TW: Term Work TH: Theory OR: Oral TUT: Tutorial PR: Practical Sem: Semester

Savitribai Phule Pune University, Pune
Third Year of Computer Engineering (2017 Course)

310259: Audit Course 4

AC4 – I: Digital & Social Media Marketing

The importance of social media's role in modern marketing efforts can no longer be ignored. It's an integral component in almost all successful marketing strategies. With this increasing emphasis on integrated social media strategies, there is an Irrefutable need for marketing professionals and organizations to have end- to- end social media expertise. Through case studies, interactive sessions, and class exercises, students will learn best practices and develop the skills to connect business objectives with social media strategy, platforms and tactics. Topics will include choosing appropriate platforms, creating effective and engaging social media content, content management, social listening and creating a social media policy

Course Objectives:

- Identify best practices for Social Media Marketing, including platform level best practices.
- Connect business objectives to appropriate Social Media tactics.
- Create strong content that engages their target audience with their marketing message.

Course Outcome:

On completion of the course, learner will be able to–

- Create editorial calendars to manage content distribution.
- Use Social Listening tools to create timely, relevant content.
- Create Social Media policies that combine business objectives with appropriate use of social media channels and content.

Course Contents:

1. Introductions and review class objectives, Discuss class goals and individual goals, Fill out questionnaire, Introduction to Blogging, Create a blog post for your project. Include headline, imagery, links and post.
2. Introduction to Facebook and channel advertising and campaigns, Introduction to Twitter and channel advertising and campaigns, Creative Campaign examples across social channels
3. Introduction to both Google+ and LinkedIn. Provide an overview on LinkedIn advertising, Create Google+ and LinkedIn outlines for your project and include: types of posts and an example post for each platform.
4. Introduction to both Instagram and Pinterest as well as channel advertising and campaigns, Create Instagram and Pinterest outlines for your project and include: types of posts and an example post for each platform, review a content calendar, Lay out your own content calendar.

References:

1. Vandana Ahuja, Digital Marketing, Oxford Press, ISBN: 9780199455447,
2. Wiley, Jeannicy Mullen, David Daniels, David Gilmour –Email Marketing: An Hour a Day”, ISBN: 978-0-470-38673-6
3. David Scott, –The New Rules of Marketing and PR”, Wiley India, ISBN: 978-1-119-07048-1

Savitribai Phule Pune University Third Year of Computer Engineering (2015 Course) 310244: Information Systems and Engineering Economics		
Teaching Scheme: TH: 03 Hours/Week	Credit 03	Examination Scheme: In-Sem (Paper): 30 Marks End-Sem (Paper): 70 Marks
Course Objectives: <ul style="list-style-type: none"> To prepare the students to various forms of the Information Systems and its application in organizations. To expose the students to the managerial issues relating to information systems and help them identify and evaluate various options in Information Systems. To Prepare engineering students to analyze cost / revenue data and should able to do economic analyses in the decision making process to justify or reject alternatives / projects on an economic basis for an organization. 		
Course Outcomes: On completion of the course, student will be able to– <ul style="list-style-type: none"> Understand the need, usage and importance of an Information System to an organization. Understand the activities that are undertaken while managing, designing, planning, implementation, and deployment of computerized information system in an organization. Further the student would be aware of various Information System solutions like ERP, CRM, Data warehouses and the issues in successful implementation of these technology solutions in any organizations Outline the past history, present position and expected performance of a company engaged in engineering practice or in the computer industry. Perform and evaluate present worth, future worth and annual worth analyses on one of more economic alternatives. Be able to carry out and evaluate benefit/cost, life cycle and breakeven analyses on one or more economic alternatives. 		
Course Contents		
Unit I	Basic of Management Theory & Practices	07 Hours
Role of Information Systems in Organizations, The Information System Manager and his challenges, Concepts of Information Systems, Information Systems and Management Strategy Case Studies - Information Systems in the Indian Railways, Information Systems in an e-Commerce Organization.		
Unit II	Management Information System (MIS)	08 Hours
Managing Information Systems, Ethical and Social Issues, Information Technology Infrastructure and Choices, Information Systems Security and Control, Case Studies -Information Technology Infrastructure in a Bank, Information Technology Infrastructure in a manufacturing / process industry.		

Unit IV	Project Management: Process, Metrics, Estimations & Risks	08 Hours
<p>Project Management Concepts: The Management Spectrum, People, Product, Process, Project, The WSHH Principle, Metrics in the Process and Project Domains, Software Measurement : size & function oriented metrics(FP & LOC), Metrics for Project and Software Quality, Project Estimation :Observations on Estimation, Project Planning Process, Software Scope and feasibility, Resources: Human Resources, Reusable software, Environmental Resources. Software Project Estimation, Decomposition Techniques, Empirical Estimation Models: Structure, COCOMO II, Estimation of Object-oriented Projects, Specialized Estimation Case Study: Software Tools for Estimation, Project Scheduling: Basic Concepts, Defining a Task Set for the Software Project, Defining Task Network, Scheduling with time-line charts, Schedule tracking Tools:- Microsoft Project, Daily Activity Reporting & Tracking (DART)</p>		
Unit V	Project Management: Risk Management, Configuration Management, Maintenance & Reengineering	07 Hours
<p>Project Risk Management : Risk Analysis & Management: Reactive versus Proactive Risk Strategies, Software Risks, Risk Identification, Risk Projection, Risk Refinement, Risk Mitigation, Risks Monitoring and Management, The RMMM plan for case study project</p> <p>Software Configuration Management: The SCM repository, SCM process, Configuration management for WebApps, Case study: CVS and Subversion Tools, Visual Source Safe from Microsoft & Clear Case. Maintenance & Reengineering: Software Maintenance, Software Supportability, Reengineering, Business Process Reengineering, Software Reengineering, Reverse Engineering, Restructuring, Forward Engineering</p>		
Unit VI	Software Testing	07 Hours
<p>Introduction to Software Testing, Principles of Testing, Testing Life Cycle, Phases of Testing, Types of Testing, Verification & Validation, Defect Management, Defect Life Cycle, Bug Reporting, GUI Testing, Test Management and Automation.</p>		
Books:		
Text:		
<ol style="list-style-type: none"> 1. Roger Pressman, –Software Engineering: A Practitioner's Approach”, McGraw Hill, ISBN 0-07-337597-7 2. Ian Sommerville, –Software Engineering”, Addison and Wesley, ISBN 0-13-703515-2 		
References:		
<ol style="list-style-type: none"> 1. Carlo Ghezzi, –Fundamentals of Software Engineering”, Prentice Hall India, ISBN-10: 0133056996 2. Rajib Mall, –Fundamentals of Software Engineering”, Prentice Hall India, ISBN-13: 978-8120348981 3. Pankaj Jalote, –An Integrated Approach to Software Engineering”, Springer, ISBN 13: 9788173192715. 4. S K Chang, –Handbook of Software Engineering and Knowledge Engineering”, World Scientific, Vol I, II, ISBN: 978-981-02-4973-1 5. Tom Halt, –Handbook of Software Engineering”, Clanye International, ISBN-10: 1632402939 		

Savitribai Phule Pune University		
Third Year of Computer Engineering (2015 Course)		
310243: Software Engineering and Project Management		
Teaching Scheme: TH: 03 Hours/Week	Credit 03	Examination Scheme: In-Sem (Paper): 30 Marks End-Sem (Paper): 70 Marks
Prerequisite Courses: Fundamentals of Programming Languages (110003, 110011)		
Course Objectives: <ul style="list-style-type: none"> To learn and understand the principles of Software Engineering To be acquainted with methods of capturing, specifying, visualizing and analyzing software requirements. To apply Design and Testing principles to S/W project development. To understand project management through life cycle of the project. To understand software quality attributes. 		
Course Outcomes: On completion of the course, student will be able to– <ul style="list-style-type: none"> Decide on a process model for a developing a software project Classify software applications and Identify unique features of various domains Design test cases of a software system. Understand basics of IT Project management. Plan, schedule and execute a project considering the risk management. Apply quality attributes in software development life cycle. 		
Course Contents		
Unit I	Introduction to Software Engineering, Software Process Models	07 Hours
Software Engineering Fundamentals: Nature of Software, Software Engineering Principles, The Software Process, Software Myths. Process Models : A Generic Process Model, Prescriptive Process Models: The Waterfall, Incremental Process(RAD), Evolutionary Process, Unified Process, Concurrent. Advanced Process Models & Tools: Agile software development: Agile methods, Plan-driven and agile development, Extreme programming Practices, Testing in XP, Pair programming. Introduction to agile tools: JIRA, Kanban, Case Studies: An information system (mental health-care system), wilderness weather system		
Unit II	Software Requirements Engineering & Analysis	08 Hours
Requirements Engineering: User and system requirements, Functional and non-functional requirements, Types & Metrics, A spiral view of the requirements engineering process. Software Requirements Specification (SRS): The software requirements Specification document, The structure of SRS, Ways of writing a SRS, structured & tabular SRS for an insulin pump case study, Requirements elicitation & Analysis: Process, Requirements validation, Requirements management. Case Studies: The information system. Case study - Mental health care patient management system (MHC-PMS).		
Unit III	Design Engineering	08 Hours
Design Process & quality, Design Concepts, The design Model, Pattern-based Software Design. Architectural Design : Design Decisions, Views, Patterns, Application Architectures, Modeling Component level Design: component, Designing class based components, conducting component-level design, User Interface Design: The golden rules, Interface Design steps & Analysis, Design Evaluation, Case Study: Web-App Interface Design		

Unit III	Leveraging Information Systems	07 Hours
Information Systems Development and Project Management, Managing Data Resources, Business Process Integration and Enterprise Systems, ICT for Development and E-Governance, Case Studies - in-house or cloud based ERP implementation, UIDAI Unique Identification Authority of India.		
Unit IV	Money and Economic Value	08 Hours
Engineering Economic Decisions, Time Value of Money, Understanding Money Management, Case Studies- Economic decisions done in Multi-national companies.		
Unit V	Economics and Management	07 Hours
Equivalence Calculations under Inflation, Present-Worth Analysis, Annual-Equivalence Analysis. Case Studies -comparative analysis of software enterprises from similar domains.		
Unit VI	Understanding Cash Flow and Taxes	08 Hours
Accounting for Depreciation and Income Taxes, Project Cash-Flow Analysis, Understanding Financial Statements, Case Studies - cash flow analysis done in start-up companies.		
Books:		
Text:		
<ol style="list-style-type: none"> 1. Rahul De, -MIS: Management Information Systems in Business, Government and Society", Wiley India, ISBN: 13: 978-81-265-2019-0. 2. Chan S. Park , "Fundamentals of Engineering Economics", 3rd Edition, Pearson Education, ISBN 13: 978-02-737-7291-0 		
References:		
<ol style="list-style-type: none"> 1. Turban and Wali, -Information Technology on Management", Willey India, ISBN:9788126558711 2. William G. Sullivan, Elin M. Wicks, C. Patrick Koelling, Engineering Economy, Pearson Education, ISBN13: 978-01-334-3927-4 		

Savitribai Phule Pune University
Second Year of Computer Engineering (2015 Course)

210249: Soft Skills

Teaching Scheme: PR: 02 Hours /Week	Credit 01	Examination Scheme: TW: 25 Marks
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Course Objectives:

- To encourage the all round development of students by focusing on soft skills.
- To make the engineering students aware of the importance, the role and the content of soft skills through instruction, knowledge acquisition, demonstration and practice.
- To develop and nurture the soft skills of the students through individual and group activities.
- To expose students to right attitudinal and behavioral aspects and to build the same through activities

Course Outcomes:

On completion of the course, student will be able to-

- Effectively communicate through verbal/oral communication and improve the listening skills
- Write precise briefs or reports and technical documents.
- Actively participate in group discussion / meetings / interviews and prepare & deliver presentations.
- Become more effective individual through goal/target setting, self motivation and practicing creative thinking.
- Function effectively in multi-disciplinary and heterogeneous teams through the knowledge of team work, Inter-personal relationships, conflict management and leadership quality.

Course Contents

Unit I	Self-Development
Introduction to soft skills, Self-Management: Self-Evaluation, Self-Discipline, Self-Criticism, Self-Awareness, Self-Esteem, Positive Thinking, Perceptions and Attitudes, Values and Belief Systems, Personal success factors, Handling failure, Knowing Yourself, identifying one's strengths and weaknesses, SWOT analysis, Johari's Window, Career Planning & Goal setting, prioritization, Managing self- emotions, ego, pride, stress; Personality development.	
Unit II	Communication Skills

Significance of Communication- types, barriers of communication, effective communication, Verbal and non-verbal Communication, Speaking Skills – Importance of speaking effectively, speech process, message, audience, speech. Style, feedback, conversation and oral skills, fluency and self expression, body language phonetics and spoken English, speaking techniques, word stress, correct stress patterns, voice quality, correct tone, types of tones, positive image projection techniques, Public Speaking, Group discussion, Listening Skills: Virtues of Listening, Barriers and filters, Fundamentals of Good Listening, Reading Skills: Comprehension, reading research papers, Communication in a Digital World.

Unit III **Language and Writing Skills**

Vocabulary: One - Word Substitutes, Words often Confused - Pairs of Words, Synonyms and Antonyms, Foreign Phrases, Phrasal verbs derived from the dynamic verbs, Business Writing: Note Making, Letter writing, Writing Formal Letters. Technical Report Writing, Memo, Notices/Circulars Agenda and Minutes of a Meeting, E-Mail, Essay writing. Employment Communication: Job Application, Preparation of CV and Resume writing. Presentation skills: Professional Presentation, Nature of Oral Presentation, Planning a Presentation, Preparing the Presentation, Delivering the Presentation.

Unit IV **Leadership and Team Building**

Introduction, Leader and Leadership, Leadership Traits, Culture and Leadership: Salient Features of Corporate Culture, Leadership Styles, Leadership Trends, Team Building: Team Development Stages, Types of Teams: Cross-functional Team, Problem-solving Team, Inter- personal relations: Types of feelings, steps to deal with complex feelings. Assertiveness and Confidence building. Types of Conflict and resolutions. Emotions, emotional empathy and emotional intelligence.

Unit V **Stress and Time Management**

Introduction, Stress in Today's Time: Identify the Stress Source, Signs of Stress, Ways to Cope with Stress : Healthier Ways to Combat Stress, Steps to be Taken in the Organizations : Open communication, Time Management, Working towards Your Goals, Smart Work, Prioritize your Tasks, 4 Ds of Decision Making.

Unit VI **Ethics, Etiquette and Mannerism**

Professional Etiquette: Etiquette at Meetings, Etiquette at Dining. Involuntary Awkward Actions, Public Relations Office(PRO)'s Etiquettes, Technology Etiquette : Phone Etiquette, Email Etiquette, Social Media Etiquette, Video Conferencing Etiquette, Interview Etiquette, Dressing Etiquettes : for Interview, offices and social functions, Ethical Values: Importance of Work Ethics, Problems in the Absence of Work Ethics.

Books:

Text:

1. Gajendra Singh Chauhan, Sangeeta Sharma: Soft Skills – An Integrated Approach to Maximize Personality, WILEY INDIA, ISBN:13:9788126556397.

References:

1. Indrajit Bhattacharya, -An Approach to Communication Skills", Delhi, Dhanpat Rai, 2003.
2. Simon Sweeney, -English for Business Communication", Cambridge University Press, ISBN 13:978-0521754507.
3. Sanjay Kumar and Pushpa Lata, -Communication Skills", Oxford University Press, ISBN 10:9780199457069.
4. Atkinson and Hilgard's, -Introduction to Psychology", 14th Edition, Geoffrey Loftus, ISBN-10:0155050699 © 2003
5. Kenneth G. Megee, -Heads Up: How to Anticipate Business Surprises & Seize Opportunities First", Harvard Business School Press, Boston, Massachusetts, 2004, ISBN 10:1591392993.
6. Krishnaswami, N. and Sriraman, T, -Creative English for Communication", Macmillan.

Guidelines for Instructor's Manual

The instructor's manual is to be developed as a hands-on resource and reference. The instructor's manual need to include prologue (about University/program/ institute/ department/foreword/preface etc), University syllabus, conduction & Assessment guidelines, topics under consideration concept objectives, outcomes, guidelines, references.

Guidelines for Student's Lab Journal and TW Assessment

The student must prepare the journal in the form of report elaborating the activities performed in the lab. Continuous assessment of laboratory work is to be done based on overall performance and lab assignments performance of student. Each lab assignment assessment will assign grade/marks based on parameters with appropriate weightage. Suggested parameters for overall assessment as well as each lab assignment assessment include- timely completion, performance, punctuality, neatness, enthusiasm, participation and contribution in various activities-SWOT analysis, presentations, team activity, event management, group discussion, Group exercises and interpersonal skills and similar other activities/assignments.

Guidelines for Soft skills Lab Conduction

The instructor may frame assignments to enhance skills supporting career aspects. Multiple set of activity based assignments can be prepared and distributed among batches. Every student must be given adequate opportunity to participate actively in each activity. An exercise can be designed to allow multiple skills exposure for example a group task encouraging discussions, team building, value sharing, leadership and role play all at the same time.

Suggested List of Laboratory Assignments

- | | |
|----|---|
| 1. | <p>SWOT analysis</p> <p>The students should be made aware of their goals, strengths and weaknesses, attitude, moral values, self confidence, etiquettes, non-verbal skills, achievements etc. through this activity. SWOT Analysis, Confidence improvement, values, positive attitude, positive thinking and self esteem. The concern teacher should prepare a questionnaire which evaluate students in all the above areas and make them aware about these aspects.</p> |
| 2. | <p>Personal & Career Goal setting – Short term & Long term</p> <p>The teacher should explain to them on how to set goals and provide template to write their short term and long term goals.</p> |

3.	<p>Public Speaking Any one of the following activities may be conducted ;</p> <p>1. Prepared speech (Topics are given in advance, students get 10 minutes to prepare the speech and 5 minutes to deliver.) 2. Extempore speech (Students deliver speeches spontaneously for 5 minutes each on a given topic) 3. Story telling (Each student narrates a fictional or real life story for 5 minutes each) 4. Oral review (Each student orally presents a review on a story or a book read by them)</p>
4.	<p>Reading and Listening skills The batch can be divided into pairs. Each pair will be given an article (any topic) by the teacher. Each pair would come on the stage and read aloud the article one by one. After reading by each pair, the other students will be asked questions on the article by the readers. Students will get marks for correct answers and also for their reading skills. This will evaluate their reading and listening skills. The teacher should give them guidelines on improving their reading and listening skills. The teacher should also give passages on various topics to students for evaluating their reading comprehension.</p>
5.	<p>Group discussion Group discussions could be done for groups of 5-8 students at a time Two rounds of a GD for each group should be conducted and teacher should give them feedback.</p>
6.	<p>Letter/Application writing Each student will write one formal letter, and one application. The teacher should teach the students how to write the letter and application. The teacher should give proper format and layouts.</p>
7.	<p>Report writing The teacher should teach the students how to write report .The teacher should give proper format and layouts. Each student will write one report based on visit / project / business proposal etc.</p>
8.	<p>Resume writing- Guide students and instruct them to write resume.</p>
9.	<p>Presentation Skill Students should make a presentation on any informative topic of their choice. The topic may be technical or non-technical. The teacher should guide them on effective presentation skills. Each student should make a presentation for at least 10 minutes.</p>
10.	<p>Team games for team building - Students should make to participate in team activity.</p>
11.	<p>Situational games for role playing as leaders</p>
12.	<p>Faculty may arrange one or more sessions from following:</p>
13.	<p>Yoga and meditation. Stress management, relaxation exercises, and fitness exercises. Time management and personal planning sessions.</p>
13.	<p>Mock interviews- guide students and conduct mock interviews</p>

Course Structure for SE Computer Engineering
2012 Course (w.e.f. June 2013)

Subject Code	Subject	Teaching Scheme Hrs/Week			Examination Scheme					Mark Total
		Lect.	Tutorials	Pract	Paper	Tw	Pr	OR	Online	
SEM – I										
210241	Discrete Structures	4	—	—	50	—	—	—	50	100
210242	Data Structures and Problem Solving	4	—	4	50	—	50	—	50	150
210243	Digital Electronics and Logic Design	3	—	2	50	25	—	—	50	125
210244	Operating System and Administration	3	—	2	50	25	50	—	50	175
210245	Microprocessor Architecture	3	—	2	50	25	—	50	50	175
210246	Soft Skills	1	—	2	—	25	—	—	—	025
Total of Semester – I		18	—	12	250	100	100	50	250	750
SEM – II										
Subject Code	Subject	Teaching Scheme Hrs/Week			Examination Scheme					Mark Total
		Lect.	Tutorials	Pract	Paper	Tw	Pr	Or	Online	
207003	Engineering Maths - III	4	1	—	50	25	—	—	50	125
10247	Object Oriented and multi-core Programming	4	—	4	50	25	50	—	50	175
210248	Microprocessors and Interfacing Techniques	3	—	4	50	—	50	—	50	150
210249	Computer Graphics and Gaming	3	—	—	50	—	—	—	50	100
210250	Computer Organization	3	—	—	50	—	—	—	50	100
210251	Programming Laboratory	—	—	4	—	50	—	50	—	100
Total of Semester – II		17	1	12	250	100	100	50	250	750

210246 SOFT SKILLS

Teaching Scheme
Lectures: 1 Hrs/week
Practical: 2 Hrs/week

Examination Scheme
Term Work: 25 Marks

UNIT I:

(04 hours)

Self Awareness & self Development –

- a) **Self Assessment , Self Appraisal, SWOT, Goal setting - Personal & career** - Self-Assessment, Self-Awareness, Perceptions and Attitudes, Positive Attitude, Values and Belief Systems, Self-Esteem, Self appraisal, Personal Goal setting.
- b) **Career Planning, Personal success factors, Handling failure, Depression and Habit, relating SWOT analysis & goal setting, prioritization.**

UNIT II: Communication Skill

(06 hours)

- a) Importance of communication, types, barriers of communication, effective communication
- b) **Speaking Skills – Public Speaking, Presentation skills, Group discussion-** Importance of speaking effectively, speech process, message, audience, speech style, feedback, conversation and oral skills, fluency and self expression, body language phonetics and spoken English, speaking techniques, word stress, correct stress patterns, voice quality, correct tone, types of tones, positive image projection techniques.
- c) **Listening Skills:** Law of nature- you have 2 ears and 1 tongue so listen twice and speak once is the best policy, Empathic listening, Avoid selective listening-
- d) **Group Discussion** - characteristics, subject knowledge, oral and leadership skills, team management, strategies and individual contribution and consistency.
- e) **Presentation skills** - planning, preparation, organization, delivery.
- f) **Written Skills – Formal & Informal letter writing, Report writing, Resume writing** - Sentence structure, sentence coherence, emphasis. Paragraph writing. letter writing skills - form and structure, style and tone. Inquiry letters, Instruction letters, complaint letters, Routine business letters, Sales Letters etc.

UNIT III: Corporate / Business Etiquettes

(02 hours)

Corporate grooming & dressing, Email & telephone etiquettes, etiquettes in social & office setting- Understand the importance of professional behaviour at the work place, Understand and Implement etiquettes in workplace, presenting oneself with finesse and making others comfortable in a business setting. Importance of first impression, Grooming, Wardrobe, Body language, Meeting etiquettes (targeted at young professionals who are just entering business environment) , Introduction to Ethics in engineering and ethical reasoning, rights and responsibilities,

UNIT IV: Interpersonal relationship

(04 hours)

- a) **Team work, Team effectiveness, Group discussion, Decision making** - Team Communication. Team, Conflict Resolution, Team Goal Setting, Team Motivation Understanding Team Development, Team Problem Solving, Building the team dynamics. Multicultural team activity
- b) **Group Discussion-** Preparation for a GD, Introduction and definitions of a GD, Purpose of a GD, Types of GD, Strategies in a GD , Conflict management, Do's and Don'ts in GD

UNIT V: Leadership skills

(02 hours) Leaders'

role, responsibilities and skill required - Understanding good Leadership behaviours, Learning the difference between Leadership and Management, Gaining insight into your Patterns, Beliefs and Rules, Defining Qualities and Strengths of leadership, Determining how well you perceive what's going on around you, interpersonal Skills and Communication Skills, Learning about Commitment and How to Move Things Forward, Making Key Decisions, Handling Your and Other People's Stress, Empowering, Motivating and Inspiring Others, Leading by example, effective feedback

UNIT VI: Other skills

(02 hours)

a) Time management- The Time management matrix, apply the Pareto Principle (80/20 Rule) to time management issues, to prioritise using decision matrices, to beat the most common time wasters, how to plan ahead, how to handle interruptions , to maximise your personal effectiveness, how to say "no" to time wasters, develop your own individualised plan of action

b) Stress management- understanding the stress & its impact, techniques of handling stress

c) Problem solving skill, Confidence building Problem solving skill, Confidence building

Term Work/Assignments

Term work will consist the record of any 8 assignments of following exercises

1. SWOT analysis
2. Personal & Career Goal setting – Short term & Long term
3. Presentation Skill
4. Letter/Application writing
5. Report writing
6. Listening skills
7. Group discussion
8. Resume writing
9. Public Speaking
10. Stress management
11. Team Activity-- Use of Language laboratory

*** Perform any 8 exercises out of above 11 with exercise no. 11 as compulsory.**

Teaching Methodology

Each class should be divided into three batches of 20-25 students each. The sessions should be activity based and should give students adequate opportunity to participate actively in each activity. Teachers and students must communicate only in English during the session. Specific details about the teaching methodology have been explained in every activity given below.

Practical Assignments (Term work)

Minimum 8 assignments are compulsory and teachers must complete them during the practical sessions within the semester. The teacher should explain the topics mentioned in the syllabus during the practical sessions followed by the actual demonstration of the exercises. . Students will submit report of their exercise (minimum 8) assignments as their term work at the end of the semester but it should be noted that the teacher should assess their assignment as soon as an activity is conducted. The continual assessment process should be followed.

1. SWOT analysis

The students should be made aware of their goals, strengths and weaknesses, attitude, moral values, self confidence, etiquettes, non-verbal skills, achievements etc. through this activity. The teacher should explain to them on how to set goals, SWOT Analysis, Confidence improvement, values, positive attitude, positive thinking and self esteem. The teacher should prepare a questionnaire which evaluate students in all the above areas and make them aware about these aspects.

2. Personal & Career Goal setting – Short term & Long term

3 Presentation Skills

Students should make a presentation on any informative topic of their choice. The topic may be technical or non-technical. The teacher should guide them on effective presentation skills. Each student should make a presentation for at least 10 minutes.

4. Letter/Application writing

Each student will write one formal letter, and one application. The teacher should teach the students how to write the letter and application. The teacher should give proper format and layouts.

5. Report writing

The teacher should teach the students how to write report .. The teacher should give proper format and layouts. Each student will write one report based on visit / project / business proposal etc.

6. Listening skills

The batch can be divided into pairs. Each pair will be given an article (any topic) by the teacher. Each pair would come on the stage and read aloud the article one by one. After reading by each pair, the other students will be asked questions on the article by the readers. Students will get marks for correct answers and also for their reading skills. This will evaluate their reading and listening skills. The teacher should give them guidelines on improving their reading and listening skills. The teacher should also give passages on various topics to students for evaluating their reading comprehension.

7. Group discussion

Each batch is divided into two groups of 12 to 14 students each. Two rounds of a GD for each group should be conducted and teacher should give them feedback.

8. Resume writing

Each student will write one formal letter, and one application. The teacher should teach the students how to write the letter and application. The teacher should give proper format and layouts.

9. Public Speaking

Any one of the following activities may be conducted :

2. **Prepared speech** (topics are given in advance, students get 10 minutes to prepare the speech and 5 minutes to deliver.
3. **Extempore speech** (students deliver speeches spontaneously for 5 minutes each on a given topic)
4. **Story telling** (Each student narrates a fictional or real life story for 5 minutes each)
5. **Oral review** (Each student orally presents a review on a story or a book read by them)

10.. **Team Activity**-- Use of Language laboratory

Text Books:

- 1 **Communication Skills** : Sanjay Kumar and Pushpa Lata , Oxford University Press
- 2 Developing Communication Skill : Krishna Mohan, Meera Banerji,- McMillan India Ltd.
- 3 English for Business Communication : Simon Sweeney , Cambridge University Press

Books for references:

- 1.NASSCOM-Global Business Foudation Skills: Accenture,Convergys,Dell et.al.
Foundation Books : Cambridge University Press
2. Basic Managerial Skills for all E. H. McGrath, Eastern Economy Edition, Prentice hall India.
3. Personality Development and Group Discussions,Barun K. Mitra, Oxford University Press
- 4 Group Dissussions and Interview Skills : Priyadarshi Patnaik : Foundation Books : Cambridge University Press
- 5.Thinks and Grow Rich: Napoleon Hill, Ebury Publishing, ISBN 9781407029252
6. Awaken the Giant Within: Tony Robbins HarperCollins Publishers,
ISBN-139780743409384
7. Change Your Thoughts, Change Your Life: Wayne Dyer, Hay House India,
ISBN-139788189988050
- 8 Habits of Highly Effective People: Stephen Covey Pocket Books, ISBN-13
9781416502494
- 9The Power of Your Subconscious Mind: Dr Joseph Murphy Maanu Graphics ,
ISBN-13 9789381529560
- 10- The new Leaders: Daniel Coleman Sphere Books Ltd , ISBN-139780751533811
- 11 The 80/20 Principal: by Richard Koch, Nicholas Brealey Publishings ,
ISBN-13 9781857883992
- 12 Time management from inside out: Julie Morgenstern, Owl Books (NY),
ISBN-13 9780805075908
- 13.Wonderland of Indian Manageress: Sharu Ranganekar, Vikas Publishing Houses,
ISBN-13 9788125942603
14. You can win: Shiv Khera, Macmillan, ISBN-139789350591932
15. **The Ace of Soft Skills: Attitude, Communication and Etiquette for Success:**
Gopalaswamy Ramesh, Mahadevan Ramesh



Why Drone?

Now a Days Drone are supreme devices which are coming in to market for penetrating in worlds technology and people around the world are looking for a good business to utilize the capacities of the machines to best effects.

Comparison between robot and Drone

Drones are semi-autonomous vehicles start on from larger spacecraft designed to expand the launching ship's capabilities. It's a Unmanned vehicle

A robot is a machine, which is a mechanical or essential artificial agent. It is an electro-mechanical machine that is directed by a computer program or electronic circuitry. It's a Virtual artificial agent

Application of Drone.

There are some very basic uses while there are also some really creative ideas that you could make use of, there are some as follow,

- Remote sensing
- Commercial aerial surveillance
- Domestic policing
- Oil, gas and mineral exploration and production
- Transport of materials
- Scientific research
- Armed attacks
- Aerial target practice in training of human pilots
- Search and rescue
- Conversation
- Maritime patrol
- Forest fire detection
- Archaeology
- Future potential



People's Empowerment Group
ISB&M SCHOOL OF TECHNOLOGY, NANDE, PUNE
DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGG.
Academic Year 2017 -18

About Drona Aviation who has conducted a workshop in ISB&M School of Technology.

Drona Aviation

Drona Aviation is an IIT Bombay drone startup. We build robust and easy to use nano-drones platform for drone developers through Pluto.

About Workshops:

They have conducted a workshops for students in IITB campus teaching them how to build drones including:

- Aerodynamic principles of UAVs
- Electronics in drones
- Building quadrotor - Pluto
- Flying self-built drone

They have conducted workshops pan India in

Companies Tata Steel, L&T, Winijt Technologies, Motilal Oswal and others

Colleges KJ Somaiya, Gujarat Tech Univ, AVCOE, SIES, Zeal College Pune, Orchid Solapur among others

Schools American School of Bombay, Euro School, Navrachna Int'l, SNK Rajkot among others

They are parallelly working with KReSIT for eYantra - pan India Robotics competition with Pluto. This is aimed towards building a developer community

Testimonials

Check out student testimonials here:

[Website](#)

[Facebook](#)

We have been featured in the media too:

[The Economic Times](#)

[MID-Day 1](#)

[TATA Steel Limited](#)



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DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGG.
Academic Year 2017 -1 8

DAY III WORKSHOP :-

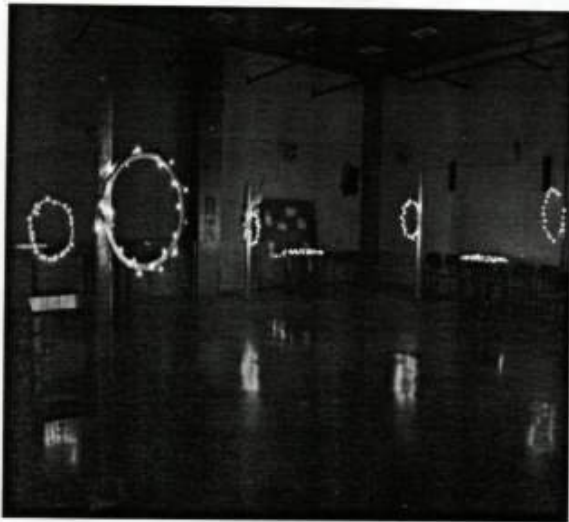


Photo 5:- Drone Premier league setup



Photo 6:- Principal with other dignitaries visited the DPL

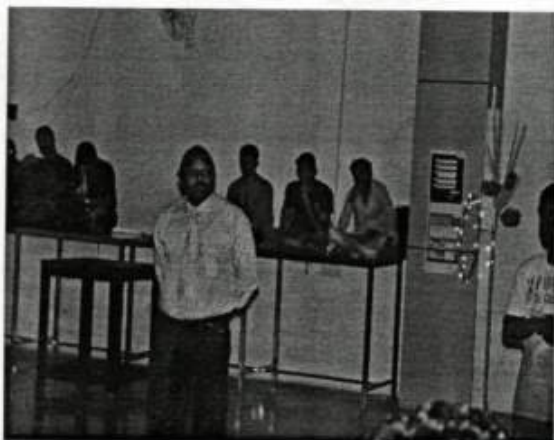


Photo 7:- Dr. Virendra Verma addressing students



Photo 8:- Racing League



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DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGG.
Academic Year 2017 -1 8

Photos Of the EVENT

DAY I WORKSHOP :-



Photo 1:- Inauguration by Principal



Photo 2:- Students listening to the trainer

DAY II WORKSHOP:-



Photo 3:- Students working on Drone



Photo 4:- Nano-Drone made by students

Nano-Drone Workshop

DRONA AVIATION

a SINE IT Bombay Enterprise

CERTIFICATE OF COMPLETION

Awarded to

Mr. *MS Hazare Digambar Hojare Manteshwar D.*
from

for successfully completing the workshop on

"Design and fabrication of nano-quadrotor *Pluto*"

held on *22-24 Feb 2018* at *T.S.B.M. School, At..technology.*



Chief Operating Officer



Prabhu

Flight Instructor



Peoples Empowerment Group

ISB & M SCHOOL OF TECHNOLOGY

Sr. No. 44/1, 44/1/2, Nandegaon, Tal. Mulshi, Dist. Pune – 412115

DEPARTMENT OF E&TC ENGINEERING

Academic Year 2017-18

Day 1:- In the first session, Formal inauguration of **PCB DESIGN WORKSHOP (CERTIFICATION COURSE)** by Principal sir Dr. P.K.Srivastava & Prof. P.A.Kale HOD E&TC. After inauguration ceremony, Mr. Abhigyanam technical head of the IndEyes Infotech Pvt. Ltd, enlightened about printed circuit board design. They have given introduction about design process and the PCB Wizard software.

NO. OF STUDENT PARTICIPATED: 58(ALL BRANCH STUDENTS FROM FE TO BE)

Following has been accomplished in this session.

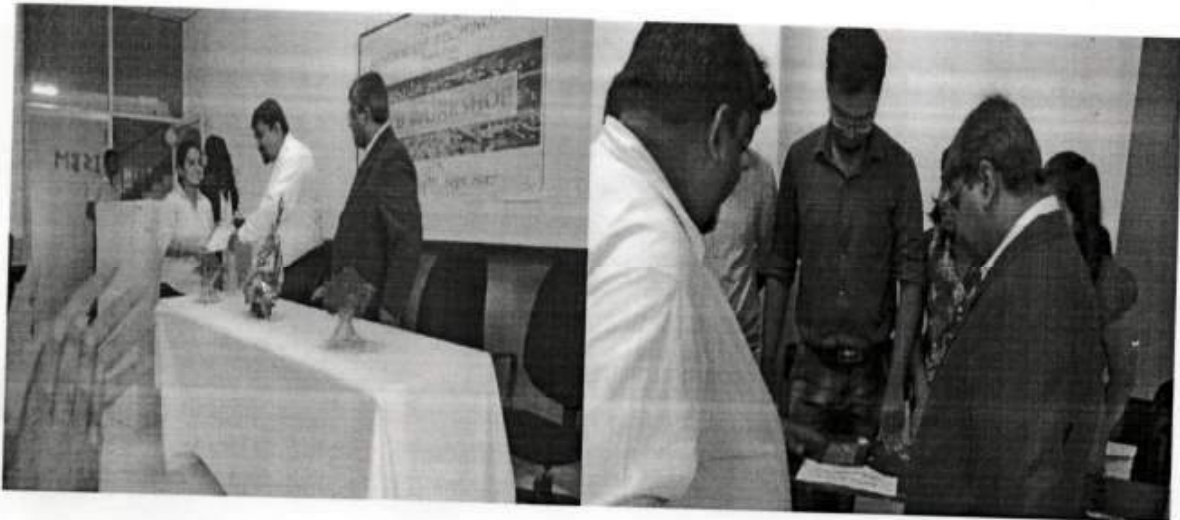
- Circuit design on PCB WIZARD Software.
- Layout Print on copper plate.



Day 4:- Students have undergone with various process of design which are as follows:

- Soldering
- Troubleshooting

Project exhibition was accomplished. Distribution of Certificate was carried out by honorable Executive Director ISB&M Dr. Anirbhan Sen Gupta sir alongwith Principal ISB&M School of Technology Dr. P.K.Srivastava.





CERTIFICATE

of participation

is proudly presented to

Yugandhara Waiker

for outstanding contribution as a participant in the Printed Circuit board workshop.

Dated 19/09/17 to 15/09/17

Venue being ISB&M School of Technology, Nande, Pune.


Authorized Signatory

Third Engineering-E&TC (2015 Course)

(With effect from Academic Year 2017-18)

Semester I													
Course Code	Course	Teaching Scheme			Semester Examination Scheme of						Credits		
		Hours / Week			Marks								
		Theory	Tutorials	Practicals	In-Sem	End-Sem	TW	PR	OR	Total	TH/TW	PR+OR	
204181	Digital Communication	4	—	—	30	70	—	—	—	100	4	—	
204182	Digital Signal Processing	4	—	—	30	70	—	—	—	100	4	—	
204183	Electromagnetics	3	1	—	30	70	—	—	—	100	4	—	
204184	Microcontroller	3	—	—	30	70	—	—	—	100	3	1	
204185	Mechatronics	3	—	—	30	70	—	—	—	100	3	1	
204191	Signal Processing and Communications Lab (DC, DSP)	—	—	4	—	—	50	50		100	—	2	
204192	Microcontroller and Mechatronics Lab	—	—	4	—	—	50	50		100			
204193	Electronics System Design	2	—	2	—	—	—	—	50	50	2	1	
	Audit Course 3	—	—	—	—	—	—	—	—	—	—	—	
	Total	20	1	20	150	350	100	100	50	750			
											Total Credits		25

Abbreviations:

TH: Theory

TW: Term Work

OR: Oral

PR: Practical

Note: Interested students of T.E (Electronics E&TC) can opt any one of the audit course from the audit courses prescribed by BoS (Electronics/Computer/EE/Electrical/Instrumentation)

Third Engineering-E&TC (2015 Course)

(With effect from Academic Year 2017-18)

Semester II												
Course Code	Course	Teaching Scheme Hours / Week			Semester Examination Scheme of Marks						Credit	
		Theory	Tutorial	Practicals	In-Sem	End-Sem	TW	PR	OR	Total	TH/TW	PR+OR
304186	Power Electronics	4	--	--	30	70	--	--	--	100	4	--
304187	Information Theory, Coding and Communication Networks	4	--	--	30	70	--	--	--	100	4	--
304188	Business Management	3	--	--	30	70	--	--	--	100	3	--
306189	Advanced Processors	4	--	--	30	70	--	--	--	100	4	1
304190	System Programming and Operating Systems	3	--	--	30	70	--	--	--	100	3	1
304194	Power and ITCT Lab	--	--	4	--	--	50	50	--	100	--	2
304195	Advanced Processors and System Programming Lab	--	--	4	--	--	50	50	--	100	--	--
304196	Employability Skills and Mini Project	2	--	2	--	--	--	--	50	50	2	1
	Audit Course 4	--	--	--	--	--	--	--	--	--	--	--
Total		20	--	10	150	350	100	100	50	750		
Total Credits											25	

Abbreviations:

TH: Theory
TW: Term WorkOR: Oral
PR: Practical

Note: Interested students of T.E (Electronics/E&TC) can opt any one of the audit course from the audit courses prescribed by BoS (Electronics/Computer/IT/Electrical/Instrumentation)

304188**Business Management****Credits: 03****Teaching Scheme:**

Lecture : 03 hr/week

Tutorial:

Examination Scheme:

In-Sem : 30 Marks

End-Sem : 70 Marks

Term Work :

Course Objectives:

- To get awareness about various domains in Business Management.
- To understand concept of Quality Management, Financial Management and Project Management.
- To learn Human Resource Management, marketing management are the major links in Business.
- To promote Entrepreneurship.

Course Outcomes:

On completion of the course, student will be able to

- 1) Get overview of Management Science aspects useful in business.
- 2) Get motivation for Entrepreneurship.
- 3) Get Quality Aspects for Systematically Running the Business.
- 4) To Develop Project Management aspect and Entrepreneurship Skills.

Course Contents**Unit I: Basics of Business Management****(8 Hrs)**

Introduction, Definition of management, characteristics of management, functions of management - Planning, Organizing, Staffing, Directing, Co-ordination, Controlling, Motivating, Communication, Decision Making, Principles of management - F.W.Taylor, Henry Fayol, Elton Mayo, Administration and management, Nature of management, levels of management, scientific management, managerial roles, Forms of Organization- Line , Line -staff,committee etc. Dist Business sectors & forms of business organizations- private sector,Cooperative sectors, public sector, joint sector, Services sector, Various forms of business organizations - Sole Proprietorship, Partnership firms, Joint stock companies -their features, relative merits, demerits & suitability. Concept of globalization

Unit II: Quality Management**(6 Hrs)**

Definition of quality, goalpost view of quality, continuous improvement definition of quality, types

of quality – quality of design, conformance and performance, phases of quality management, Juran's and Deming's view of quality, Quality Management Assistance Tools: Ishikawa diagram – Pareto Analysis – Pokka Yoke (Mi stake Proofing) quality circles, TQM, Kaizen, Five S (5S), Six sigma Quality Management Standards Application of six sigma a CASE study - The ISO 9001:2015 Quality Management System Standard. Software quality management with respect to CMM level and ISO standard.

Unit III : Financial Management and Project Management (6 Hrs)

Capital Structure, Fixed & working capital, Cash flow, Financial accounting concepts and application, Scope of business, Macro analysis, micro analysis, Demand and supply analysis. Function of money market and capital Market, sources of finance: Introduction to capital budgeting, Techniques of capital budgeting: Break even analysis - assumptions, importance, Cost-Benefit analysis. Introduction to Project Management process (Project Life cycle Management), Project selection criteria, project scope, Project planning, scheduling, Resources and constraints. Project estimates and costing. Project qualitative and quantitative Risk analysis and Mitigation, project quality planning and deliverables. Case study of a project Management.

Unit IV : Human Resource Development (6 Hrs)

Strategic importance HRM, objectives of HRM, challenges to HR professionals, role, Responsibilities and competencies of HR professionals, HR department operations, Human Resource Planning - objectives and process, human resource information system. Talent acquisition; recruitment and selection strategies, career planning and management, training and development, investment in training program, executive development, Case study on Recent trends in Human Resource Development. Case study of a HR of an organization.

Unit V : Entrepreneurship Development (6 Hrs)

Concept of entrepreneurship, Identification of business opportunities, Generation of business idea, Business plan, Preparation of business proposal, Sources of finance – government and non-government agencies, Policies and incentives for small business development, Government policies and incentives, Woman entrepreneurship, Industrial relations, Case study on Small scale industries in India.

Unit VI : Marketing (6 Hrs)

Introduction to marketing, marketing environment, segmentation. Consumer behavior and Marketing management. Marketing research, pricing, advertising, branding and packaging. Personal selling and sales force Management Modern marketing system (digital Marketing marketing) Email Marketing, Social Media Marketing, Web Marketing, Google (Google Analytics, Advertising and

Applications), Facebook, LinkedIn, Twitter, Guides & Directories, Online Publications etc for sales, customer services, staff recruitment etc. Blogging and Micro Blogging. Event Management, Online Payments, Disability Web Access, Surveys & Forms, Affiliate & Voucher Marketing, Crowd sourcing, Mobile Social Media (G+tagging etc) and Mobile Marketing, Mobile Applications (Apps and Mobile Web), Audio , Video podcasting.

Introduction to supply chain management and customer relationship management

Text Books:

- 1) O. P. Khanna, "Industrial Engineering and Management", Dhanpatrai publications Ltd, NewDelhi.
- 2) L.C. Jhamb ; Savitri Jhamb , Industrial Management – I, Everest Publishing House .
- 3) Jennifer Goense, Andrew Stellman,Head First PMP 3rd Edition O'REILLY Publication
- 4) Marketing Management-Philip Kotlar, The Millennium Edition, PHI EEE Edition.

Reference Books:

- 1)G. S. Bhatia , "Development of entrepreneurship " , deep and deep publications, new delhi
- 2) Ashwathappa, "human resource management" , mc-gra w-hill education (india) Pvt. Ltd.
- 3) M.Y. Khan and P. K. Jain, "financial management" , mc-graw-hill education (india) Pvt. Ltd.
- 4) Ravi M. Kishore, "project management" , mc-graw-h ill education (india) Pvt.
- 5) Pravin kumar, " fundamentals of engineering economics", wiley india
- 6) Munga. ia. Financial Accounting: conceptsand Applications, multipaperbacks
- 7) Business organization and management by dr. C. B. Gupta, publisher sultan chand & co. Delhi
- 8) Fundamentals of accounting & financial analysis. by Anil Chowdhry (Pearson education)
- 9) Textbook of economic theory - Stonier and Hague, LongmanGreen and co., london.
- 10) managerial economics - theory and application - D. M. Mishra



People's Empowerment Group
ISB&M SCHOOL OF TECHNOLOGY, NANDE, PUNE
Academic Year 2017-18

REPORT ON

"Five Days Program on Personality Development"

Date: 1st to 29th July 2017

ISB&M School of Technology, Pune organized a **Five Days Program on Personality Development** for final year students of ISB&M School of Technology, Nande, Pune.

The purpose of the program was to bring together students of college to learn about behavioral ethics, leadership, time management and how to face aptitude test and interview.

We took Students' feedback which will be helpful for us in future and we also have their attendance sheet. All this data is enclosed with this report.

The program concluded on 29th July 2017 at 05.00pm.

Prof. S. K. Asrani

TPO

Dr. P.K. Srivastava

Principal



People's Empowerment Group
ISB&M SCHOOL OF TECHNOLOGY, NANDE, PUNE
Academic Year 2017-18

Photos





Peoples Empowerment Group
ISB&M SCHOOL OF TECHNOLOGY, NANDE, PUNE
DEPARTMENT OF MECHANICAL ENGINEERING
Academic Year 2017-18

WORKSHOP SUMMARY REPORT ON

"Five Days CATIA Workshop"

Date: 19/8 to 3/9/ 2017

On 19th Aug. to 3rd Sept. 2017 under the Department of Mechanical Engineering ISB&M School of Technology, Pune organized a Five Days CATIA Training Workshop for the Final year students of ISB&M School of Technology, Nande, Pune.


At 9.00 A.M. Event was inaugurated by Dr.P.K.Srivastava, Principal ISB&M,SOT,Nande Pune.

Event coordinator for the workshop, Prof. Yogendra Jain addressed that "The aim of workshop is to expose the students to the CATIA Software and its application. This workshop will also provide hands on experience to CATIA part modeling,Assembly Design,Drafting,Sheet metal design.

Mr.Rajiv Harpude From NRS Tech delivered theory session on CATIA user guide interface and also provide hands on practice along with Prof.Yogendra Jain From Department of Mechanical Engineering,ISB&M,SOT.

Corresponding, lab session going on with his lecture in CAD Lab1 & CAD Lab2.


Event Coordinator


HOD



Peoples Empowerment Group
ISB&M SCHOOL OF TECHNOLOGY, NANDE, PUNE
DEPARTMENT OF MECHANICAL ENGINEERING
Academic Year 2017-18



Students listening to the trainer



Students working on CATIA Software



NRS TECH

Flat No. 11, Ruby Residency, Above Honda Showroom
Dhayri Fata, Narhe-41
Email Id: nstech16@gmail.com
Mob. No. : 8087201170, 8275557087, 9767273428

CERTIFICATE

This is to certify that Akash Bansode successfully completed his training in Catia V5R21, also completed a project work on Material Handling Equipment Design in our design department during the period 19/8/2017 to 03/09/2017 under the guidance of Mr. Swapnil Maskar.

During the period of his intern/project work with us, he found punctual hardworking & inquisitive.

We wish him every success in life.

NRS TECH not provides any source code.

Swapnil Maskar

For NRS TECH



Signature & Stamp



Peoples Empowerment Group
ISB&M SCHOOL OF TECHNOLOGY, NANDE, PUNE
DEPARTMENT OF MECHANICAL ENGINEERING
Academic Year 2017-18

WORKSHOP SUMMARY REPORT ON

**“Five Days CMM -CALYPSO Software Workshop for Third Year
Students”**

Date: 23rd to 27th March 2018

On 23rd to 27th March 2018 under the Department of Mechanical Engineering ISB&M School of Technology, Pune organized a **Five Days Calypso Software Training Workshop** for the third year students of ISB&M School of Technology, Nande, Pune.

At 9.00 A.M. Event was inaugurated by Dr.P.K.Srivastava, Principal ISB&M,SOT,Nande Pune.

Event coordinator for the workshop, Prof. Sagar Durgawade addressed that “The aim of workshop is to expose the students to the use of Calypso Software and its applications. This workshop will also provide hands on experience with Calypso software.

Prof. Sagar Durgawade along with Prof.P.S.Gaikwad, Department of Mechanical Engineering, gave a lecture on Co-ordinate Measuring Machine, Basic Information about Calypso Software and also hands on practice on Calypso Software.

Corresponding, lab session going on with his lecture in the Cad lab.

Event Coordinator

HOD



Peoples Empowerment Group
ISB&M SCHOOL OF TECHNOLOGY, NANDE, PUNE
DEPARTMENT OF MECHANICAL ENGINEERING
Academic Year 2017-18



CMM CALYPSO Software



Student Working on CMM CALYPSO Software

Calypso. The fast and reliable way from CAD model to finished measuring program.

Calypso under Windows NT.

- ▶ **Calypso imports CAD data and instantly creates error-free measuring programs.**
- ▶ **Calypso "thinks" like a metrologist. The flexible inspection plan replaces programming in sequences.**

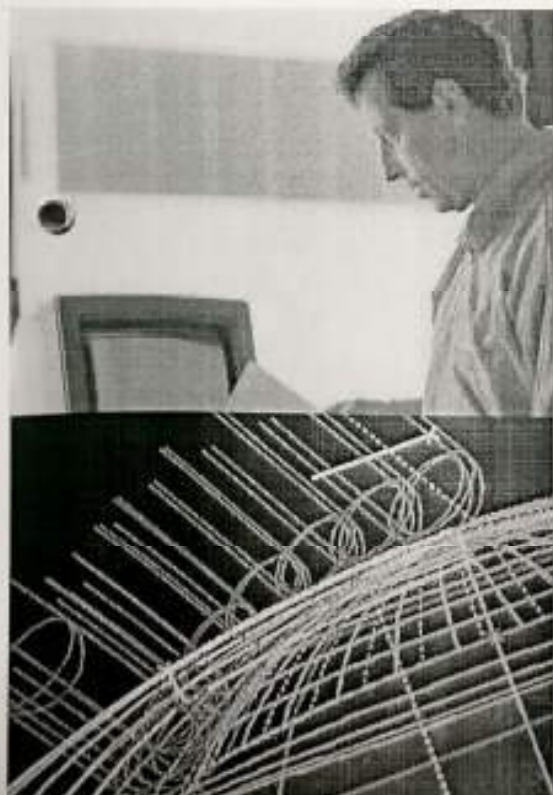
▶ **Calypso provides reliable measuring runs and correct results with high system intelligence.**

▶ **Calypso is user-friendly, intuitive, dialog- and graphics-oriented.**

Direct import of CAD data. The fastest way to your measuring program.

Calypso has a direct interface to all major CAD formats. This means that 3D models are transferred directly from the finished design to your measuring programs. In addition, DMIS data can also be imported and processed. All operations are performed in just one system and programming times are drastically reduced. The need for manual input of nominals or learn programming is eliminated – and errors are practically eliminated. Multiple conversions and intermediate steps, which in the past frequently lead to tolerance problems, are a thing of the past.

*One system environment.
From design and production ...*





People's Empowerment Group

ISB&M SCHOOL OF TECHNOLOGY, PUNE

in association with



CARL ZEISS IND. PVT. LTD

This is to certify that Mr. / Miss Akshay Bendke.....
have successfully completed the course of CMM Software "CALYPSO" organized at
ISB&M SOT, Pune, dated 27th March 2018... and completed all assignments
successfully.

Event Co-ordinator

**HOD
Mechanical**

**PRINCIPAL
ISB&M SOT**

Savitribai Phule Pune University, Pune
Third Year of Mechanical
(2015 Course)

Course Code: 302046

Course Name: Skill Development

Teaching Scheme:	Credits	Examination Scheme:
PR: – 2 Hrs/ Week	TW/PR:–01	TW:– 25 PR:– 25

COURSE OBJECTIVES

1. To develop the skill for required in shop floor working.
2. To have knowledge of the different tools and tackles used in machine assembly shop.
3. Use of theoretical knowledge in practice.
4. Practical aspect of the each component in the assembly of the machine.

Course Contents

List of Experiments

1. Tail stock assembly
2. Valve Assembly (PRV, Sluice valve, Steam stop valve)
3. IC engine of Two Wheeler (4 stroke single cylinder)
4. Hermetically sealed compressor
5. Hydraulic actuator
6. Industrial Gear box
7. Sheet drawing (Sheet will be given per group and a group consist of 04 students. The sheet will be drawn manually by every student)

Note: 1-6 experiments are for assembly and disassembly only

Term-Work

1. Sheet drawing of assembly, which should contain the display of Geometric tolerances, Limits, Fits, BOM, Dimensional measurements techniques. Special Operations. Students should make process sheet of each assembly. (One topic per four students group will be given for sheet drawing and each student should draw the sheet manually)

Practical Examination

Practical examination will be based on opening and closing of any assembly. In addition to this some questioning will be asked to the student based on assembly drawing, GD&T Sequencing and tools and tackles. For this the assemblies and their drawings should be provided to students for examination

Note: Term work will carry 25 Marks and practical examination will carry 25 marks.

- A. The assessment has to be carried out based on close monitoring of involvement and intellectual contribution of student.
- B. The student should maintain the record of work in the form of diary and has to be submitted at the end of semester.
- C. The batch teacher should assess the concerned student.

202047: Soft Skills		
Teaching Scheme:	Credits	Examination Scheme:
TH: -- hr/week	Th/Tut: --	TH In-Sem: -- End-Sem: --
PR: 02 hrs/week	PR: 01	PR: -- OR: -- TW: 15

Course Objectives:

- To develop students overall personality.
- To understand and aware about importance, role and contents of soft skills through instructions, knowledge aquisition, demonstration and practice. To improve his writing and documentation skills.

Course Outcomes:

On completion of the course, learner will be able to-

- Improved communication, interaction and presentation of ideas.
- Right attitudinal and behavioural change
- Developed right-attitudinal and behavioral change

Course Contents**Term Work/Assignments**

Term work will consist the record of any 6 assignments of following exercises

1. SWOT analysis**(4 Hrs)**

Student should do his/her SWOT analysis & submit the report.

Method of Execution

Explain the meaning & benefits of SWOT analysis to students. Give them time to think on their strength, weaknesses, opportunities & threats. Ask them to write their own SWOT analysis

2. Listening Skills**(4 Hrs)**

Listen to a short audio book and make notes out of it & make a report.

Method of Execution

Ask every students to download any freely available english audio book of one hour duration. Also ask them to listen it carefully and write it's review on journal paper

3. Oral presentation skills/Speaking Skills (4 Hrs)

Hold the poster of any inspirational personality & speak about his/her life for five minutes.

Method of Execution

The personality can be from the fields like sports, politics, literature, entertainment etc. Ask every students to read & study about thierespective personality & deliver the oral presentation infront of his/her batchmates.

4. Resume writing (4 Hrs)

Design a cover letter & resume for yourself.

Method of Execution

Show some of the different resumes according to respective job profiles to students & ask them to prepare their own resume. Also guide them to write a cover letter for any job application.

5. Corporate / Business Etiquettes (4 Hrs)

Apply to any five internship openings over internet by writing an email to the company HR. Students must submit email print.

Method of Execution: Tell students about any five recent internship openings & ask them to apply for same through email with resume as an attachment. Ask students to take a sent mail print for submission record

6. Group Discussion (4 Hrs)

Organize the group discussion on a current topics in a batch of ten students & ask every student to make minutes of meeting & submit.

Method of Execution: Take some of the current topics for group discussion, divide students in two batches of ten students in each, Allot 10 minutes time & one topic for discussion, meanwhile instructor have to assess each student's performance & give feedback to respective student. Also ask students to write the minutes of the meeting from same GD

7. Team Activity (4 Hrs)

Make a 20 minutes english video documentary & post it on a social media. Also provide the link of the same as submission record.

Method of Execution: Make a group of four students & guide them to choose a topic for making a video documentary. Video can be posted on facebook, twitter or youtube. The video can be recorded on cellphone as well

Books:

Text:

1. Basics Of Communication In English : Francis Sounderaj, MacMillan India Ltd.2
2. English for Business Communication : Simon Sweeney , Cambridge University Press
3. An Introduction to Professional English And Soft Skills : Das , Cambridge University Press

Reference:

1. A course in Listening and Speaking Vol I & Vol II, V.Sasikumar, P. Kiranmai, Geetha Rajeevan, Cambridge University Press
2. Cambridge English For Job Hunting : ColmDownes, Cambridge University Press
3. The Complete Letter Writer :MacMillan India Ltd
4. E Writing – 21st Century Tools for Effective Communication :Bocher , MacMillan India Ltd
5. NASSCOM-Global Business Foundation Skills: Cambridge University Press

**Structure of S.E. (Mechanical Engineering/ Automobile Engineering)
2015 Course**

Semester-I

Subject Code	Subject	Teaching Scheme			Examination Scheme					Total Marks	Credits	
		Hours/Week			In-Sem (online)	End-Sem	TW	PR	Oral		Lect/Tut	PR/OR
		L	Tut	PR								
202002	Engineering Mathematics - III	04	01	-	50	50	25	-	-	125	03	-
202041	Manufacturing Process-I	03	-	02	50	50	50	-	-	150	03	01
202042	Computer Aided Machine Drawing	01	-	02	--	--		50	-	50	01	01
202043	Thermodynamics	04	-	02	50	50	-	-	50	150	04	01
202044	Material Science	03	01	-	50	50	25	-	-	125	03	01
202051	Strength of Materials	04	-	02	50	50	-	-	50	150	04	01
202055	Audit course											
	Total	19	02	08	250	250	100	50	100	750	20	05
	Total of Part-I	29 Hrs					750				25	

Note: Material Science and Engineering Mathematics-III practical may be carried out fortnightly for two hours, so that the tutorial hours may be used as practical.

Semester-II

Subject Code	Subject	Teaching Scheme			Examination Scheme					Total Marks	Credits	
		Hours/Week			In-Sem (online)	End-Sem	TW	PR	Oral		Lect/Tut	PR/OR
		L	Tut	PR								
202045	Fluid Mechanics	04	-	02	50	50	-	50	-	150	04	01
202047	Soft Skills	-	-	02	--	--	25	-	-	25	-	01
202048	Theory of Machines - I	04	01	-	50	50	25	-	25	150	04	01
202049	Engineering Metallurgy	03	01	-	50	50	-	-	25	125	03	01
202050	Applied Thermodynamics	04	-	02	50	50	-	50	-	150	04	01
203152	Electrical and Electronics Engineering	03	-	02	50	50	25	-	-	125	03	01
202053	Machine Shop - I	-	-	02	--	--	25	-	-	25	-	01
	Total	18	02	10	250	250	100	100	50	750	18	07
	Total of Part-II	38 Hrs					750				25	

Note: Theory of Machine-I and Engineering Metallurgy practical may be carried out fortnightly for two hours, so that the tutorial hours may be used as practical.

Audit Course1

In addition to credits courses, it is recommended that there should be audit course (non-credit course) from second year of Engineering. The student will be awarded grade as AP on successful completion of audit course. The student may opt for one of the audit courses, starting in second year first semester. Though not mandatory, such audit courses can help the student to get awareness of different issues which make impact on human lives and enhance their skill sets to improve their employability. List of audit courses offered in each semester is provided in curriculum. Student can choose one audit course from the list. Evaluation of audit course will be done at institute level. Method of conduction and method of assessment for audit courses is suggested.

The student registered for audit course shall be awarded the grade AP and shall be included such grade in the Semester grade report for that course, provided student has the minimum attendance as prescribed by the Savitribai Phule Pune University and satisfactory in-semester performance and secured a passing grade in that audit course. No grade points are associated with this 'AP' grade and performance in these courses is not accounted in the calculation of the performance indices SGPA and CGPA. Evaluation of audit course will be done at institute level itself.

[Ref-[http://www.unipune.ac.in/Syllabi_PDF/revise-](http://www.unipune.ac.in/Syllabi_PDF/revise-2015/engineering/UG_RULE_REGULATIONS_FOR_CREDIT_SYSTEM-2015_18June.pdf)

[2015/engineering/UG_RULE_REGULATIONS_FOR_CREDIT_SYSTEM-2015_18June.pdf](http://www.unipune.ac.in/Syllabi_PDF/revise-2015/engineering/UG_RULE_REGULATIONS_FOR_CREDIT_SYSTEM-2015_18June.pdf)]

Guidelines for Conduction and Assessment (Any one or more of following but not limited to)

- Lectures/ Guest Lectures
- Visits (Social/Field) and reports
- Demonstrations
- Surveys
- Mini Project
- Hands on experience on specific focused topic

Guidelines for Assessment (Any one or more of following but not limited to)

- Written Test
- Demonstrations/ Practical Test
- Presentations
- IPR/Publication
- Report

List of courses under Audit Course1

Course Code	Audit Course Title
202054 A	Road Safety
202054 B	Innovations in engineering field / Agriculture
202054 C	Value Education

The detail course contents of above mentioned audit courses are available in Mechanical Engineering 2015 course syllabus. Moreover students can opt for any other audit course from the list of Audit Course1 of any branch of engineering.

202054 B : Road Safety

Prerequisites:

1. Awareness about traffic rules and road accidents.
2. Understanding the need of studying such topics.
3. Considerations to other, sensitivity and care while travelling/ driving.

Course Objectives:

- To acquire knowledge and understanding of the road environment.
- To inculcate decision making and behavioral skills necessary to survive in the road environment.
- To impart knowledge and understanding of the causes and consequences of accidents.
- To understand roles and responsibilities in ensuring road safety.

Course Outcomes:

On completion of the course, learner will be able to-

- Generate awareness about number of people dying every year in road accidents, traffic rules and characteristics of accident.
- Gain information and knowledge about people responsible for accidents and their duties
- Understand the importance of multidisciplinary approach to planning for traffic safety and rehabilitation
- Acquire a certificate of coordination/ participation in compulsory events based on the topic under study

Course Contents

Unit I: Introduction to Road Safety **(2 Hrs)**
Road traffic accidents scenario in India and in world. Road Safety and its importance. Traffic Rules and Driving Behavior. Characteristics of accidents, accidents vs. crash.

Unit II: Planning for Road safety **(2 Hrs)**
Awareness about rules and regulations of traffic. Assisting Traffic control authorities. Multidisciplinary approach to planning for traffic safety and injury control. Vulnerable road users: crashes related to pedestrian and bicyclists, their safety, provision for disabled.

Unit III: Responsibility of Road accidents and Safety measures **(2 Hrs)**
People responsible for accident prevention: Police, Politicians, Community members, Policy makers, Teachers, Parents, Infrastructure authorities, Drivers and Official road safety body. Reasons of students/ children have accidents. 4 E's of Accidents Prevention: 1. Engineering - by altering the environment 2. Enforcement - by imposing laws 3. Encouragement - by the use of publicity campaigns 4. Education - by gaining and using knowledge.



Date: 15/09/2016

REPORT

1. Introduction

MongoDB is a free and open-source cross-platform document-oriented database program. Classified as a NoSQL database program, MongoDB uses JSON-like documents with schemata. MongoDB is developed by MongoDB Inc., and is published under a combination of the GNU Affero General Public License and the Apache License.

Apache Hadoop is a collection of open-source software utilities that facilitate using a network of many computers to solve problems involving massive amounts of data and computation. It provides a software framework for distributed storage and processing of big data using the MapReduce programming model.

2. Objectives

- Branding of ISB&M School of Technology.
- To make participants capable to work on Hadoop and MongoDB.
- To create a channel of communication for students willing to take admission in engineering.

3. Event schedule

Workshop is conducted on 10th to 15th of Sep, 2016 at ISBM School of Technology, Nande.

Five day event was started on 10th of Sep 2016. Event was inaugurated by Dr. P. K. Srivastava, Dr. V. Naik, Dr. Bharti Pawar, Prof. S. K. Asrani and all Engineering Hod's. Guest bodies shared their valuable words with participants.

Actual session of event started at 10 am. Session first was an introduction conducted by TE student Yash Mestry. Second session was followed by short tea break. Installation process is carried out by student coordinators. They helped all the students with proper setup and prerequisite files required for android studio installation. Each and every student was satisfied with the team work of coordinators.





Address By respected Principal sir after Student Participants Inauguration



Speaker while explaining MongoDB concept. Practical session





Practical Session



Well wishes to the students on last Day of workshop.

Workshop was a great success thanks to beloved Principal Sir for supporting and helping us in every manner.





Speed TechServe Pvt. Ltd. (OPC)

Leads you to satisfaction!

Certificate

This is to certify that *Mr. Miss.*

Tripti Jagtap

has successfully completed training course in

Mongo DB & Hadoop

From *10th Sep, 2016* to *15th Sep, 2016*

Date: *15/09/2016*

Authority Signatory

Savitribai Phule Pune University, Pune
Second Year of Computer Engineering (2015 Course)
210250 Audit Course I
ACI-III: Environmental Studies

Environmental studies are the field that examines this relationship between people and the environment. An environmental study is an interdisciplinary subject examining the interplay between the social, legal, management, and scientific aspects of environmental issues.

Course Objectives:

- Understanding the importance of ecological balance for sustainable development.
- Understanding the impacts of developmental activities and mitigation measures.
- Understand and realize the multi-disciplinary nature of the environment, its components, and inter-relationship between man and environment
- Understand the relevance and importance of the natural resources in the sustenance of life on earth and living standard

Course Outcomes:

On completion of the course, student will be able to–

- Comprehend the importance of ecosystem and biodiversity
- To correlate the human population growth and its trend to the environmental degradation and develop the awareness about his/her role towards environmental protection and prevention
- Identify different types of environmental pollution and control measures
- To correlate the exploitation and utilization of conventional and non-conventional resources

Course Contents

1. **Natural Resources:** Introduction, Renewable and non-renewable, Forest, water, mineral, food, energy and land resources, Individual and conservation of resources, Equitable use of resources.
2. **Ecosystems:** Concept, Structure, Function, Energy flow, Ecological succession, Forest, grassland, desert and aquatic ecosystems - Introduction, characteristic features, structure and function.
3. **Biodiversity:** Genetic, Species and ecological diversity, Biogeographical classification of India, Value and hot spots, Biodiversity at global, national and local levels, India as mega-biodiversity nation, Threats to biodiversity, Endangered and endemic species of India, Conservation of Biodiversity, Endangered and endemic species, Conservation of biodiversity.
4. **Pollution:** Definition, Causes, effects and control measures of the pollution – Air, soil, Noise, Water, Marine and Thermal and Nuclear Pollution, Solid waste management, Role of Individual in Prevention of Pollution, Pollution case studies, Disaster management

Reference:

1. Bharucha, E., "Textbook of Environmental Studies", Universities Press (2005), ISBN-10:8173715408
2. Mahua Basu, "Environmental Studies", Cambridge University Press, ISBN-978-1-107-5317-3

Audit Course-I
204192: Road Safety Management

Road transport remains the least safe mode of transport, with road accidents representing the main cause of death of people. The boom in the vehicle population without adequate road infrastructure, poor attention to driver training and unsatisfactory regulation has been responsible for increase in the number of accidents. India's vehicle population is negligible as compared to the World statistics; but the comparable proportion for accidents is substantially large.

The need for stricter enforcement of law to ensure greater safety on roads and an environment-friendly road transport operation is of paramount importance. Safety and security are growing concerns for businesses, governments and the traveling public around the world, as also in India. It is, therefore, essential to take new initiatives in raising awareness, skill and knowledge of students as one of the ibid stake holders who are expected to follow the rules and policies of the government in order to facilitate safety of individual and safe mobility of others.

Course Objectives:

- Provide basic overview on road safety & traffic management issues in view of the alarming increase in vehicular population of the country.
- Insight into the transportation system management (TSM) techniques.
- Overview of the engineering & legislative measures for road safety.
- Discuss measures for improving road safety education levels among the public.

Course Outcomes:

On completion of the course, society will observe –

- Changes in awareness levels, knowledge and understanding
- A change in attitudes / behavior e.g. against drink-drive;
- Casualty Reduction;
- That remedial education for those who make mistakes and for low level offences where this is more effective than financial penalties and penalty points;
- Improving Road Safety Together.

Course Contents

1. Existing Road Transport Scenario
2. Accident Causes & Remedies
3. Road Accident Investigation & Investigation Methods
4. Vehicle Technology – CMVR & Road Safety
5. Regulatory / Legislative Provisions for Improving Road Safety
6. Behavioral Training for Drivers for Improving Road Safety
7. Road Safety Education
8. Road Engineering Measures for Improving Road Safety

Guidelines for Conduction (Any one or more of following but not limited to)

- Guest Lectures
- Visits and reports
- Assist authorities like RTO for audits (e.g. Particular road safety audit as critical on-site assessment of the shortcomings in the various elements of the road)
- Mini Project

Audit course-II
204193: Cyber Crime and law

Introduction to Cyber Crime and law:

Cyber Crimes, Types of Cybercrime, Hacking, Attack vectors, Cyberspace and Criminal Behavior, Clarification of Terms, Traditional Problems Associated with Computer Crime, Introduction to Incident Response, Digital Forensics, Computer Language, Network Language, Realms of the Cyber world, A Brief History of the Internet, Recognizing and Defining Computer Crime, Contemporary Crimes, Computers as Targets, Contaminants and Destruction of Data, Indian IT ACT 2000

Introduction to Cyber Crime Investigation

Firewalls and Packet Filters, password Cracking, Keyloggers and Spyware, Virus and Worms, Trojan and backdoors, Steganography, DOS and DDOS attack, SQL injection, Buffer Overflow, Attack on wireless Networks

Guidelines for Conduction

(Any one or more of following but not limited to)

- Guest Lectures
- Visiting lectures

Guidelines for Assessment (Any one of following but not limited to)

- Written Test
- Practical Test
- Presentation
- Paper
- Report

**TE(E & TC) Structure
(2012 Course v.e.f. June 2014)**

SEMESTER II

Subject Code	Subject	Teaching Scheme			Examination Scheme			Marks Total	
		Lect	Tut	Pr	In Semester Assessment Phase I	Pr	Oral		End Semester Examination Phase II
304189	Information Theory and Coding Techniques	4			30			70	100
304190	Antennas and Wave Propagation	4			30			70	100
304191	Embedded Processors	4			30			70	100
304192	Industrial Management	3			30			70	100
304193	Power Electronics	3			30			70	100
304194	Communication Lab			4				50	100
304195	Power Electronics and Embedded Lab			4				50	100
304196	Mini project and Seminar			4				50	50
	Total	18		12	150			100	750

Industrial Management (204192)

Teaching Scheme:
Lectures: 3 Hrs/ Week

Examination Scheme:

In Semester Assessment:

Phase I : 30

End Semester Examination:

Phase II: 70

Course Objectives:

- To get awareness about various domains in Industrial Management.
- To understand concept of Quality Management, Financial Management and Project Management.
- To learn Human Resource Management as one of the major tasks in industry.
- To promote Entrepreneurship.

Course Outcomes:

After successfully completing the course students will be able to

- Get overview of Management Science aspects useful in Industry.
- Get motivation for Entrepreneurship

Unit I: Basics of Management

6L

Introduction, Definition of management, characteristics of management, functions of management - Planning, Organizing, Staffing, Directing, Co-ordination, Controlling, Motivating, Communication, Decision Making, Principles of management – F.W.Taylor, Henry Fayol, Elton Mayo, Administration and management, Nature of management, levels of management, scientific management, managerial roles, Forms of Organization- Line , Line -staff,committee etc, Distinction between Traditional organization and Modern organization, concept of Globalization.

Unit II : Quality Management

6L

Definition of quality, goalpost view of quality, continuous improvement definition of quality, types of quality – quality of design, conformance and performance, phases of quality management, Juran's and Deming's view of quality, Quality Management Assistance Tools: Ishikawa diagram – Pareto Analysis – Pokka Yoke (Mistake Proofing) quality circles, TQM, Kaizen, Five S (5S), Six sigma Quality Management Standards (Introductory aspects only)- The ISO 9001:2008 Quality Management System Standard.

Unit III : Financial and Project Management

6L

Capital Structure, Fixed & working capital, Role of Securities and Exchange Board of India (SEBI), function of money market and capital Market, sources of finance. Introduction to capital budgeting, Techniques of capital budgeting. Break even analysis - assumptions, importance, Cost-Benefit analysis, CVP graph, Project Management, Planning and execution of IT projects, Project network analysis, CPM, PERT and Project crashing and resource Leveling.

Unit IV : Human Resource Development

6L

Strategic importance HRM; objectives of HRM; challenges to HR professionals; role, Responsibilities and competencies of HR professionals; HR department operations; Human Resource Planning - objectives and process; human resource information system. Talent acquisition; recruitment and selection strategies; career planning and management, training and development, investment in training programme; executive development, Case study on Recent trends in Human Resource Development.

Unit V : Entrepreneurship Development

6L

Concept of entrepreneurship, Identification of business opportunities, Generation of business idea, Business plan, Preparation of business proposal, Sources of finance – government and nongovernment agencies, Types of businesses / ownerships – Partnership, Proprietorship, Private limited company, Public limited company, Joint stock, Co-operative society, Govt. Sector etc, Policies and incentives for small business development, Government policies and incentives, Woman entrepreneurship, Industrial relations, Case study on Small scale industries in India.

Concept of data and information, characteristics of information, types of information, Definition of MIS, Need, Purpose and Objectives, Contemporary Approaches to MIS, Components of an information system, Need to study information systems, Information as a commodity, Types of information systems, Functional Business systems – sales & marketing, Human resources, accounting, manufacturing etc. Decision-making models, Types of decisions, Decision Support Systems, Introduction to e-commerce, types – B2B, B2C, C2B, C2C etc. Overview of ERP, Business Process Re-engineering.

Text books:

1. P. Khanna, "Industrial Engineering and Management", Dhanpatrai publications Ltd, New Delhi.
2. L.C. Jhamb , Savitri Jhamb , Industrial Management – I, Everest Publishing House .

Reference Books:

1. Waman S. Jawadekar, "Management Information Systems", Mc-Graw-Hill Education (India) Pvt. Ltd.
2. G. S. Batra , "Development of Entrepreneurship ", Deep and Deep Publications, New Delhi
3. Kenneth C. Laudon and Jane P. Laudon, "Management Information Systems", Eighth Edition, Pearson Education
4. Ashwathappa, "Human Resource Management", Mc-Graw-Hill Education (India) Pvt. Ltd.
5. M.Y. Khan and P. K. Jain, "Financial Management", Mc-Graw-Hill Education (India) Pvt. Ltd.
6. Ravi M. Kishore, "Project Management", Mc-Graw-Hill Education (India) Pvt. Ltd.
7. Pravin Kumar, " Fundamentals of Engineering Economics", Wiley India



REPORT ON

“Five Days Program on Soft-Skill Training”

Date: 2nd to 30th July 2016

ISB&M School of Technology, Pune organized a **Five Days Program on Soft-Skill Training** for final year students of ISB&M School of Technology, Nande, Pune.

The purpose of the program was to bring together students of college to learn about behavioral ethics, leadership, time management and how to face aptitude test and interview.

We took Students' feedback which will be helpful for us in future and we also have their attendance sheet. All this data is enclose with this report.

The program concluded on 30th July 2016 at 05.00pm.

Prof. S. K. Aarni

TPO

Dr. P.K. Srivastava

Principal



People's Empowerment Group
ISB&M SCHOOL OF TECHNOLOGY, NANDE, PUNE
Academic Year 2016-17

Photos





Peoples Empowerment Group
ISB&M SCHOOL OF TECHNOLOGY, NANDE, PUNE
DEPARTMENT OF MECHANICAL ENGINEERING
Academic Year 2016-17

WORKSHOP SUMMARY REPORT ON

“Five Days CATIA Workshop”

Date: 20/8 to 4/9/ 2016

On 20th Aug. to 4th Sept. 2016 under the Department of Mechanical Engineering ISB&M School of Technology, Pune organized a **Five Days CATIA Training Workshop** for the Final year students of ISB&M School of Technology, Nande, Pune.

At 9.00 A.M. Event was inaugurated by Dr.P.K.Srivastava, Principal ISB&M,SOT,Nande Pune.

Event coordinator for the workshop, Prof. Chandrakant Khemkar addressed that “The aim of workshop is to expose the students to the CATIA Software and its application. This workshop will also provide hands on experience to CATIA part modeling,Assembly Design,Drafting,Sheet metal design.

Mr.Rajiv Harpude From NRS Tech delivered theory session on CATIA user guide interface and also provide hands on practice along with Prof.Chandrakant Khemkar From Department of Mechanical Engineering,ISB&M,SOT.

Corresponding, lab session going on with his lecture in CAD Lab1 & CAD Lab2.

Event Coordinator

HOD



Peoples Empowerment Group
ISB&M SCHOOL OF TECHNOLOGY, NANDE, PUNE
DEPARTMENT OF MECHANICAL ENGINEERING
Academic Year 2016-17



Student working on CATIA Software



NRS TECH

Flat No. 10, Ruby Residency, Above Honda Showroom,
Dhaysi Pata, Nalhe-41
Email Id: nrs@nrs16@gmail.com
Mob. No. : 8087201170, 8275557087, 9767273428

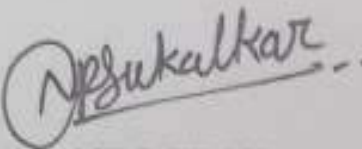
CERTIFICATE

This is to certify that Saurabh Salvi successfully completed his training in Catia V5R21, also completed a project work on Material Handling Equipment Design in our design department during the period 20/08/2016 to 04/09/2016 under the guidance of Mr. Swapnil Maskar.

During the period of his intern/project work with us, he found punctual hardworking & inquisitive.

We wish him every success in life.

NRS TECH not provides any source code.



For NRS TECH



Signature & Stamp



Peoples Empowerment Group
ISB&M SCHOOL OF TECHNOLOGY, NANDE, PUNE
DEPARTMENT OF MECHANICAL ENGINEERING
Academic Year 2016-17

WORKSHOP SUMMARY REPORT ON

**“Five Days CMM -CALYPSO Software Workshop for Third Year
Students”**

Date: 6th to 10th April 2017

On 6th to 10th April 2017 under the Department of Mechanical Engineering ISB&M School of Technology, Pune organized a **Five Days Calypso Software Training Workshop** for the third year students of ISB&M School of Technology, Nande, Pune.

At 9.00 A.M. Event was inaugurated by Dr.P.K.Srivastava, Principal ISB&M,SOT,Nande Pune.

Event coordinator for the workshop, Prof. Sagar Durgawade addressed that “The aim of workshop is to expose the students to the use of Calypso Software and its applications. This workshop will also provide hands on experience with Calypso software.

Prof. Sagar Durgawade along with Prof.C.S.Khemkar Department of Mechanical Engineering, gave a lecture on Co-ordinate Measuring Machine, Basic Information about Calypso Software and also hands on practice on Calypso Software.

Corresponding, lab session going on with his lecture in the Cad lab.

Event Coordinator

HOD



Peoples Empowerment Group
ISB&M SCHOOL OF TECHNOLOGY, NANDE, PUNE
DEPARTMENT OF MECHANICAL ENGINEERING
Academic Year 2016 - 17



Student Working on CMM CALYPSO Software



MOU signed with CARL ZEISS



People's Empowerment Group

ISB & M SCHOOL OF TECHNOLOGY, PUNE



Association with

CARL ZEISS IND. PVT. LTD

This is to certify that Mr. / Miss Amit Khindkar.....
have successfully completed the course of CMM Software "CALYPSO" organized at
ISB&M SOT, Pune, dated 10th Apr. 2017..... and completed all assignments
successfully.

Event Co-ordinator

HOD
Mechanical

PRINCIPAL
ISB&M SOT



Date: 15/01/2016

REPORT

1. Introduction

New technology MongoDB is a free and open-source cross-platform document-oriented database program. Classified as a NoSQL database program, MongoDB uses JSON-like documents with schemata. MongoDB is developed by MongoDB Inc., and is published under a combination of the GNU Affero General Public License and the Apache License and second technology is Apache Hadoop which is a collection of open-source software utilities that facilitate using a network of many computers to solve problems involving massive amounts of data and computation. It provides a software framework for distributed storage and processing of big data using the MapReduce programming model.

2. Objectives

- To make participants capable to work on Hadoop and MongoDB.
- To create a channel of communication for students willing to take admission in engineering.

3. Event schedule

Workshop is conducted on 10th to 15th of Jan, 2016 at ISBM School of Technology, Nande.

Time: 9:00AM to 5PM

Venue: Seminar hall Computer department

Installation process is carried out by student coordinators. They helped all the students with proper setup and prerequisite files required for android studio installation. Each and every student were satisfied with the team work of coordinators.





Workshop was a great success thanks to beloved Principal Sir for supporting and helping us in every manner.





Speed TechServe Pvt. Ltd. (OPC)

Leads you to satisfaction!

Certificate

*This is to certify that Mr. Mfss. Bipin Yadav
has successfully completed training course in Mongod6 And Hadoop*

From 10th Jan, 2016 to 15th Jan, 2016

Date : 15/01/2016

Authority Signatory



People's Empowerment Group
ISB&M SCHOOL OF TECHNOLOGY, NANDE, PUNE
Academic Year 2015-16

REPORT ON

"Four Days Program on Professional Skill Development"

Date: 11th July to 19th July 2015

ISB&M School of Technology, Pune organized a **Four Days Program on Professional Skill Development** for final year students of ISB&M School of Technology, Nande, Pune.

The purpose of the program was to bring together students of college to learn about behavioral ethics, leadership, time management and how to face aptitude test and interview.

We took Students' feedback which will be helpful for us in future and we also have their attendance sheet. All this data is enclose with this report.

The program concluded on 19th July 2015 at 05.00PM.

TPO

Principal
PRINCIPAL
IS B & M School of Technology
Nande, Pune-42.



Peoples Empowerment Group
ISB&M SCHOOL OF TECHNOLOGY, NANDE, PUNE
DEPARTMENT OF MECHANICAL ENGINEERING
Academic Year 2015-16

WORKSHOP SUMMARY REPORT ON

“Five Days ANSYS Workbench Workshop”

Date: 20/09/ 2015

On 11th to 20th September' 2015 under the Department of Mechanical Engineering, ISB&M School of Technology, Pune organized a **Five Days ANSYS Workbench Workshop** for students of Mechanical Engineering, **ISB&M School of Technology, Nande, Pune.**

The purpose of the workshop was to bring together students of college to learn about and identify opportunities for supporting and expanding active in the ANSYS background. Many students and Faculties were participants (Appendix 1) over institute. The agenda (Appendix 2) began with an overview by Mr.Nitin Jadhav


We Certified Students for this Workshop. We take Student feedbacks which will helpful for us in future and we also have their attendance sheet. All this data is enclose with this report.

The program concluded on 20th September' 2015 at 05.00pm.

LIST OF APPENDICES

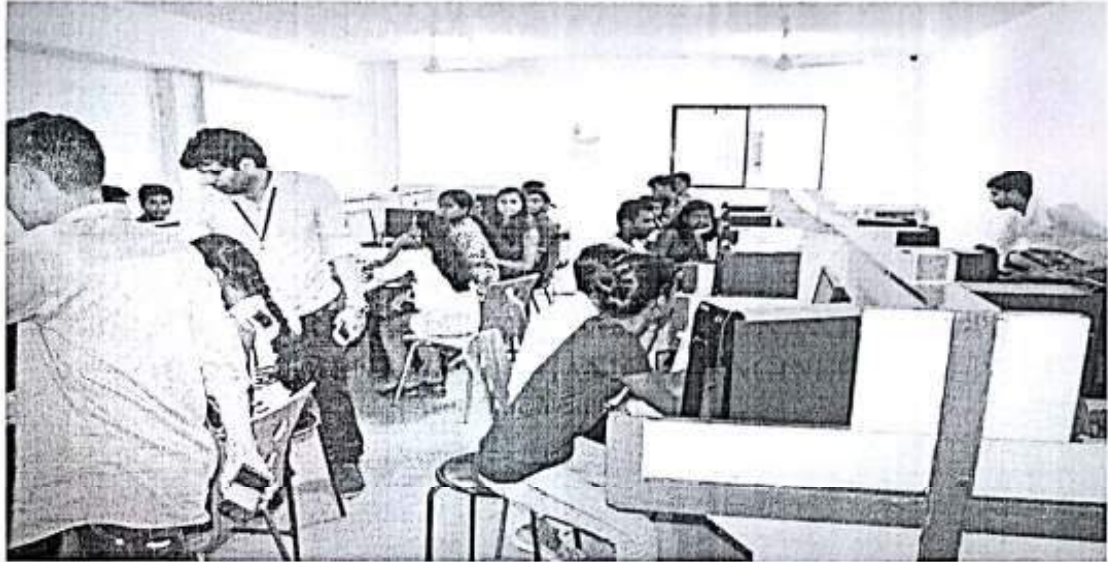
- Appendix 1. Workshop Agenda
- Appendix 2. Workshop Attendance Sheet


Event Coordinator

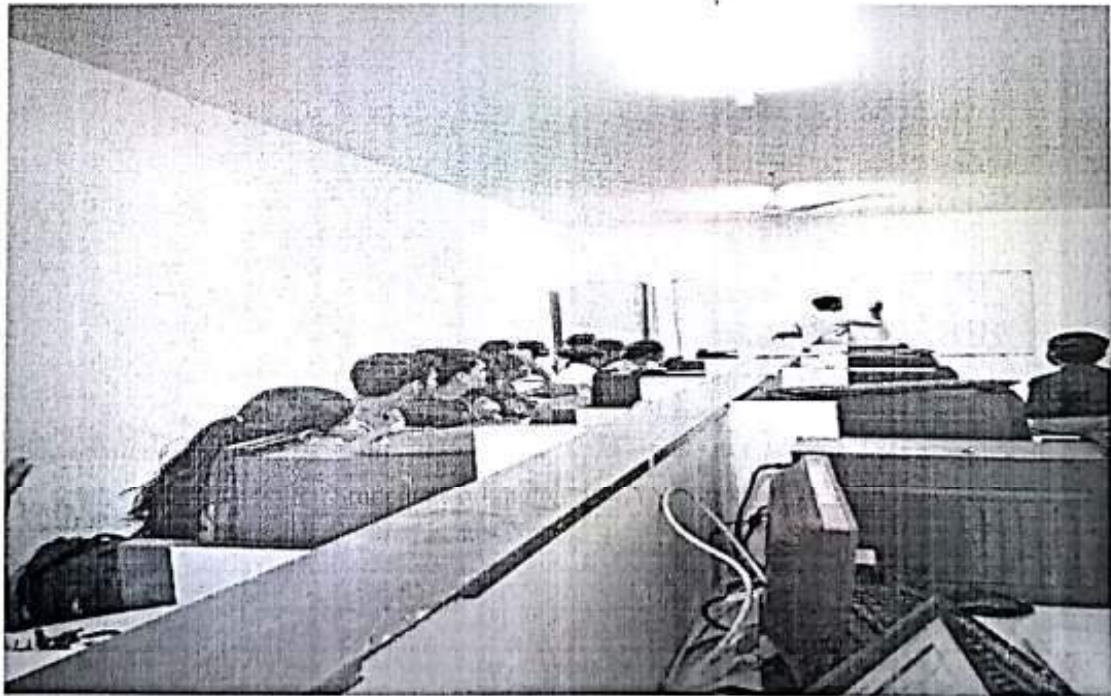

HOD



Peoples Empowerment Group
ISB&M SCHOOL OF TECHNOLOGY, NANDE, PUNE
DEPARTMENT OF MECHANICAL ENGINEERING
Academic Year 2015-16



Students working on ANSYS Software



Students working on ANSYS Software



ISB&M SCHOOL OF TECHNOLOGY, PUNE

Department of Mechanical Engineering

Workshop on ANSYS Workbench

This is to certify that, Mr. / Miss Swagat Salunke.....

*have participated in "Five Days Workshop on ANSYS Workbench" Organized by
Department of Mechanical Engineering, ISB&M School of Technology, Pune, on*

.....20th Sept. 2015.....

He /she completed the assignments sincerely in this event.

EVENT CO-ORDINATOR

HOD

PRINCIPAL



Peoples Empowerment Group
ISB&M SCHOOL OF TECHNOLOGY, NANDE, PUNE
DEPARTMENT OF MECHANICAL ENGINEERING
Academic Year 2015-16

"Five Days CATIA Workshop"

Date: 08/8 to 23/8/ 2015

On 8th Aug. to 23rd August 2015 under the Department of Mechanical Engineering ISB&M School of Technology, Pune organized a **Five Days CATIA Training Workshop** for the Final year students of **ISB&M School of Technology, Nande, Pune.**

At 9.00 A.M. Event was inaugurated by Dr.P.K.Srivastava, Principal ISB&M,SOT,Nande Pune.

Event coordinator for the workshop, Prof. Chandrakant Khemkar addressed that "The aim of workshop is to expose the students to the CATIA Software and its application. This workshop will also provide hands on experience to CATIA part modeling,Assembly Design,Drafting,Sheet metal design.

Mr.Rajiv Harpude From NRS Tech delivered theory session on CATIA user guide interface and also provide hands on practice along with Prof.Chandrakant Khemkar From Department of Mechanical Engineering,ISB&M,SOT.

Corresponding, lab session going on with his lecture in CAD Lab1 & CAD Lab2.

Event Coordinator

HOD



Peoples Empowerment Group
ISB&M SCHOOL OF TECHNOLOGY, NANDE, PUNE
DEPARTMENT OF MECHANICAL ENGINEERING
Academic Year 2015-16



Student working on CATIA Software



Student working on CATIA Software



NRS TECH

Flat No. 11, Ruby Residency, Above Honda Showroom,
Dhule Fort, Nashik-41
Email Id: nrs@nrs16@gmail.com
Mob No.: 8087201170, 8275557087, 9767273428

CERTIFICATE

This is to certify that Aniket Yadav successfully completed his training in Catta V5R21, also completed a project work on Material Handling Equipment Design in our design department during the period 08/08/2015 to 23/08/2015 under the guidance of Mr. Swapnil Maskar.

During the period of his intern/project work with us, he found punctual hardworking & inquisitive.

We wish him every success in life.

NRS TECH not provides any source code.

N. S. Kulkarni

For NRS TECH



Signature & Stamp

UNIVERSITY OF PUNE
TE (COMPUTER ENGINEERING)-2008 COURSE

Term-I

Sub Code	Subject	Teaching Scheme		Examination Scheme				Total Marks
		Lect	Pract	Th	TW	Pr	Or	
310241	Database Management Systems	03	—	100	—	—	—	100
310242	Data Communications	03	—	100	—	—	—	100
310243	Microprocessors and Micro-controllers	03	—	100	—	—	—	100
310244	Digital Signal Processing	04	—	100	—	—	—	100
310245	Theory of Computation	03	—	100	—	—	—	100
310246	RDBMS and Visual Programming Laboratory	02	04	—	50	50	—	100
310247	Signal Processing Laboratory	—	04	—	25	—	50	075
310248	Hardware Laboratory	—	04	—	25	50	—	075
Total		18	12	500	100	100	50	750
Total of Part I (A)		30 Hrs		750				

Term-II

Sub Code	Subject	Teaching Scheme		Examination Scheme				Total Marks
		Lect	Pract	Th	TW	Pr	Or	
310249	Principles of Programming Languages	03	—	100	—	—	—	100
310250	Computer Networks	03	—	100	—	—	—	100
310251	Finance and Management Information Systems	04	—	100	—	—	—	100
310252	Systems Programming & Operating Systems	04	—	100	—	—	—	100
310253	Software Engineering	03	—	100	—	—	—	100
310254	Software Laboratory	—	04	—	25	50	—	075
310255	Computer Networks	01	04	—	25	—	50	075
310256	Software Development Tools Laboratory	—	02	—	50	—	—	050
310257	Seminar and Technical Communication	—	02	—	50	—	—	050
Total		18	12	500	150	50	50	750
Total of Part II (B)		30 Hrs		750				
Grand Total				1500				

Th: Theory Tw: Term Work Pr: Practical Or: Oral

310251: FINANCE & MANAGEMENT INFORMATION SYSTEMS

Teaching Scheme:
Lectures: 3 Hrs/Week

Examination Scheme:
Theory: 100 Marks

Unit I: Basic of management theory & practice

Evolution of management thoughts, system approach to management process, functions of manager, social responsibilities of manager. International management and Multinational Corporation, cultural differences in international management. Quality perspective, HR management and selection, performance appraisal and carrier strategies (6 hrs)

Unit II: Finance

Overview of financial management: goal of financial management, fundamental principle of finance, risk return trade off, forms of business organization. **Financial statements taxes and cash flow:** balance sheet, profit and loss account, finance topics, taxes, free cash flow. Time value of money: time lines and notations, present and future value of single amount. **Mergers & acquisition:** Mergers, acquisition, takeover, privatization, Divestitures. Corporate Security: Share, debentures & International Security (8 hrs)

Unit III: Basics of MIS -Decision making:

Concepts, process and organizational decision making, role of MIS in decision making. Development process of MIS: MIS plan, development & implementation of MIS. Strategies design of MIS, business process reengineering, relevance of IT, DSS concepts, philosophy and application, knowledge management and system. (8 hrs)

Unit IV: E-business

E-business enterprise: Organization of business in digital form, e-business, e-commerce, e-communication, e-collaboration and real time enterprise. Modern business technology: security and businesses, web enabled business management, CMS, ECM, enterprise portal. (6 hrs)

Unit V : Enterprise and global management

Enterprise management system: EMS, ERP, SCM, CRM. Information security challenges, Global management: outsourcing and off-shoring, cultural, political and economical challenges, global business IT strategies and applications, global IT platform, global data access issues. (6 hrs)

Unit VI: Laws and case studies

Law: cyber law, IT act, right to information act, IPR law, IT impact on society.
Case studies: Refer case studies given in the text book (6 hrs)

Text books:

1. W.S. Jawadekar, "Management information system, text and cases: A digital firm perspective" 4th edition, Tata Mcgraw hill, 2009
2. J.A.O'Brien, "Management information system", 9th edition, Tata Mcgraw hill, 2009
3. H. Koontz, "Essentials of management: An international perspective", 8th edition, Tata Mcgraw hill, 2010
4. P. Chandra, "Financial management theory and practice", 6th edition, Tata Mcgraw hill, 2007

References Books:

1. P.K.Goel, "Business law for managers", priztantra, 2009
2. V. Sharan, "Fundamentals of financial management", Pearson, 2nd edition
3. E.Turban, "Information technology for management", 6th edition, Wiley edition, 2008
4. R. Mclead, "Management information system", 10th edition, Pearson