Criteria 1: Curricular Aspects

Metric 1.1.3: Average percentage of courses having focus on employability/ entrepreneurship/ skill development during the last five years

Marks: 10
Obtained Grade from NAAC: 0
Expected Grade from NAAC: 4

HEI Input:

2017-18	2016-17	2015-16	2014-15	2013-14
225	191	145	103	95

DVV suggested Input:

2017-18	2016-17	2015-16	2014-15	2013-14
00	00	00	00	00

The HEI has included professional courses. All courses of professional programs have element of employability/ entrepreneurship/ skill development. Only courses which are directly leading to employability /entrepreneurship / skill development can be considered. HEI to reconcile. The HEI must furnish a certificate that the courses listed have direct bearing to employability /entrepreneurship / skill development. The HEI must attach data in NAAC prescribed format for the Metric as an Excel file.

HEI Clarification Input:

2017-18	2016-17	2015-16	2014-15	2013-14
148	123	89	63	61

The data has been reconciled and attached in the NAAC prescribed format as an Excel file. The courses directly leading to employability /entrepreneurship / skill development are considered. The certificate showing that the courses listed have direct bearing to employbility/entrepreneurship / skill development is available at URL: https://sggs.ac.in/wp-content/uploads/2019/08/NAAC-DVV-QIF-1.1.3-courses-employbility.pdf The URL for complete copies of syllabus is at: https://sggs.ac.in/curriculum-and-syllabus/
Supporting Document:
https://assessmentonline.naac.gov.in/storage/app/hei/clarificationfiles/101692_10691id_DVV%201.1.3%20final.xlsx

DVV Recommended Input:

2017-18	2016-17	2015-16	2014-15	2013-14
21	43	52	38	34

Remark:
The HEI had included professional courses in its data. The HEI advised that while all the courses of professional programs have an element of employability/ entrepreneurship/ skill development, it is only such courses that have focus on employability/ entrepreneurship/ skill development (year-wise) that can be considered. It was requested that Only courses which are directly leading to employability /entrepreneurship / skill development to be considered. HEI was advised to reconcile. The HEI was required to furnish a certificate that the courses listed have direct bearing to employability

/entrepreneurship / skill development. The HEI has attached data of the regular curriculum courses and not provided any certificate as requested.

Appeal:

1. DVV remark that "HEI not provided any certificate as requested" is incorrect, as the certificate was uploaded on the HEI website, and the link was provided in HEI clarification input. So assessment from DVV partner seems to be based on incomplete input.

2. The number of courses in the reconciled data was reduced as insisted by DVV partner, but we were not convinced how the courses claimed were not directly leading to employability /entrepreneurship / skill development. Because of which our claim got reduced from 32.6% to 20.92%, which was subsequently reduced by DVV partner to 8.39% and hence was graded as 0 in assessment. This is injustice to our earlier claim. We wish to stick to our original claim uploaded before DVV clarification i.e. 32.6%.

3. It is brought to your notice that in the metric '5.2.1 Average percentage of placement of outgoing students during the last five years', HEI has been graded as 4 by NAAC which is accepted evidence of inculcation of employability/ skill development through courses in the curricula.

4. HEI has compared assessment with respect to similar institutions and found that the claims to the extent of 80% to 100% courses were surprisingly accepted for autonomous engineering institutions by corresponding DVV which is in direct contradiction to DVV clarifications in the present HEI case which states "The HEI has included professional courses. All courses of professional programs have element of employability/ entrepreneurship/ skill development. Only courses which are directly leading to employability /entrepreneurship / skill development can be considered. HEI to reconcile." Hence HEI was asked by DVV to reduce the claim from 32.6% to 20.92%. The HEI is practicing autonomy since 2004, and has been on the forefront of modifying curricula frequently to include courses directly leading to employability /entrepreneurship / skill development. We strongly believe that in our case also, our original claim of 32.6% should be accepted and graded accordingly for this metric in comparison to already evaluated institutions with AISHE ID (Track ID): C-1262 (KACOGN80356) with 83% courses and C-41351 (MHCOGN80492) with 100% courses directly having bearing on employability /entrepreneurship / skill development.

5. The original list of courses directly having bearing on employability /entrepreneurship / skill development is attached along with certificate signed by director.

Dean Academic

Dean (Academic)
S.G.G.S. Institute of Engineering & Techology
Vishnupuri, Nanded - 431606 (M.S.) India

Director
S.G.G.S.I.E.&T.Vishnupuri
NANDED

Shri Guru Gobind Singhji (SGGS) Institute of Engineering and Technology, Nanded, Maharashtra - 431606

1.1.3 Number of courses having focus on employability/ entrepreneurship/ skill development year-wise during the last five years

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This is to certify that, the following statement shows the number of courses having focus on employability/ entrepreneurship/ skill development year-wise during the last five years (2013 to 2018).

Sr. No.	Year	Number of courses having focus on employability/ entrepreneurship/ skill development
1	2013-14	95
2	2014-15	103
3	2015-16	145
4	2016-17	191
5	2017-18	225

(Dean, Academic)

Dean (Academic)
S.G.G.S.Institute of Engineering & Techology
Vishnupuri Nanded - 431606 (M.S.) India

(Director)
Director
S.G.G.S.I.E.&T.Vishnupuri
NANDED

Place: Nanded
Date: 05-03-2020

1.1.3 Average percentage of courses having focus on employability/ entrepreneurship/ skill development (10)

Name of the Course	Course Code	Name of the Program	Activities with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of introductio
			2013-14	
Process Modeling & Simulation	CH421	Chemcial Engineering	Employability & Skill development	2009-10
Transport Phenomena	CH422	Chemcial Engineering	Employability	2009-10
Industrial Organization & Management	CH423	Chemcial Engineering	Entrepreneurship	2009-10
Optimization Techniques	CH424	Chemcial Engineering	Employability	2009-10
EL-III /open EL	CH425	Chemcial Engineering	Entrepreneurship	2009-10
Seminar	CH426	Chemcial Engineering	Skill development	2009-10
Minor Project	CH427	Chemcial Engineering	Employability, Entrepreneurship & Skill development	2009-10
EL-IV/open EL	CH428	Chemcial Engineering	Employability	2009-10
EL-V/open EL	CH429	Chemcial Engineering	Employability	2009-10
Elective-VI/ Open Elective	CH430	Chemcial Engineering	Employability & Entrepreneurship	2009-10
Heat Transfer	CH302	Chemcial Engineering	Employability	2009-10
Mass Transfer-I	CH303	Chemcial Engineering	Employability	2009-10
Process Equipment Design & Drawing	CH304	Chemcial Engineering	Employability	2009-10
Chemical Reaction Engg.-I	CH307	Chemcial Engineering	Employability	2009-10
Mass Transfer-II	CH306	Chemcial Engineering	Employability	2009-10
Process Control & Instrumentation	CH308	Chemcial Engineering	Employability	2009-10
Engineering Math-III	MA203	Chemcial Engineering	Employability	2009-10
Applied Physical Chemistry	CH203	Chemcial Engineering	Employability	2009-10
Chemical Process Calculation	CH210	Chemcial Engineering	Employability	2009-10
Inorganic Chemical Technology	CH202	Chemcial Engineering	Employability	2009-10
Organic Chemical Technology	CH208	Chemcial Engineering	Employability	2009-10
Machine Design & Drawing	CH209	Chemcial Engineering	Employability	2009-10
Data Structure	UCS204	UG Computer Science & Engineering	Skill devlopment	2010-11
Object Oriented Programming with Java	UCS209	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Miniproject	EC362	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2013-14
Computer Lab I	UCS211	UG Computer Science & Engineering	Employability/ Entrepreneurship	2013-14
Computer Lab II	UCS212	UG Computer Science & Engineering	Employability	2010-11
Design and Analysis of Algorithms	CS323	UG Computer Science & Engineering	Skill devlopment	2013-14
Computer Lab-III	CS333	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Software Engineering	CS328	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Computer Lab-IV	CS336	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2013-14
Advanced Java Programming	CS332A	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Advanced C Programming	EV525	UG Computer Science & Engineering	Skill devlopment	2010-11
Interactive Python Programming	CS335A	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2013-14
CS335E Cyber Security	CS335E	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Advanced Database Management System	CS422	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
TCP/IP Networking	CS423	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Cryptography and Networking Security	CS424	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2013-14
Distributed Computing	CS431	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Artificial Neural Network	CS440A	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Artificial Intelligence	CS440B	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2013-14
Computer Graphics	CS440C	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Data Mining	CS440E	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Cloud Computing	CS440F	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Information Security	CS440G	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Multimedia System	CS441B	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2013-14
Mobile Computing	CS441C	UG Computer Science & Engineering	Skill devlopment	2010-11
Big Data Analytics	CS441D	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Computer Vesion	CS441E	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Real-time System	CS441F	UG Computer Science & Engineering	Skill devlopment	2010-11
Computer Architecture and Parallel Processing	CSN501	PG Computer Science & Engineering	Skill	2011-12
Advanced Computer Networks	CSN502	PG Computer Science & Engineering	Skill	2011-12

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Course Name	Code	Program	Category/Description	Year
Number Theory and Cryptography	CSN503	PG Computer Science & Engineering	Skill	2011-12
Advanced Operating Systems	CSN504A	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Wireless Sensor Network	CSN504B	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Web Engineering	CSN504C	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Data Warehousing and Data mining	CSN504D	PG Computer Science & Engineering	Entrepreneurship	2011-12
Artificial Neural Network	CSN504E	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Advanced Compilers	CSN504F	PG Computer Science & Engineering	Skill	2011-12
Advanced Computer Algorithms	CSN506	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Information Security	CSN507	PG Computer Science & Engineering	Entrepreneurship	2011-12
Stochastic Processes	CSN508	PG Computer Science & Engineering	Skill	2011-12
Mobile and Wireless Networks	CSN509A	PG Computer Science & Engineering	Entrepreneurship	2011-12
Security Threats and Vulnerabilities	CSN509B	PG Computer Science & Engineering	Entrepreneurship	2011-12
Information Retrieval	CSN509C	PG Computer Science & Engineering	Entrepreneurship	2011-12
Knowledge Based Systems	CSN509D	PG Computer Science & Engineering	Skill	2011-12
Software Project Management	CSN509E	PG Computer Science & Engineering	Skill	2011-12
Distributed Systems	CSN509F	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Sensors and Transducers	IN202	Instrumentation Engineering	Course covers detailed study of sensors used for quantative measurement of different process parameter like pressure, temperature etc. The course content are designed to provide students very essential knowledge required by the process industry. Thereby, contributing directly in employment.	1981
Electrical and Electronics Measurements	IN208	Instrumentation Engineering	Course covers detailed study of various electrical and electronivs measurements used for measuring AC and DC quantities like current, voltage, resistance, inductance, capacitance etc. The course content are designed to provide students very essential knowledge required by the process industry. Thereby, contributing directly in employment.	1981
Power Plant Instrumentation	IN311	Instrumentation Engineering	Content of course covers basics of power plant engineering. Third year student under take three weeks training program in thermal power plant. Industrial Visits are organized as a part of curriculum	1981
Digital Signal Processing	IN303	Instrumentation Engineering	Course covers detailed study of discrete-time and digital signal in time and frequency domain and implementation of FIR, IIR filters with different structures. The course content are designed to provide students very essential knowledge required by the industry. Thereby, contributing directly in employment.	1981
Feedback Control System	IN301	Instrumentation Engineering	Course covers the concept of time response and frequency response of the system, fundamental concepts of control systems and mathematical modeling of the system and iterative nature of most designs in order to achieve working systems in a process industries.	1981
Process Control	IN307	Instrumentation Engineering	the course contents are design to provide students fundamental aspects of process control, essential knowledge of process dynamics, developing dynamic models of processes, control strategies for linear time-invariant systems and instrumentation aspects and controller tuning in order to assure required performance of the systems knowledgeable in the design of control systems and controller tuning for chemical processes.	1981
Control System Components	IN308	Instrumentation Engineering	to understand the fundamentals of various types of components being used in control systems, identify, select and design a suitable devices and components for use in process industries, knowledge of these components is required to work on various processes and there by contributing directly in employbility/ entrepreneurship.	1981
Humanity Science	HU301	Instrumentation Engineering	Under this course students know the Importance of building positive attitude, self esteem, to know the Cultural heritage of India, cultural tenets, values, peculiarities, family unit, old scriptures, some Life management techniques as preached by Saints, western philosophers etc. Motivation: How does it work, stages from motivation to demotivation, motivational stories, Goal setting of life: Why goals are important?, Why don't more people set goals, how goals can be balanced etc., all these life skills are necessary for being employee of any organisation, entrepreneur etc.	2012-13
Building Automation System	IN407C	Instrumentation Engineering	Course included in syllabus on suggestion given by the Johnson Control, PVT, LTD, Pune. Every year mentioned company allow mimnum two students for six months internship program. 8 students got placed so far in above mentioned company from the year of inclusion of the	2012-13

Instrumentation Project Management	IN402	Instrumentation Engineering	This Course covers basic concepts to address specific management needs at the individual, team, division and/or organizational level, understand the ethical responsibilities of practicing engineering managers and the impact of their decisions within a global and societal context, apply systems engineering to solve complex technical and operational problems to meet both business and customer needs while working on a project and to handle project processes effectively and efficiently the knowledge of instrumentation project management is necessary. THereby contributing directly in employment/entrepreneurship and skill develovement of a individual	1981
Strength of Material	ME201	Mechanical Engineering	Model real-world problems, Will show the basic knowledge required for design of machine/structural component	2013-14
Applied Thermodynamics	ME202	Mechanical Engineering	Applications of Laws of thermodynamics, demonstrate power cycles, design of steam power plant	2013-14
Mechanical Measurements & Metrology	ME203	Mechanical Engineering	Hands on in applying the concepts of Measurement & Metrology, different types of measurement needed in industry	2013-14
Manufacturing process –I & II	ME205 & ME208	Mechanical Engineering	Select the manufacturing process for the particular engineering components	2013-14
Mathematics-III	MA203	Mechanical Engineering	Analyzing physical phenomena in engineering and technology	2013-14
Theory of Machines	ME206	Mechanical Engineering	Calculate loss of power due to friction in various machine elements, Demonstrate the working of different mechanisms	2013-14
Fluid Mechanics & Hydraulic Machines	ME207	Mechanical Engineering	design various components of pumps and turbines and study their characteristics, develop basic knowledge on Fluid Statistics, Fluid Dynamics, closed conduit flows, hydro-electric power stations	2013-14
Machine Design –I & II	ME301 & ME306	Mechanical Engineering	Understanding the need, steps of machine design, and consideration for manufacturing, evaluate life of machine components against static loads and fluctuating loads	2013-14
Dynamics of Machines	ME302	Mechanical Engineering	design and applications of balancing machine parts, exhibits solutions to issues related to vibration, their effect and its control measures	2013-14
Heat Transfer	ME303	Mechanical Engineering	application of mathematical approach to analyze and solve the numerical on complex heat transfer phenomena's, design, performance analysis and practical applications of heat exchangers.	2013-14
Computer Aided Design	ME309	Mechanical Engineering	use the CAD concepts in design engineering, CAD softwares such as UGNX, CREO, for design	2013-14
PLM Fundamentals	MEP501	Mechanical Engineering	PLM Strategy, PLM Solutions	2009-10
New Product Design	MEP502	Mechanical Engineering	understanding of product design, product development process & methodologies, integrate product development process by identifying customer needs by gathering, interpreting, organizing and establishing relative importance of the customer needs	2009-10
Data Management	MEP503	Mechanical Engineering	practicing of various models like E-R model and Relational models, use of tools like spreadsheets and database management software e.g. Oracle, MS Access, MS SQL, etc	2009-10
Customization of PLM Software	MEP512	Mechanical Engineering	Use of SDLC and Prototyping, Server Side Customization, Client Side Customization	2009-10
Dissertation Part-I & Part –II	MEP601& MEP602	Mechanical Engineering	finding solutions to realistic industrial problems and optimize those, develop/ invent newer technology and software	2009-10
Fluid Mechanics & Hydraulic Machines	ME207	Mechanical Engineering	design various components of pumps and turbines and study their characteristics, develop basic knowledge on Fluid Statistics, Fluid Dynamics, closed conduit flows, hydro-electric power stations	2013-14

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			2014-15	
Process Modeling & Simulation	CH421	Chemcial Engineering	Employability & Skill development	2009-10
Transport Phenomena	CH422	Chemcial Engineering	Employability	2009-10
Industrial Organization & Management	CH423	Chemcial Engineering	Entrepreneurship	2009-10
Optimization Techniques	CH424	Chemcial Engineering	Employability	2009-10
EL-III /open EL	CH425	Chemcial Engineering	Entrepreneurship	2009-10
Seminar	CH426	Chemcial Engineering	Skill development	2009-10
Minor Project	CH427	Chemcial Engineering	Employability, Entrepreneurship & Skill development	2009-10
EL-IV/open EL	CH428	Chemcial Engineering	Employability	2009-10
EL-V/open EL	CH429	Chemcial Engineering	Employability	2009-10
Elective-VI/ Open Elective	CH430	Chemcial Engineering	Employability & Entrepreneurship	2009-10
Heat Transfer	CH302	Chemcial Engineering	Employability	2009-10
Mass Transfer-I	CH303	Chemcial Engineering	Employability	2009-10
Process Equipment Design & Drawing	CH304	Chemcial Engineering	Employability	2009-10
Chemical Reaction Engg.-I	CH307	Chemcial Engineering	Employability	2009-10
Mass Transfer-II	CH306	Chemcial Engineering	Employability	2009-10
Process Control & Instrumentation	CH308	Chemcial Engineering	Employability	2009-10
Engineering Math-III	MA203	Chemcial Engineering	Employability	2009-10
Applied Physical Chemistry	CH203	Chemcial Engineering	Employability	2009-10
Chemical Process Calculation	CH210	Chemcial Engineering	Employability	2009-10
Inorganic Chemical Technology	CH202	Chemcial Engineering	Employability	2009-10
Organic Chemical Technology	CH208	Chemcial Engineering	Employability	2009-10
Machine Design & Drawing	CH209	Chemcial Engineering	Employability	2009-10
Data Structure	UCS204	UG Computer Science & Engineering	Skill devlopment	2010-11
Object Oriented Programming with Java	UCS209	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Miniproject	EC362	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2013-14
Computer Lab I	UCS211	UG Computer Science & Engineering	Employability/ Entrepreneurship	2013-14
Computer Lab II	UCS212	UG Computer Science & Engineering	Employability	2010-11
Design and Analysis of Algorithms	CS323	UG Computer Science & Engineering	Skill devlopment	2013-14
Computer Lab-III	CS333	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Software Engineering	CS328	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Computer Lab-IV	CS336	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2013-14
Advanced Java Programming	CS332A	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Advanced C Programming	EV525	UG Computer Science & Engineering	Skill devlopment	2010-11
Interactive Python Programming	CS335A	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2013-14
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Cloud Computing	CS440F	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
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Real-time System	CS441F	UG Computer Science & Engineering	Skill devlopment	2010-11
Computer Architecture and Parallel Processing	CSN501	PG Computer Science & Engineering	Skill	2011-12
Advanced Computer Networks	CSN502	PG Computer Science & Engineering	Skill	2011-12
Number Theory and Cryptography	CSN503	PG Computer Science & Engineering	Skill	2011-12
Advanced Operating Systems	CSN504A	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Wireless Sensor Network	CSN504B	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12

Course	Code	Department	Description	Year
Web Engineering	CSN504C	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Data Warehousing and Data mining	CSN504D	PG Computer Science & Engineering	Entrepreneurship	2011-12
Artificial Neural Network	CSN504E	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Advanced Compilers	CSN504F	PG Computer Science & Engineering	Skill	2011-12
Advanced Computer Algorithms	CSN506	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Information Security	CSN507	PG Computer Science & Engineering	Entrepreneurship	2011-12
Stochastic Processes	CSN508	PG Computer Science & Engineering	Skill	2011-12
Mobile and Wireless Networks	CSN509A	PG Computer Science & Engineering	Entrepreneurship	2011-12
Security Threats and Vulnerabilities	CSN509B	PG Computer Science & Engineering	Entrepreneurship	2011-12
Information Retrieval	CSN509C	PG Computer Science & Engineering	Entrepreneurship	2011-12
Knowledge Based Systems	CSN509D	PG Computer Science & Engineering	Skill	2011-12
Software Project Management	CSN509E	PG Computer Science & Engineering	Skill	2011-12
Distributed Systems	CSN509F	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Communication Skill	HU202	Electrical Engineering	Listening, reading, writing and speaking skills	2014-15
Sensors and Transducers	IN202	Instrumentation Engineering	Course covers detailed study of sensors used for quantative measurement of different process parameter like pressure, temperature etc. The course content are designed to provide students very essential knowledge required by the process industry. Thereby, contributing directly in employment.	1981
Electrical and Electronics Measurements	IN208	Instrumentation Engineering	Course covers detailed study of various electrical and electronivs measurements used for measuring AC and DC quantities like current, voltage, resistance, inductance, capacitance etc. The course content are designed to provide students very essential knowledge required by the process industry. Thereby, contributing directly in employment.	1981
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Digital Signal Processing	IN303	Instrumentation Engineering	Course covers detailed study of discrete-time and digital signal in time and frequency domain and implementation of FIR, IIR filters with different structures. The course content are designed to provide students very essential knowledge required by the industry. Thereby, contributing directly in employment.	1981
Feedback Control System	IN301	Instrumentation Engineering	Course covers the concept of time response and frequency response of the system, fundamental concepts of control systems and mathematical modeling of the system and iterative nature of most designs in order to achieve working systems in a process industries.	1981
Process Control	IN307	Instrumentation Engineering	the course contents are design to provide students fundamental aspects of process control, essential knowledge of process dynamics, developing dynamic models of processes, control strategies for linear time-invariant systems and instrumentation aspects and controller tuning in order to assure required performance of the systems knowledgeable in the design of control systems and controller tuning for chemical processes.	1981
Control System Components	IN308	Instrumentation Engineering	to understand the fundamentals of various types of components being used in control systems, identify, select and design a suitable devices and components for use in process industries, knowledge of these components is required to work on various processes and there by contributing directly in employbility/ entrepreneurship.	1981
Humanity Science	HU301	Instrumentation Engineering	Under this course students know the Importance of building positive attitude, self esteem, to know the Cultural heritage of India, cultural tenets, values, peculiarities, family unit, old scriptures, some Life management techniques as preached by Saints, western philosophers etc. Motivation: How does it work, stages from motivation to demotivation, motivational stories, Goal setting of life: Why goals are important?, Why don't more people set goals, how goals can be balanced etc., all these life skills are necessary for being employee of any organisation, entrepreneur etc.	2012-13
Building Automation System	IN407C	Instrumentation Engineering	Course included in syllabus on suggestion given by the Johnson Control, PVT, LTD, Pune. Every year mentioned company allow mimnum two students for six months internship program. 8 students got placed so far in above mentioned company from the year of inclusion of the	2012-13

Course Name	Course Code	Department	Course Outcome	Year
Instrumentation Project Management	IN402	Instrumentation Engineering	This Course covers basic concepts to address specific management needs at the individual, team, division and/or organizational level, understand the ethical responsibilities of practicing engineering managers and the impact of their decisions within a global and societal context, apply systems engineering to solve complex technical and operational problems to meet both business and customer needs while working on a project and to handle project processes effectively and efficiently the knowledge of instrumentation project management is necessary. THereby contributing directly in employment/entrepreneurship and skill development of a individual	1981
Strength of Material	ME201	Mechanical Engineering	Model real-world problems, Will show the basic knowledge required for design of machine/structural component	2013-14
Applied Thermodynamics	ME202	Mechanical Engineering	Applications of Laws of thermodynamics, demonstrate power cycles, design of steam power plant	2013-14
Mechanical Measurements & Metrology	ME203	Mechanical Engineering	Hands on in applying the concepts of Measurement & Metrology, different types of measurement needed in industry	2013-14
Manufacturing process –I & II	ME205 & ME208	Mechanical Engineering	Select the manufacturing process for the particular engineering components	2013-14
Mathematics-III	MA203	Mechanical Engineering	Analyzing physical phenomena in engineering and technology	2013-14
Theory of Machines	ME206	Mechanical Engineering	Calculate loss of power due to friction in various machine elements, Demonstrate the working of different mechanisms	2013-14
Fluid Mechanics & Hydraulic Machines	ME207	Mechanical Engineering	design various components of pumps and turbines and study their characteristics, develop basic knowledge on Fluid Statistics, Fluid Dynamics, closed conduit flows, hydro-electric power stations	2013-14
Machine Design –I & II	ME301 & ME306	Mechanical Engineering	Understanding the need, steps of machine design, and consideration for manufacturing, evaluate life of machine components against static loads and fluctuating loads	2013-14
Dynamics of Machines	ME302	Mechanical Engineering	design and applications of balancing machine parts, exhibits solutions to issues related to vibration, their effect and its control measures	2013-14
Heat Transfer	ME303	Mechanical Engineering	application of mathematical approach to analyze and solve the numerical on complex heat transfer phenomena's, design, performance analysis and practical applications of heat exchangers.	2013-14
Computer Aided Design	ME309	Mechanical Engineering	use the CAD concepts in design engineering, CAD softwares such as UGNX, CREO, for design	2013-14
Internal Combustion Engine	ME307	Mechanical Engineering	knowledge about Carburetion and fuel injection systems, competency about combustion in SI and CI Engines along with emission of pollutants and related control measures	2014-15
Refrigeration & Air Conditioning	ME308	Mechanical Engineering	Obtain cooling capacity and coefficient of performance by conducting test on vapor compression refrigeration systems, Calculate cooling load for air conditioning systems used for various applications	2014-15
Finite Element Analysis	ME315	Mechanical Engineering	analyze and design real world components, selection of proper methodology for designing and solving a design problem	2014-15
Automobile Engineering	ME401	Mechanical Engineering	Understanding power transmission systems, various types of steering, braking & suspension systems in automobiles	2014-15
Computer Aided Manufacturing	ME402	Mechanical Engineering	design and use of NC technology for manufacturing applications, generate manual/automated part programs for a given part to be machined on NC/CNC system	2014-15
Pressure Vessel Design	ME409	Mechanical Engineering	basics of pressure vessel design and important parameters to design, design internal pressure vessels and external pressure vessels	2014-15
Advanced Welding Techniques	ME410	Mechanical Engineering	Demonstrating the principles of various welding processes and their application and need of advanced welding processes.	2014-15
PLM Fundamentals	MEP501	Mechanical Engineering	PLM Strategy, PLM Solutions	2009-10
New Product Design	MEP502	Mechanical Engineering	understanding of product design, product development process & methodologies, integrate product development process by identifying customer needs by gathering, interpreting, organizing and establishing relative importance of the customer needs	2009-10
Data Management	MEP503	Mechanical Engineering	practicing of various models like E-R model and Relational models, use of tools like spreadsheets and database management software e.g. Oracle, MS Access, MS SQL, etc	2009-10
Customization of PLM Software	MEP512	Mechanical Engineering	Use of SDLC and Prototyping, Server Side Customization, Client Side Customization	2009-10
Dissertation Part-I & Part –II	MEP601& MEP602	Mechanical Engineering	finding solutions to realistic industrial problems and optimize those, develop/ invent newer technology and software	2009-10
Fluid Mechanics & Hydraulic Machines	ME207	Mechanical Engineering	design various components of pumps and turbines and study their characteristics, develop basic knowledge on Fluid Statistics, Fluid Dynamics, closed conduit flows, hydro-electric power stations	2013-14

			2015-16	
Process Modeling & Simulation	CH421	Chemcial Engineering	Employability & Skill development	2009-10
Transport Phenomena	CH422	Chemcial Engineering	Employability	2009-10
Industrial Organization & Management	CH423	Chemcial Engineering	Entrepreneurship	2009-10
Optimization Techniques	CH424	Chemcial Engineering	Employability	2009-10
EL-III /open EL	CH425	Chemcial Engineering	Entrepreneurship	2009-10
Seminar	CH426	Chemcial Engineering	Skill development	2009-10
Minor Project	CH427	Chemcial Engineering	Employability, Entrepreneurship & Skill development	2009-10
EL-IV/open EL	CH428	Chemcial Engineering	Employability	2009-10
EL-V/open EL	CH429	Chemcial Engineering	Employability	2009-10
Elective-VI/ Open Elective	CH430	Chemcial Engineering	Employability & Entrepreneurship	2009-10
Heat Transfer	CH302	Chemcial Engineering	Employability	2009-10
Mass Transfer-I	CH303	Chemcial Engineering	Employability	2009-10
Process Equipment Design & Drawing	CH304	Chemcial Engineering	Employability	2009-10
Chemical Reaction Engg.-I	CH307	Chemcial Engineering	Employability	2009-10
Mass Transfer-II	CH306	Chemcial Engineering	Employability	2009-10
Process Control & Instrumentation	CH308	Chemcial Engineering	Employability	2009-10
Engineering Math-III	MA203	Chemcial Engineering	Employability	2009-10
Applied Physical Chemistry	CH203	Chemcial Engineering	Employability	2009-10
Fluid Particle Mechanics	CH204	Chemcial Engineering	Employability	2015-16
Chemical Process Calculation	CH210	Chemcial Engineering	Employability	2009-10
Chemical Engineering Thermodynamics-I	CH201	Chemcial Engineering	Employability	2015-16
Professional Communication	HS221	Chemcial Engineering	Skill development	2015-16
Engineering Math-IV (Complex Analysis)	MA202A	Chemcial Engineering	Employability	2015-16
Inorganic Chemical Technology	CH202	Chemcial Engineering	Employability	2009-10
Organic Chemical Technology	CH208	Chemcial Engineering	Employability	2009-10
Mechanical Operation	CH211	Chemcial Engineering	Employability	2015-16
Chemical Engineering Thermodynamics-II	CH 206	Chemcial Engineering	Employability	2015-16
Machine Design & Drawing	CH209	Chemcial Engineering	Employability	2009-10
Human values and professional Ethics (HVPE)	UHS222	Chemcial Engineering	Skill development	2015-16
Professional Communication	UHS221	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2015-16
Data Structure	UCS204	UG Computer Science & Engineering	Skill devlopment	2010-11
Object Oriented Programming with Java	UCS209	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Miniproject	EC362	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2013-14
Computer Lab I	UCS211	UG Computer Science & Engineering	Employability/ Entrepreneurship	2013-14
Computer Lab II	UCS212	UG Computer Science & Engineering	Employability	2010-11
Design and Analysis of Algorithms	CS323	UG Computer Science & Engineering	Skill devlopment	2013-14
Computer Lab-III	CS333	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Software Engineering	CS328	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Computer Lab-IV	CS336	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2013-14
Advanced Java Programming	CS332A	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Advanced C Programming	EV525	UG Computer Science & Engineering	Skill devlopment	2010-11
Interactive Python Programming	CS335A	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2013-14
CS335E Cyber Security	CS335E	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Advanced Database Management System	CS422	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
TCP/IP Networking	CS423	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Cryptography and Networking Security	CS424	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2013-14
Distributed Computing	CS431	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Artificial Neural Network	CS440A	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Artificial Intelligence	CS440B	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2013-14
Computer Graphics	CS440C	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Data Mining	CS440E	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Cloud Computing	CS440F	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Information Security	CS440G	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Multimedia System	CS441B	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2013-14
Mobile Computing	CS441C	UG Computer Science & Engineering	Skill devlopment	2010-11

Course	Code	Department	Description	Year
Big Data Analytics	CS441D	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Computer Vesion	CS441E	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Real-time System	CS441F	UG Computer Science & Engineering	Skill devlopment	2010-11
Computer Architecture and Parallel Processing	CSN501	PG Computer Science & Engineering	Skill	2011-12
Advanced Computer Networks	CSN502	PG Computer Science & Engineering	Skill	2011-12
Number Theory and Cryptography	CSN503	PG Computer Science & Engineering	Skill	2011-12
Advanced Operating Systems	CSN504A	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Wireless Sensor Network	CSN504B	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Web Engineering	CSN504C	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Data Warehousing and Data mining	CSN504D	PG Computer Science & Engineering	Entrepreneurship	2011-12
Artificial Neural Network	CSN504E	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Advanced Compilers	CSN504F	PG Computer Science & Engineering	Skill	2011-12
Advanced Computer Algorithms	CSN506	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Information Security	CSN507	PG Computer Science & Engineering	Entrepreneurship	2011-12
Stochastic Processes	CSN508	PG Computer Science & Engineering	Skill	2011-12
Mobile and Wireless Networks	CSN509A	PG Computer Science & Engineering	Entrepreneurship	2011-12
Security Threats and Vulnerabilities	CSN509B	PG Computer Science & Engineering	Entrepreneurship	2011-12
Information Retrieval	CSN509C	PG Computer Science & Engineering	Entrepreneurship	2011-12
Knowledge Based Systems	CSN509D	PG Computer Science & Engineering	Skill	2011-12
Software Project Management	CSN509E	PG Computer Science & Engineering	Skill	2011-12
Distributed Systems	CSN509F	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Communication Skill	HU202	Electrical Engineering	Listening, reading, writing and speaking skills	2014-15
Professional Communication	UHS222	Electrical Engineering	Listening Skills, Reading Skills, Speaking Skills, Integration of Skills, Group Discussion, Personal Interview etc.	2015-16
Human Values and Professional Ethics	UHS221	Electrical Engineering	Self-Exploration, Understanding of professional ethics, Competency of professional ethics etc	2015-16
Basic Electrical Wiring Skill (Open Elective)	EE311	Electrical Engineering	Use and application of various electrical systems , Hands on practice on electrical wiring skills	2015-16
Professional Communication	HS221	UG Electronics & Telecommunication Engineering	Employability, Entrepreneurship & Skill development	2015-16
Sensors and Transducers	IN202	Instrumentation Engineering	Course covers detailed study of sensors used for quantative measurement of different process parameter like pressure, temperature etc. The course content are designed to provide students very essential knowledge required by the process industry. Thereby, contributing directly in employment.	1981
Human Values and Professional Communication	HS221	Instrumentation Engineering	Activities regarding, making the students aware and sensitive to value system in real life situations. To help the students to discriminate between ephemeral and eternal values are carried out helping students to cope up with the different situations ethically.	2015-16
Professional Communication	HS222	Instrumentation Engineering	Course content deals with the development of communication skills viz. verbal and non verbal.	2015-16
Electrical and Electronics Measurements	IN208	Instrumentation Engineering	Course covers detailed study of various electrical and electronivs measurements used for measuring AC and DC quantities like current, voltage, resistance, inductance, capacitance etc. The course content are designed to provide students very essential knowledge required by the process industry. Thereby, contributing directly in employment.	1981
Power Plant Instrumentation	IN311	Instrumentation Engineering	Content of course covers basics of power plant engineering. Third year student under take three weeks training program in thermal power plant. Industrial Visits are organized as a part of curriculum	1981
Digital Signal Processing	IN303	Instrumentation Engineering	Course covers detailed study of discrete-time and digital signal in time and frequency domain and implementation of FIR, IIR filters with different structures. The course content are designed to provide students very essential knowledge required by the industry. Thereby, contributing directly in employment.	1981
Feedback Control System	IN301	Instrumentation Engineering	Course covers the concept of time response and frequency response of the system, fundamental concepts of control systems and mathematical modeling of the system and iterative nature of most designs in order to achieve working systems in a process industries.	1981

Course Name	Code	Department	Description	Year
Process Control	IN307	Instrumentation Engineering	the course contents are design to provide students fundamental aspects of process control, essential knowledge of process dynamics, developing dynamic models of processes, control strategies for linear time-invariant systems and instrumentation aspects and controller tuning in order to assure required performance of the systems knowledgeable in the design of control systems and controller tuning for chemical processes.	1981
Control System Components	IN308	Instrumentation Engineering	to understand the fundamentals of various types of components being used in control systems, identify, select and design a suitable devices and components for use in process industries, knowledge of these components is required to work on various processes and there by contributing directly in employbility/ entrepreneurship.	1981
Humanity Science	HU301	Instrumentation Engineering	Under this course students know the Importance of building positive attitude, self esteem, to know the Cultural heritage of India, cultural tenets, values, peculiarities, family unit, old scriptures, some Life management techniques as preached by Saints, western philosophers etc. Motivation: How does it work, stages from motivation to demotivation, motivational stories, Goal setting of life: Why goals are important?, Why don't more people set goals, how goals can be balanced etc., all these life skills are necessary for being employee of any organisation, entrepreneur etc.	2012-13
Building Automation System	IN407C	Instrumentation Engineering	Course included in syllabus on suggestion given by the Johnson Control, PVT, LTD, Pune. Every year mentioned company allow mimnum two students for six months internship program. 8 students got placed so far in above mentioned company from the year of inclusion of the	2012-13
Instrumentation Project Management	IN402	Instrumentation Engineering	This Course covers basic concepts to address specific management needs at the individual, team, division and/or organizational level, understand the ethical responsibilities of practicing engineering managers and the impact of their decisions within a global and societal context, apply systems engineering to solve complex technical and operational problems to meet both business and customer needs while working on a project and to handle project processes effectively and efficiently the knowledge of instrumentation project management is necessary. THereby contributing directly in employment/entrepreneurship and skill developement of a individual	1981
Java Programming	IT 208	Information Technology	Three days workshop on "JAVA " by Mane Sir L&T Pune	2015-16
E Commerce	IT 405	Information Technology	Entrepreneurship	2015-16
Computer Laboratory - II(HTML,CSS,Javascript,)	IT311	Information Technology	Skill development	2015-16
Seminar	IT 313	Information Technology	Skill development	2015-16
Computer Laboratory-III (CS) (PHP+MySQL)	IT311	Information Technology	Skill development	2015-16
Data Base Management System (CS)	IT307	Information Technology	Skill development	2015
Computer Laboratory - V	IT411	Information Technology	Three days workshop on " Advanced JAVA " by Mane Sir L&T Pune	2015
Human Values and professional Ethics	HS222	Mechanical Engineering	Process for value education, Understanding Harmony, understanding the professional ethics	2015-16
Professional Communication	HS221	Mechanical Engineering	Listening skills, reading skills, writing skills, speaking skills	2015-16
Strength of Material	ME201	Mechanical Engineering	Model real-world problems, Will show the basic knowledge required for design of machine/structural component	2013-14
Applied Thermodynamics	ME202	Mechanical Engineering	Applications of Laws of thermodynamics, demonstrate power cycles, design of steam power plant	2013-14
Mechanical Measurements & Metrology	ME203	Mechanical Engineering	Hands on in applying the concepts of Measurement & Metrology, different types of measurement needed in industry	2013-14
Manufacturing process –I & II	ME205 & ME208	Mechanical Engineering	Select the manufacturing process for the particular engineering components	2013-14
Mathematics-III	MA203	Mechanical Engineering	Analyzing physical phenomena in engineering and technology	2013-14
Theory of Machines	ME206	Mechanical Engineering	Calculate loss of power due to friction in various machine elements, Demonstrate the working of different mechanisms	2013-14
Fluid Mechanics & Hydraulic Machines	ME207	Mechanical Engineering	design various components of pumps and turbines and study their characteristics, develop basic knowledge on Fluid Statistics, Fluid Dynamics, closed conduit flows, hydro-electric power stations	2013-14
Machine Drawing & CAD	ME209	Mechanical Engineering	Construct an assembly drawing of a machine unit list the parts, Construct a bill of materials including purchased parts and create a typical drawing sequence Numbers	2015-16
Machine Design –I & II	ME301 & ME306	Mechanical Engineering	Understanding the need, steps of machine design, and consideration for manufacturing, evaluate life of machine components against static loads and fluctuating loads	2013-14
Dynamics of Machines	ME302	Mechanical Engineering	design and applications of balancing machine parts, exhibits solutions to issues related to vibration, their effect and its control measures	2013-14
Heat Transfer	ME303	Mechanical Engineering	application of mathematical approach to analyze and solve the numerical on complex heat transfer phenomena's, design, performance analysis and practical applications of heat exchangers.	2013-14

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Course	Code	Department	Outcome	Year
Computer Aided Design	ME309	Mechanical Engineering	use the CAD concepts in design engineering, CAD softwares such as UGNX, CREO, for design	2013-14
Mechatronics-I&II	ME312& ME316	Mechanical Engineering	Designing of automated system modeling, use of automation for robotics	2015-16
Internal Combustion Engine	ME307	Mechanical Engineering	knowledge about Carburetion and fuel injection systems, competency about combustion in SI and CI Engines along with emission of pollutants and related control measures	2014-15
Refrigeration & Air Conditioning	ME308	Mechanical Engineering	Obtain cooling capacity and coefficient of performance by conducting test on vapor compression refrigeration systems, Calculate cooling load for air conditioning systems used for various applications	2014-15
Finite Element Analysis	ME315	Mechanical Engineering	analyze and design real world components, selection of proper methodology for designing and solving a design problem	2014-15
Automobile Engineering	ME401	Mechanical Engineering	Understanding power transmission systems, various types of steering, braking & suspension systems in automobiles	2014-15
Computer Aided Manufacturing	ME402	Mechanical Engineering	design and use of NC technology for manufacturing applications, generate manual/automated part programs for a given part to be machined on NC/CNC system	2014-15
Power Plant Engineering	ME407	Mechanical Engineering	techniques of power generation and storage systems, calculation of economy of power plant	2015-16
Pressure Vessel Design	ME409	Mechanical Engineering	basics of pressure vessel design and important parameters to design, design internal pressure vessels and external pressure vessels	2014-15
Advanced Welding Techniques	ME410	Mechanical Engineering	Demonstrating the principles of various welding processes and their application and need of advanced welding processes.	2014-15
Heating Ventilation & Air Conditioning	ME417	Mechanical Engineering	Use of psychometrics and thermodynamics to heating and cooling analysis, Design air-handling systems using concepts from fluid dynamics	2015-16
Shop Floor Automation	ME 419	Mechanical Engineering	basics of production lines and its real life application, solve various manufacturing and assembly lines problems, concepts of automation and control systems for manufacturing	2015-16
Major Project	ME405	Mechanical Engineering	Design, analyze and manufacture the machines/testing rigs/experimental setup, Solve the problems of industry through project work, Learn presentation skills and documentation	2015-16
PLM Fundamentals	MEP501	Mechanical Engineering	PLM Strategy, PLM Solutions	2009-10
New Product Design	MEP502	Mechanical Engineering	understanding of product design, product development process & methodologies, integrate product development process by identifying customer needs by gathering, interpreting, organizing and establishing relative importance of the customer needs	2009-10
Data Management	MEP503	Mechanical Engineering	practicing of various models like E-R model and Relational models, use of tools like spreadsheets and database management software e.g. Oracle, MS Access, MS SQL, etc	2009-10
Customization of PLM Software	MEP512	Mechanical Engineering	Use of SDLC and Prototyping, Server Side Customization, Client Side Customization	2009-10
Dissertation Part-I & Part –II	MEP601& MEP602	Mechanical Engineering	finding solutions to realistic industrial problems and optimize those, develop/ invent newer technology and software	2009-10
Professional Communication	HS221	Production Engineering	Listening skills, reading skills, writing skills, speaking skills	2015-16
Human Values and professional Ethics	HS222	Production Engineering	Process for value education, Understanding Harmony, understanding the professional ethics	2015-16
Fluid Mechanics & Hydraulic Machines	ME207	Mechanical Engineering	design various components of pumps and turbines and study their characteristics, develop basic knowledge on Fluid Statistics, Fluid Dynamics, closed conduit flows, hydro-electric power stations	2013-14
Yarn manufacture- I	TT201	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16
Weaving Technology-I	TT203	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16
Textile Testing-I	TT205	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16
Natural Fibres & Fibre Forming Polymers	TT207	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16
Human Values & Professional Ethics	HS221	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16
Mathematics III	MA202	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16
Yarn manufacture- II	TT204	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16
Weaving Technology-II	TT206	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16
Textile Testing-II	TT208	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16
Textile Wet Processing- I	TT210	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16
Professional Communication	HS222	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16

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			2016-17	
Process Modeling & Simulation	CH421	Chemcial Engineering	Employability & Skill development	2009-10
Transport Phenomena	CH422	Chemcial Engineering	Employability	2009-10
Industrial Organization & Management	CH423	Chemcial Engineering	Entrepreneurship	2009-10
Optimization Techniques	CH424	Chemcial Engineering	Employability	2009-10
EL-III /open EL	CH425	Chemcial Engineering	Entrepreneurship	2009-10
Seminar	CH426	Chemcial Engineering	Skill development	2009-10
Minor Project	CH427	Chemcial Engineering	Employability, Entrepreneurship & Skill development	2009-10
EL-IV/open EL	CH428	Chemcial Engineering	Employability	2009-10
EL-V/open EL	CH429	Chemcial Engineering	Employability	2009-10
Elective-VI/ Open Elective	CH430	Chemcial Engineering	Employability & Entrepreneurship	2009-10
Heat Transfer	CH302	Chemcial Engineering	Employability	2009-10
Mass Transfer-I	CH303	Chemcial Engineering	Employability	2009-10
Process Equipment Design & Drawing	CH304	Chemcial Engineering	Employability	2009-10
Chemical Reaction Engg.-I	CH307	Chemcial Engineering	Employability	2009-10
Elective-I	CH311	Chemcial Engineering	Employability	2016-17
Industrial In plant training	CH 316	Chemcial Engineering	Employability & Skill development	2016-17
Computer Programming &Application	CH312	Chemcial Engineering	Employability	2016-17
Mass Transfer-II	CH306	Chemcial Engineering	Employability	2009-10
Process Control & Instrumentation	CH308	Chemcial Engineering	Employability	2009-10
Chemical Reaction Engg.II	CH313	Chemcial Engineering	Employability	2016-17
Plant Design and Economics Management	CH314	Chemcial Engineering	Entrepreneurship	2016-17
Elective –II	CH315	Chemcial Engineering	Entrepreneurship	2016-17
Engineering Math-III	MA203	Chemcial Engineering	Employability	2009-10
Applied Physical Chemistry	CH203	Chemcial Engineering	Employability	2009-10
Fluid Particle Mechanics	CH204	Chemcial Engineering	Employability	2015-16
Chemical Process Calculation	CH210	Chemcial Engineering	Employability	2009-10
Chemical Engineering Thermodynamics-I	CH201	Chemcial Engineering	Employability	2015-16
Professional Communication	HS221	Chemcial Engineering	Skill development	2015-16
Engineering Math-IV (Complex Analysis)	MA202A	Chemcial Engineering	Employability	2015-16
Inorganic Chemical Technology	CH202	Chemcial Engineering	Employability	2009-10
Organic Chemical Technology	CH208	Chemcial Engineering	Employability	2009-10
Mechanical Operation	CH211	Chemcial Engineering	Employability	2015-16
Chemical Engineering Thermodynamics-II	CH 206	Chemcial Engineering	Employability	2015-16
Machine Design & Drawing	CH209	Chemcial Engineering	Employability	2009-10
Human values and professional Ethics (HVPE)	UHS222	Chemcial Engineering	Skill development	2015-16
Professional Communication	HU205	UG Civil Engineering	Employability, Entrepreneurship & Skill development	2016-17
Human Values and Professional Ethics	HU221	UG Civil Engineering	Professional Ethics	2016-17
Professional Communication	UHS221	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2015-16
Data Structure	UCS204	UG Computer Science & Engineering	Skill devlopment	2010-11
Object Oriented Programming with Java	UCS209	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Miniproject	EC362	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2013-14
Computer Lab I	UCS211	UG Computer Science & Engineering	Employability/ Entrepreneurship	2013-14
Computer Lab II	UCS212	UG Computer Science & Engineering	Employability	2010-11
Design and Analysis of Algorithms	CS323	UG Computer Science & Engineering	Skill devlopment	2013-14
Computer Lab-III	CS333	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Software Engineering	CS328	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Computer Lab-IV	CS336	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2013-14
Advanced Java Programming	CS332A	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Advanced C Programming	EV525	UG Computer Science & Engineering	Skill devlopment	2010-11
Interactive Python Programming	CS335A	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2013-14
CS335E Cyber Security	CS335E	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Advanced Database Management System	CS422	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
TCP/IP Networking	CS423	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Cryptography and Networking Security	CS424	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2013-14
Distributed Computing	CS431	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11

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Course Name	Code	Department	Focus	Year
Artificial Neural Network	CS440A	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Artificial Intelligence	CS440B	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2013-14
Computer Graphics	CS440C	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Data Mining	CS440E	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Cloud Computing	CS440F	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Information Security	CS440G	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Multimedia System	CS441B	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2013-14
Mobile Computing	CS441C	UG Computer Science & Engineering	Skill devlopment	2010-11
Big Data Analytics	CS441D	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Computer Vesion	CS441E	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Real-time System	CS441F	UG Computer Science & Engineering	Skill devlopment	2010-11
Computer Architecture and Parallel Processing	CSN501	PG Computer Science & Engineering	Skill	2011-12
Advanced Computer Networks	CSN502	PG Computer Science & Engineering	Skill	2011-12
Number Theory and Cryptography	CSN503	PG Computer Science & Engineering	Skill	2011-12
Advanced Operating Systems	CSN504A	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Wireless Sensor Network	CSN504B	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Web Engineering	CSN504C	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Data Warehousing and Data mining	CSN504D	PG Computer Science & Engineering	Entrepreneurship	2011-12
Artificial Neural Network	CSN504E	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Advanced Compilers	CSN504F	PG Computer Science & Engineering	Skill	2011-12
Information System Security for Professionals- Part I	CSN504G	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2016-17
Advanced Computer Algorithms	CSN506	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Information Security	CSN507	PG Computer Science & Engineering	Entrepreneurship	2011-12
Stochastic Processes	CSN508	PG Computer Science & Engineering	Skill	2011-12
Mobile and Wireless Networks	CSN509A	PG Computer Science & Engineering	Entrepreneurship	2011-12
Security Threats and Vulnerabilities	CSN509B	PG Computer Science & Engineering	Entrepreneurship	2011-12
Information Retrieval	CSN509C	PG Computer Science & Engineering	Entrepreneurship	2011-12
Knowledge Based Systems	CSN509D	PG Computer Science & Engineering	Skill	2011-12
Software Project Management	CSN509E	PG Computer Science & Engineering	Skill	2011-12
Distributed Systems	CSN509F	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Information System Security for Professionals- Part	CSN509G	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2016-17
Communication Skill	HU202	Electrical Engineering	Listening, reading, writing and speaking skills	2014-15
Professional Communication	UHS222	Electrical Engineering	Listening Skills, Reading Skills, Speaking Skills, Integration of Skills, Group Discussion, Personal Interview etc.	2015-16
Human Values and Professional Ethics	UHS221	Electrical Engineering	Self-Exploration, Understanding of professional ethics, Competency of professional ethics etc	2015-16
Basic Electrical Wiring Skill (Open Elective)	EE311	Electrical Engineering	Use and application of various electrical systems , Hands on practice on electrical wiring skills	2015-16
Mini Project and Seminar	EE312	Electrical Engineering	Group of three students have to complete project on latest technology and deliver seminar frequently on its progress	2016-17
Electrical Installation and Design	EE309C	Electrical Engineering	Activity includes design of electrical wiring systems for residential, commercial and industrial buildings, representation electrical systems with standard symbols and drawings, single line diagram etc, pathway to start consultancy in power sector	2016-17
Utilization of Energy and Management	EE310A	Electrical Engineering	Understanding general aspects of energy management, determine efficiency and performance analysis of an electrical system	2016-17
Professional Communication	HS221	UG Electronics & Telecommunication Engineering	Employability, Entrepreneurship & Skill development	2015-16
Data Structure	EC252	UG Electronics & Telecommunication Engineering	Employability	2016-17
Seminar	EC365	UG Electronics & Telecommunication Engineering	Skill Development	2016-17
Miniproject	EC362	UG Electronics & Telecommunication Engineering	Employability, Entrepreneurship & Skill development	2016-17
Embedded Systems	EC360	UG Electronics & Telecommunication Engineering	Employability/ Entrepreneurship	2016-17
Digital System Design using Verilog	EC361C	UG Electronics & Telecommunication Engineering	Employability	2016-17
Sensors and Transducers	IN202	Instrumentation Engineering	Course covers detailed study of sensors used for quantative measurement of different process parameter like pressure, temperature etc. The course content are designed to provide students very essential knowledge required by the process industry. Thereby, contributing directly in employment.	1981

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Course	Code	Department	Description	Year
Human Values and Professional Communication	HS221	Instrumentation Engineering	Activities regarding, making the students aware and sensitive to value system in real life situations. To help the students to discriminate between ephemeral and eternal values are carried out helping students to cope up with the different situations ethically.	2015-16
Professional Communication	HS222	Instrumentation Engineering	Course content deals with the development of communication skills viz. verbal and non verbal.	2015-16
Electrical and Electronics Measurements	IN208	Instrumentation Engineering	Course covers detailed study of various electrical and electronivs measurements used for measuring AC and DC quantities like current, voltage, resistance, inductance, capacitance etc. The course content are designed to provide students very essential knowledge required by the process industry. Thereby, contributing directly in employment.	1981
Distributed Control System	IN309	Instrumentation Engineering	Under this course laboratories has been developed in accordance with requirement of industries. Advanced versions of the equipment like PLC'S and DCS were purchaced. Two industry sponsered laboratories are established and MoU's are signed with the industries. Institute is benifited by generating revenue on conduction of short term training program. Most of skills required by the process automation industries are covered in this course.	2016-17
Industrial Instrumentation	IN302	Instrumentation Engineering	The course content are designed to provide students very essential knowledge required by the process industry. Thereby, contributing directly in employment.	2016-17
Power Plant Instrumentation	IN311	Instrumentation Engineering	Content of course covers basics of power plant engineering. Third year student under take three weeks training program in thermal power plant. Industrial Visits are organized as a part of curriculum	1981
Digital Signal Processing	IN303	Instrumentation Engineering	Course covers detailed study of discrete-time and digital signal in time and frequency domain and implementation of FIR, IIR filters with different structures. The course content are designed to provide students very essential knowledge required by the industry. Thereby, contributing directly in employment.	1981
Feedback Control System	IN301	Instrumentation Engineering	Course covers the concept of time response and frequency response of the system, fundamental concepts of control systems and mathematical modeling of the system and iterative nature of most designs in order to achieve working systems in a process industries.	1981
Process Control	IN307	Instrumentation Engineering	the course contents are design to provide students fundamental aspects of process control, essential knowledge of process dynamics, developing dynamic models of processes, control strategies for linear time-invariant systems and instrumentation aspects and controller tuning in order to assure required performance of the systems knowledgeable in the design of control systems and controller tuning for chemical processes.	1981
Control System Components	IN308	Instrumentation Engineering	to understand the fundamentals of various types of components being used in control systems, identify, select and design a suitable devices and components for use in process industries, knowledge of these components is required to work on various processes and there by contributing directly in employbility/ entrepreneurship.	1981
Humanity Science	HU301	Instrumentation Engineering	Under this course students know the Importance of building positive attitude, self esteem, to know the Cultural heritage of India, cultural tenets, values, peculiarities, family unit, old scriptures, some Life management techniques as preached by Saints, western philosophers etc. Motivation: How does it work, stages from motivation to demotivation, motivational stories, Goal setting of life: Why goals are important?, Why don't more people set goals, how goals can be balanced etc., all these life skills are necessary for being employee of any organisation, entrepreneur etc.	2012-13
Building Automation System	IN407C	Instrumentation Engineering	Course included in syllabus on suggestion given by the Johnson Control, PVT, LTD, Pune. Every year mentioned company allow mimnum two students for six months internship program. 8 students got placed so far in above mentioned company from the year of inclusion of the	2012-13
Instrumentation Project Management	IN402	Instrumentation Engineering	This Course covers basic concepts to address specific management needs at the individual, team, division and/or organizational level, understand the ethical responsibilities of practicing engineering managers and the impact of their decisions within a global and societal context, apply systems engineering to solve complex technical and operational problems to meet both business and customer needs while working on a project and to handle project processes effectively and efficiently the knowledge of instrumentation project management is necessary. THereby contributing directly in employment/entrepreneurship and skill develovement of a individual	1981
Java Programming	IT 208	Information Technology	Three days workshop on "JAVA " by Mane Sir L&T Pune	2015-16

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					2016
Software Testing	IT 308	Information Technology			2016
E Commerce	IT 405	Information Technology	Entrepreneurship		2015-16
Introduction to Data Science	IT407	Information Technology	One week workshop on "Machine Learing"Sponsored by TQEIP-III		2016
Computer Laboratory - II(HTML,CSS,Javascript,)	IT311	Information Technology	Skill development		2015-16
Seminar	IT 313	Information Technology	Skill development		2015-16
Computer Laboratory-III (CS) (PHP+MySQL)	IT311	Information Technology	Skill development		2015-16
Computer Laboratory-IV (CS)(Python Programming	IT312	Information Technology	Skill development		2016
Data Base Management System (CS)	IT307	Information Technology	Skill development		2015
Computer Laboratory - V	IT411	Information Technology	Three days workshop on " Advanced JAVA " by Mane Sir L&T Pune		2015
Human Values and professional Ethics	HS222	Mechanical Engineering	Process for value education, Understanding Harmony, understanding the professional ethics		2015-16
Professional Communication	HS221	Mechanical Engineering	Listening skills, reading skills, writing skills, speaking skills		2015-16
Strength of Material	ME201	Mechanical Engineering	Model real-world problems, Will show the basic knowledge required for design of machine/structural component		2013-14
Applied Thermodynamics	ME202	Mechanical Engineering	Applications of Laws of thermodynamics, demonstrate power cycles, design of steam power plant		2013-14
Mechanical Measurements & Metrology	ME203	Mechanical Engineering	Hands on in applying the concepts of Measurement & Metrology, different types of measurement needed in industry		2013-14
Manufacturing process –I & II	ME205 & ME208	Mechanical Engineering	Select the manufacturing process for the particular engineering components		2013-14
Mathematics-III	MA203	Mechanical Engineering	Analyzing physical phenomena in engineering and technology		2013-14
Theory of Machines	ME206	Mechanical Engineering	Calculate loss of power due to friction in various machine elements, Demonstrate the working of different mechanisms		2013-14
Fluid Mechanics & Hydraulic Machines	ME207	Mechanical Engineering	design various components of pumps and turbines and study their characteristics, develop basic knowledge on Fluid Statics, Fluid Dynamics, closed conduit flows, hydro-electric power stations		2013-14
Machine Drawing & CAD	ME209	Mechanical Engineering	Construct an assembly drawing of a machine unit list the parts, Construct a bill of materials including purchased parts and create a typical drawing sequence Numbers		2015-16
Machine Design –I & II	ME301 & ME306	Mechanical Engineering	Understanding the need, steps of machine design, and consideration for manufacturing, evaluate life of machine components against static loads and fluctuating loads		2013-14
Dynamics of Machines	ME302	Mechanical Engineering	design and applications of balancing machine parts, exhibits solutions to issues related to vibration, their effect and its control measures		2013-14
Heat Transfer	ME303	Mechanical Engineering	application of mathematical approach to analyze and solve the numerical on complex heat transfer phenomena's, design, performance analysis and practical applications of heat exchangers.		2013-14
Computer Aided Design	ME309	Mechanical Engineering	use the CAD concepts in design engineering, CAD softwares such as UGNX, CREO, for design		2013-14
Mechatronics-I&II	ME312& ME316	Mechanical Engineering	Designing of automated system modeling, use of automation for robotics		2015-16
Internal Combustion Engine	ME307	Mechanical Engineering	knowledge about Carburetion and fuel injection systems, competency about combustion in SI and CI Engines along with emission of pollutants and related control measures		2014-15
Refrigeration & Air Conditioning	ME308	Mechanical Engineering	Obtain cooling capacity and coefficient of performance by conducting test on vapor compression refrigeration systems, Calculate cooling load for air conditioning systems used for various applications		2014-15
Finite Element Analysis	ME315	Mechanical Engineering	analyze and design real world components, selection of proper methodology for designing and solving a design problem		2014-15
Automobile Engineering	ME401	Mechanical Engineering	Understanding power transmission systems, various types of steering, braking & suspension systems in automobiles		2014-15
Computer Aided Manufacturing	ME402	Mechanical Engineering	design and use of NC technology for manufacturing applications, generate manual/automated part programs for a given part to be machined on NC/CNC system		2014-15
Operation Research & Management	ME403	Mechanical Engineering	use of Linear programming techniques, maintaining a schedule and project plan, applying the operations research techniques for real life problems		2016-17
Power Plant Engineering	ME407	Mechanical Engineering	techniques of power generation and storage systems, calculation of economy of power plant		2015-16
Pressure Vessel Design	ME409	Mechanical Engineering	basics of pressure vessel design and important parameters to design, design internal pressure vessels and external pressure vessels		2014-15
Advanced Welding Techniques	ME410	Mechanical Engineering	Demonstrating the principles of various welding processes and their application and need of advanced welding processes.		2014-15
Heating Ventilation & Air Conditioning	ME417	Mechanical Engineering	Use of psychometrics and thermodynamics to heating and cooling analysis, Design air-handling systems using concepts from fluid dynamics		2015-16
Shop Floor Automation	ME 419	Mechanical Engineering	basics of production lines and its real life application, solve various manufacturing and assembly lines problems, concepts of automation and control systems for manufacturing		2015-16
Major Project	ME405	Mechanical Engineering	Design, analyze and manufacture the machines/testing rigs/experimental setup, Solve the problems of industry through project work, Learn presentation skills and documentation		2015-16

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Course Name	Code	Department	Description	Year
PLM Fundamentals	MEP501	Mechanical Engineering	PLM Strategy, PLM Solutions	2009-10
New Product Design	MEP502	Mechanical Engineering	understanding of product design, product development process & methodologies, integrate product development process by identifying customer needs by gathering, interpreting, organizing and establishing relative importance of the customer needs	2009-10
Data Management	MEP503	Mechanical Engineering	practicing of various models like E-R model and Relational models, use of tools like spreadsheets and database management software e.g. Oracle, MS Access, MS SQL, etc	2009-10
Customization of PLM Software	MEP512	Mechanical Engineering	Use of SDLC and Prototyping, Server Side Customization, Client Side Customization	2009-10
Dissertation Part-I & Part –II	MEP601& MEP602	Mechanical Engineering	finding solutions to realistic industrial problems and optimize those, develop/ invent newer technology and software	2009-10
Professional Communication	HS221	Production Engineering	Listening skills, reading skills, writing skills, speaking skills	2015-16
Human Values and professional Ethics	HS222	Production Engineering	Process for value education, Understanding Harmony, understanding the professional ethics	2015-16
Fluid Mechanics & Hydraulic Machines	PR373	Production Engineering	design various components of pumps and turbines and study their	2016-17
Fluid Mechanics & Hydraulic Machines	ME207	Mechanical Engineering	design various components of pumps and turbines and study their characteristics, develop basic knowledge on Fluid Statics, Fluid Dynamics, closed conduit flows, hydro-electric power stations	2013-14
Modern Mfg. Technology	PR371	Production Engineering	Mechanical Processes: Processes principles, equipment, processes parameters, Electrochemical Machining (ECM) Process, Electrochemical Machining (ECM) Process, Laser Beam Machining (LBM) Process, Allied Processes	2016-17
Heat and Mass Transfer	PR372	Production Engineering	Application of mathematical approach to analyze and solve the numerical on complex heat transfer phenomena's, design, performance analysis and practical applications of heat exchangers.	2016-17
Finite Element Analysis	PR374	Production Engineering	analyze and design real world components, selection of proper methodology for designing and solving a design problem	2016-17
Product Design and Development	PR375	Production Engineering	understanding of product design, product development process & methodologies, integrate product development process by identifying customer needs by gathering, interpreting, organizing and establishing relative importance of the customer needs	2016-17
Yarn manufacture- I	TT201	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16
Weaving Technology-I	TT203	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16
Textile Testing-I	TT205	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16
Natural Fibres & Fibre Forming Polymers	TT207	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16
Human Values & Professional Ethics	HS221	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16
Mathematics III	MA202	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16
Yarn manufacture- II	TT204	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16
Weaving Technology-II	TT206	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16
Textile Testing-II	TT208	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16
Textile Wet Processing- I	TT210	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16
Professional Communication	HS222	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16
Yarn manufacture- III	TT351	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
Weaving Technology-III	TT353	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
C++ & Computer Graphics	TT355	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
Man Made Fibres	TT357	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
Mathematics - IV (Complex Analysis)	MA302 A	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
Mathematics - IV (Statistics & Probability)	MA302 B	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
Mathematics - IV (Numerical Methods)	MA302 C	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
Yarn manufacture- IV	TT352	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
Weaving Technology-IV	TT354	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
Textile Wet Processing- I I	TT356	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
Post Spinning & Texturing	TT358 A	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
Fibers for Composite	TT358 B	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
Theory of Textile Structures	TT358 C	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
Garment Technology	TT358 D	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
Costing & Financial Management	TT358 E	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
DBMS	TT358 F	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
Seminar & In-plant Training	TT360	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17

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		2017-18		
Process Modeling & Simulation	CH421	Chemcial Engineering	Employability & Skill development	2009-10
Transport Phenomena	CH422	Chemcial Engineering	Employability	2009-10
Industrial Organization & Management	CH423	Chemcial Engineering	Entrepreneurship	2009-10
Optimization Techniques	CH424	Chemcial Engineering	Employability	2009-10
EL-III /open EL	CH425	Chemcial Engineering	Entrepreneurship	2009-10
Seminar	CH426	Chemcial Engineering	Skill development	2009-10
Minor Project	CH427	Chemcial Engineering	Employability, Entrepreneurship & Skill development	2009-10
EL-IV/open EL	CH428	Chemcial Engineering	Employability	2009-10
EL-V/open EL	CH429	Chemcial Engineering	Employability	2009-10
Elective-VI/ Open Elective	CH430	Chemcial Engineering	Employability & Entrepreneurship	2009-10
Major Project	CH431	Chemcial Engineering	Employability, Entrepreneurship & Skill development	2017-18
Heat Transfer	CH302	Chemcial Engineering	Employability	2009-10
Mass Transfer-I	CH303	Chemcial Engineering	Employability	2009-10
Process Equipment Design & Drawing	CH304	Chemcial Engineering	Employability	2009-10
Chemical Reaction Engg.-I	CH307	Chemcial Engineering	Employability	2009-10
Elective-I	CH311	Chemcial Engineering	Employability	2016-17
Industrial In plant training	CH 316	Chemcial Engineering	Employability & Skill development	2016-17
Computer Programming &Application	CH312	Chemcial Engineering	Employability	2016-17
Mass Transfer-II	CH306	Chemcial Engineering	Employability	2009-10
Process Control & Instrumentation	CH308	Chemcial Engineering	Employability	2009-10
Chemical Reaction Engg.II	CH313	Chemcial Engineering	Employability	2016-17
Plant Design and Economics Management	CH314	Chemcial Engineering	Entrepreneurship	2016-17
Elective –II	CH315	Chemcial Engineering	Entrepreneurship	2016-17
Engineering Math-III	MA203	Chemcial Engineering	Employability	2009-10
Applied Physical Chemistry	CH203	Chemcial Engineering	Employability	2009-10
Fluid Particle Mechanics	CH204	Chemcial Engineering	Employability	2015-16
Chemical Process Calculation	CH210	Chemcial Engineering	Employability	2009-10
Chemical Engineering Thermodynamics-I	CH201	Chemcial Engineering	Employability	2015-16
Professional Communication	HS221	Chemcial Engineering	Skill development	2015-16
Engineering Math-IV (Complex Analysis)	MA202A	Chemcial Engineering	Employability	2015-16
Inorganic Chemical Technology	CH202	Chemcial Engineering	Employability	2009-10
Organic Chemical Technology	CH208	Chemcial Engineering	Employability	2009-10
Mechanical Operation	CH211	Chemcial Engineering	Employability	2015-16
Chemical Engineering Thermodynamics-II	CH 206	Chemcial Engineering	Employability	2015-16
Machine Design & Drawing	CH209	Chemcial Engineering	Employability	2009-10
Human values and professional Ethics (HVPE)	UHS222	Chemcial Engineering	Skill development	2015-16
Professional Communication	HU205	UG Civil Engineering	Employability, Entrepreneurship & Skill development	2016-17
Human Values and Professional Ethics	HU221	UG Civil Engineering	Professional Ethics	2016-17
Field Training	CE311	UG Civil Engineering	Field Knowledge	2017-18
Professional Communication	UHS221	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2015-16
Data Structure	UCS204	UG Computer Science & Engineering	Skill devlopment	2010-11
Object Oriented Programming with Java	UCS209	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Miniproject	EC362	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2013-14
Computer Lab I	UCS211	UG Computer Science & Engineering	Employability/ Entrepreneurship	2013-14
Computer Lab II	UCS212	UG Computer Science & Engineering	Employability	2010-11
Design and Analysis of Algorithms	CS323	UG Computer Science & Engineering	Skill devlopment	2013-14
Computer Lab-III	CS333	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Software Engineering	CS328	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Computer Lab-IV	CS336	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2013-14
Advanced Java Programming	CS332A	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Advanced C Programming	EV525	UG Computer Science & Engineering	Skill devlopment	2010-11
Interactive Python Programming	CS335A	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2013-14
CS335E Cyber Security	CS335E	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Advanced Database Management System	CS422	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
TCP/IP Networking	CS423	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11

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Course	Code	Department	Skill Type	Year
Cryptography and Networking Security	CS424	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2013-14
Distributed Computing	CS431	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Artificial Neural Network	CS440A	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Artificial Intelligence	CS440B	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2013-14
Computer Graphics	CS440C	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Human Computer Interaction	CS440D	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2017-18
Data Mining	CS440E	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Cloud Computing	CS440F	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Information Security	CS440G	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Machine Learning	CS441A	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2017-18
Multimedia System	CS441B	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2013-14
Mobile Computing	CS441C	UG Computer Science & Engineering	Skill devlopment	2010-11
Big Data Analytics	CS441D	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Computer Vesion	CS441E	UG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2010-11
Real-time System	CS441F	UG Computer Science & Engineering	Skill devlopment	2010-11
Computer Architecture and Parallel Processing	CSN501	PG Computer Science & Engineering	Skill	2011-12
Advanced Computer Networks	CSN502	PG Computer Science & Engineering	Skill	2011-12
Number Theory and Cryptography	CSN503	PG Computer Science & Engineering	Skill	2011-12
Advanced Operating Systems	CSN504A	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Wireless Sensor Network	CSN504B	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Web Engineering	CSN504C	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Data Warehousing and Data mining	CSN504D	PG Computer Science & Engineering	Entrepreneurship	2011-12
Artificial Neural Network	CSN504E	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Advanced Compilers	CSN504F	PG Computer Science & Engineering	Skill	2011-12
Information System Security for Professionals- Part I	CSN504G	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2016-17
Advanced Computer Algorithms	CSN506	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
Information Security	CSN507	PG Computer Science & Engineering	Entrepreneurship	2011-12
Stochastic Processes	CSN508	PG Computer Science & Engineering	Skill	2011-12
Mobile and Wireless Networks	CSN509A	PG Computer Science & Engineering	Entrepreneurship	2011-12
Security Threats and Vulnerabilities	CSN509B	PG Computer Science & Engineering	Entrepreneurship	2011-12
Information Retrieval	CSN509C	PG Computer Science & Engineering	Entrepreneurship	2011-12
Knowledge Based Systems	CSN509D	PG Computer Science & Engineering	Skill	2011-12
Software Project Management	CSN509E	PG Computer Science & Engineering	Skill	2011-12
Distributed Systems	CSN509F	PG Computer Science & Engineering	Employability, Entrepreneurship & Skill development	2011-12
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Basic Electrical Wiring Skill (Open Elective)	EE311	Electrical Engineering	Use and application of various electrical systems , Hands on practice on electrical wiring skills	2015-16
Mini Project and Seminar	EE312	Electrical Engineering	Group of three students have to complete project on latest technology and deliver seminar frequently on its progress	2016-17
Electrical Installation and Design	EE309C	Electrical Engineering	Activity includes design of electrical wiring systems for residential, commercial and industrial buildings, representation electrical systems with standard symbols and drawings, single line diagram etc, pathway to start consultancy in power sector	2016-17
Utilization of Energy and Management	EE310A	Electrical Engineering	Understanding general aspects of energy management, determine efficiency and performance analysis of an electrical system	2016-17
Industrial Economics and Management	EE407	Electrical Engineering	Understanding of Industrial Management , Electrical Project Management, Entrepreneurial qualities, Personal management etc.	2017-18
Seminar on Industrial Training	EE406	Electrical Engineering	Students have to deliver seminar on industrial training along with submission of its report completed by them in summer vacation	2017-18
Project (In-house/Industry/Research Institute)	EE410. EE408	Electrical Engineering	Students are allowed to do their major project in industry /research institute for entire one semester.	2017-18
Professional Communication	HS221	UG Electronics & Telecommunication Engineering	Employability, Entrepreneurship & Skill development	2015-16
Data Structure	EC252	UG Electronics & Telecommunication Engineering	Employability	2016-17
Seminar	EC365	UG Electronics & Telecommunication Engineering	Skill Development	2016-17

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Course	Code	Department	Focus	Year
Miniproject	EC362	UG Electronics & Telecommunication Engineering	Employability, Entrepreneurship & Skill development	2016-17
Embedded Systems	EC360	UG Electronics & Telecommunication Engineering	Employability/ Entrepreneurship	2016-17
Digital System Design using Verilog	EC361C	UG Electronics & Telecommunication Engineering	Employability	2016-17
Industrial Organization	EC453	UG Electronics & Telecommunication Engineering	Employability, Entrepreneurship & Skill development	2017-18
Project	EC456	UG Electronics & Telecommunication Engineering	Employability, Entrepreneurship & Skill development	2017-18
Economics/ Management/ Entrepreneurship	EC457C	UG Electronics & Telecommunication Engineering	Employability, Entrepreneurship & Skill development	2017-18
Sensors and Transducers	IN202	Instrumentation Engineering	Course covers detailed study of sensors used for quantative measurement of different process parameter like pressure, temperature etc. The course content are designed to provide students very essential knowledge required by the process industry. Thereby, contributing directly in employment.	1981
Human Values and Professional Communication	HS221	Instrumentation Engineering	Activities regarding, making the students aware and sensitive to value system in real life situations. To help the students to discriminate between ephemeral and eternal values are carried out helping students to cope up with the different situations ethically.	2015-16
Professional Communication	HS222	Instrumentation Engineering	Course content deals with the development of communication skills viz. verbal and non verbal.	2015-16
Electrical and Electronics Measurements	IN208	Instrumentation Engineering	Course covers detailed study of various electrical and electronivs measurements used for measuring AC and DC quantities like current, voltage, resistance, inductance, capacitance etc. The course content are designed to provide students very essential knowledge required by the process industry. Thereby, contributing directly in employment.	1981
Distributed Control System	IN309	Instrumentation Engineering	Under this course laboratories has been developed in accordance with requirement of industries. Advanced versions of the equipment like PLC'S and DCS were purchased. Two industry sponsered laboratories are established and MoU's are signed with the industries. Institute is benifited by generating revenue on conduction of short term training program. Most of skills required by the process automation industries are covered in this course.	2016-17
Industrial Instrumentation	IN302	Instrumentation Engineering	The course content are designed to provide students very essential knowledge required by the process industry. Thereby, contributing directly in employment.	2016-17
Power Plant Instrumentation	IN311	Instrumentation Engineering	Content of course covers basics of power plant engineering. Third year student under take three weeks training program in thermal power plant. Industrial Visits are organized as a part of curriculum	1981
Digital Signal Processing	IN303	Instrumentation Engineering	Course covers detailed study of discrete-time and digital signal in time and frequency domain and implementation of FIR, IIR filters with different structures. The course content are designed to provide students very essential knowledge required by the industry. Thereby, contributing directly in employment.	1981
Feedback Control System	IN301	Instrumentation Engineering	Course covers the concept of time response and frequency response of the system, fundamental concepts of control systems and mathematical modeling of the system and iterative nature of most designs in order to achieve working systems in a process industries.	1981
Process Control	IN307	Instrumentation Engineering	the course contents are design to provide students fundamental aspects of process control, essential knowledge of process dynamics, developing dynamic models of processes, control strategies for linear time-invariant systems and instrumentation aspects and controller tuning in order to assure required performance of the systems knowledgeable in the design of control systems and controller tuning for chemical processes.	1981
Control System Components	IN308	Instrumentation Engineering	to understand the fundamentals of various types of components being used in control systems, identify, select and design a suitable devices and components for use in process industries, knowledge of these components is required to work on various processes and there by contributing directly in employbility/ entrepreneurship.	1981
Humanity Science	HU301	Instrumentation Engineering	Under this course students know the Importance of building positive attitude, self esteem, to know the Cultural heritage of India, cultural tenets, values, peculiarities, family unit, old scriptures, some Life management techniques as preached by Saints, western philosophers etc. Motivation: How does it work, stages from motivation to demotivation, motivational stories, Goal setting of life: Why goals are important?, Why don't more people set goals, how goals can be balanced etc., all these life skills are necessary for being employee of any organisation, entrepreneur etc.	2012-13

Course Name	Code	Department	Description	Year
Building Automation System	IN407C	Instrumentation Engineering	Course included in syllabus on suggestion given by the Johnson Control, PVT, LTD, Pune. Every year mentioned company allow mimnum two students for six months internship program. 8 students got placed so far in above mentioned company from the year of inclusion of the	2012-13
Industrial Internet of things	IN404D	Instrumentation Engineering	Recent technology required in each sector of automation. Workshop on IIOT is conducted on 18-20 Sept, 2018	2017-18
Instrumentation Project Management	IN402	Instrumentation Engineering	This Course covers basic concepts to address specific management needs at the individual, team, division and/or organizational level, understand the ethical responsibilities of practicing engineering managers and the impact of their decisions within a global and societal context, apply systems engineering to solve complex technical and operational problems to meet both business and customer needs while working on a project and to handle project processes effectively and efficiently the knowledge of instrumentation project management is necessary. THereby contributing directly in employment/entrepreneurship and skill develovement of a individual	1981
Java Programming	IT 208	Information Technology	Three days workshop on "JAVA " by Mane Sir L&T Pune	2015-16
Software Testing	IT 308	Information Technology		2016
E Commerce	IT 405	Information Technology	Entrepreneurship	2015-16
Introduction to Data Science	IT407	Information Technology	One week workshop on "Machine Learing"Sponsored by TQEIP-III	2016
Computer Laboratory - II(HTML,CSS,Javascript,)	IT311	Information Technology	Skill development	2015-16
Seminar	IT 313	Information Technology	Skill development	2015-16
Computer Laboratory-III (CS) (PHP+MySQL)	IT311	Information Technology	Skill development	2015-16
Computer Laboratory-IV (CS)(Python Programming	IT312	Information Technology	Skill development	2016
Data Base Management System (CS)	IT307	Information Technology	Skill development	2015
Computer Laboratory - V	IT411	Information Technology	Three days workshop on " Advanced JAVA " by Mane Sir L&T Pune	2015
Human Values and professional Ethics	HS222	Mechanical Engineering	Process for value education, Understanding Harmony, understanding the professional ethics	2015-16
Professional Communication	HS221	Mechanical Engineering	Listening skills, reading skills, writing skills, speaking skills	2015-16
Strength of Material	ME201	Mechanical Engineering	Model real-world problems, Will show the basic knowledge required for design of machine/structural component	2013-14
Applied Thermodynamics	ME202	Mechanical Engineering	Applications of Laws of thermodynamics, demonstrate power cycles, design of steam power plant	2013-14
Mechanical Measurements & Metrology	ME203	Mechanical Engineering	Hands on in applying the concepts of Measurement & Metrology, different types of measurement needed in industry	2013-14
Manufacturing process –I & II	ME205 & ME208	Mechanical Engineering	Select the manufacturing process for the particular engineering components	2013-14
Mathematics-III	MA203	Mechanical Engineering	Analyzing physical phenomena in engineering and technology	2013-14
Theory of Machines	ME206	Mechanical Engineering	Calculate loss of power due to friction in various machine elements, Demonstrate the working of different mechanisms	2013-14
Fluid Mechanics & Hydraulic Machines	ME207	Mechanical Engineering	design various components of pumps and turbines and study their characteristics, develop basic knowledge on Fluid Statistics, Fluid Dynamics, closed conduit flows, hydro-electric power stations	2013-14
Machine Drawing & CAD	ME209	Mechanical Engineering	Construct an assembly drawing of a machine unit list the parts, Construct a bill of materials including purchased parts and create a typical drawing sequence Numbers	2015-16
Machine Design –I & II	ME301 & ME306	Mechanical Engineering	Understanding the need, steps of machine design, and consideration for manufacturing, evaluate life of machine components against static loads and fluctuating loads	2013-14
Dynamics of Machines	ME302	Mechanical Engineering	design and applications of balancing machine parts, exhibits solutions to issues related to vibration, their effect and its control measures	2013-14
Heat Transfer	ME303	Mechanical Engineering	application of mathematical approach to analyze and solve the numerical on complex heat transfer phenomena's, design, performance analysis and practical applications of heat exchangers.	2013-14
Computer Aided Design	ME309	Mechanical Engineering	use the CAD concepts in design engineering, CAD softwares such as UGNX, CREO, for design	2013-14
Mechatronics-I&II	ME312& ME316	Mechanical Engineering	Designing of automated system modeling, use of automation for robotics	2015-16
Internal Combustion Engine	ME307	Mechanical Engineering	knowledge about Carburetion and fuel injection systems, competency about combustion in SI and CI Engines along with emission of pollutants and related control measures	2014-15
Refrigeration & Air Conditioning	ME308	Mechanical Engineering	Obtain cooling capacity and coefficient of performance by conducting test on vapor compression refrigeration systems, Calculate cooling load for air conditioning systems used for various applications	2014-15
Finite Element Analysis	ME315	Mechanical Engineering	analyze and design real world components, selection of proper methodology for designing and solving a design problem	2014-15
Automobile Engineering	ME401	Mechanical Engineering	Understanding power transmission systems, various types of steering, braking & suspension systems in automobiles	2014-15

Course Name	Code	Department	Description	Year
Computer Aided Manufacturing	ME402	Mechanical Engineering	design and use of NC technology for manufacturing applications, generate manual/automated part programs for a given part to be machined on NC/CNC system	2014-15
Operation Research & Management	ME403	Mechanical Engineering	use of Linear programming techniques, maintaining a schedule and project plan, applying the operations research techniques for real life problems	2016-17
Power Plant Engineering	ME407	Mechanical Engineering	techniques of power generation and storage systems, calculation of economy of power plant	2015-16
Pressure Vessel Design	ME409	Mechanical Engineering	basics of pressure vessel design and important parameters to design, design internal pressure vessels and external pressure vessels	2014-15
Advanced Welding Techniques	ME410	Mechanical Engineering	Demonstrating the principles of various welding processes and their application and need of advanced welding processes.	2014-15
Heating Ventilation & Air Conditioning	ME417	Mechanical Engineering	Use of psychometrics and thermodynamics to heating and cooling analysis, Design air-handling systems using concepts from fluid dynamics	2015-16
Shop Floor Automation	ME 419	Mechanical Engineering	basics of production lines and its real life application, solve various manufacturing and assembly lines problems, concepts of automation and control systems for manufacturing	2015-16
Major Project	ME405	Mechanical Engineering	Design, analyze and manufacture the machines/testing rigs/experimental setup, Solve the problems of industry through project work, Learn presentation skills and documentation	2015-16
PLM Fundamentals	MEP501	Mechanical Engineering	PLM Strategy, PLM Solutions	2009-10
New Product Design	MEP502	Mechanical Engineering	understanding of product design, product development process & methodologies, integrate product development process by identifying customer needs by gathering, interpreting, organizing and establishing relative importance of the customer needs	2009-10
Data Management	MEP503	Mechanical Engineering	practicing of various models like E-R model and Relational models, use of tools like spreadsheets and database management software e.g. Oracle, MS Access, MS SQL, etc	2009-10
Customization of PLM Software	MEP512	Mechanical Engineering	Use of SDLC and Prototyping, Server Side Customization, Client Side Customization	2009-10
Dissertation Part-I & Part –II	MEP601& MEP602	Mechanical Engineering	finding solutions to realistic industrial problems and optimize those, develop/ invent newer technology and software	2009-10
Professional Communication	HS221	Production Engineering	Listening skills, reading skills, writing skills, speaking skills	2015-16
Human Values and professional Ethics	HS222	Production Engineering	Process for value education, Understanding Harmony, understanding the professional ethics	2015-16
Fluid Mechanics & Hydraulic Machines	PR373	Production Engineering	design various components of pumps and turbines and study their	2016-17
Fluid Mechanics & Hydraulic Machines	ME207	Mechanical Engineering	design various components of pumps and turbines and study their characteristics, develop basic knowledge on Fluid Statistics, Fluid Dynamics, closed conduit flows, hydro-electric power stations	2013-14
Modern Mfg. Technology	PR371	Production Engineering	Mechanical Processes: Processes principles, equipment, processes parameters, Electrochemical Machining (ECM) Process, Electrochemical Machining (ECM) Process, Laser Beam Machining (LBM) Process, Allied Processes	2016-17
Heat and Mass Transfer	PR372	Production Engineering	Application of mathematical approach to analyze and solve the numerical on complex heat transfer phenomena's, design, performance analysis and practical applications of heat exchangers.	2016-17
Finite Element Analysis	PR374	Production Engineering	analyze and design real world components, selection of proper methodology for designing and solving a design problem	2016-17
Product Design and Development	PR375	Production Engineering	understanding of product design, product development process & methodologies, integrate product development process by identifying customer needs by gathering, interpreting, organizing and establishing relative importance of the customer needs	2016-17
CAD/CAM and Robotics	PR404	Production Engineering	Introduction CAD, CAE and CAM, History, Scope, Need and Necessity, Applications, Hardware & software facilities in CAD, Computational geometry, design and use of NC technology for manufacturing applications, generate manual/automated part programs for a given part to be machined on NC/CNC system, Robotics	2017-18
Tools for Six Sigma Quality	PR403	Production Engineering	Introduction, History, Definitions, Levels of Six Sigma, Characteristics and Objectives of Six Sigma, Road map for six sigma using DMAIC methodology, multi-variable chart, The need for DFSS, the road map, VOC, K. J. diagrams, Kano Model, Capability Growth Index (CGI), Quality Function Development	2017-18
Operation Research & Management	PR405	Production Engineering	use of Linear programming techniques, maintaining a schedule and project plan, applying the operations research techniques for real life problems	2017-18
Elements of PLM	PR409	Production Engineering	PLM Strategy, PLM Solutions	2017-18
Project	PR421	Production Engineering	Design, analyze and manufacture the machines/testing rigs/experimental setup, Solve the problems of industry through project work, Learn presentation skills and documentation	2017-18
Yarn manufacture- I	TT201	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16
Weaving Technology-I	TT203	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16
Textile Testing-I	TT205	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16
Natural Fibres & Fibre Forming Polymers	TT207	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16
Human Values & Professional Ethics	HS221	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16
Mathematics III	MA202	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16
Yarn manufacture- II	TT204	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16

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Weaving Technology-II	TT206	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16
Textile Testing-II	TT208	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16
Textile Wet Processing- I	TT210	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16
Professional Communication	HS222	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2015-16
Yarn manufacture- III	TT351	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
Weaving Technology-III	TT353	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
C++ & Computer Graphics	TT355	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
Man Made Fibres	TT357	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
Mathematics - IV (Complex Analysis)	MA302 A	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
Mathematics - IV (Statistics & Probability)	MA302 B	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
Mathematics - IV (Numerical Methods)	MA302 C	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
Yarn manufacture- IV	TT352	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
Weaving Technology-IV	TT354	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
Textile Wet Processing- I I	TT356	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
Post Spinning & Texturing	TT358 A	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
Fibers for Composite	TT358 B	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
Theory of Textile Structures	TT358 C	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
Garment Technology	TT358 D	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
Costing & Financial Management	TT358 E	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
DBMS	TT358 F	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
Seminar & In-plant Training*	TT360	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2016-17
Technical Textiles-I	TT401	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2017-18
Production Management	TT403	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2017-18
Knitting & Nonwovens	TT405	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2017-18
Mini Project	TT407	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2017-18
Statistical Process Control in Spinning	TT409A	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2017-18
Advances in Finishing	TT409B	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2017-18
Merchandizing & Supply chain mgt.	TT409C	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2017-18
Smart Textiles	TT409D	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2017-18
Open Elective I		Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2017-18
Project – A* (to be carried out in the Institute)	TT402	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2017-18
Seminar	TT404	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2017-18
In-Plant Training	TT406	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2017-18
Process Control in Weaving	TT408A	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2017-18
Technical Textiles-II	TT408B	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2017-18
Information Technology	TT408C	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2017-18
Indian Textile and Clothing Industry	TT408D	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2017-18
Project – B* (To be carried out in the identified Industry / R & D Organization)	TT410	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2017-18
Case Study	TT412	Textile Technology	Imparts latest state of the art knowledge and practice of textile industry	2017-18