

Department of Mechanical Engineering
Course Outcomes
(A.Y. 2020-2021)
Odd Sem



METHODIST

COLLEGE OF ENGINEERING AND TECHNOLOGY

Approved by AICTE New Delhi | Affiliated to Osmania University, Hyderabad

Estd. : 2008 Address : King Koti Road, Abids, Hyderabad, Telangana, 500001 | Email : principal@methodist.edu.in

Department of Mechanical Engineering

Course Outcomes

III Sem (A.Y. 2020-2021)

S No	Course Code	Course Name	Faculty Name	CO No.	Course Outcomes	Taxonomy Level
1	BS205MT	Mathematics III	Dr. Swathi, Mr. T. Joseph/ Mr. D. Swamy	C201.1	Find the general solutions of the given differential equations.	Remember
				C201.2	Solve the wave equation, heat equations and laplace equations of given problems	Apply
				C201.3	Solve the discrete and continuous random variables and distributions.	Apply
				C201.4	Examine the correlation coefficient and rank correlation for the given data.	Analyze
				C201.5	Determine straight line equation, parabola equation and exponential equation.	Evaluate
				C201.6	Evaluate t-distribution F-distribution and chi-square distributions.	Evaluate
2	ES211ME	Engineering Mechanics	Mrs. G. Sweetha	C202.1	Apply the fundamental concepts of forces, equilibrium conditions for static loads.	Apply
				C202.2	Determine the Centroid and moment of inertia for cross various sections.	Evaluate
				C202.3	Analyse the forces in the members of a truss using method of joints and method of sections	Analyze
				C202.4	Explain the concept of friction for single and connected bodies.	Understand
				C202.5	Apply the basic concepts of dynamics, their behaviour, analysis and motion bodies	Apply
				C202.6	Solve problems involving work energy principles and impulse momentum theory.	Apply
3	ES214EC	Basic Electronics	Mr. I. POORNA CHANDER	C203.1	Explain the basic knowledge on the working of various semi-conductor devices and their importance in the present electronics	Understand
				C203.2	Apply and develop analysis capability in BJT and FET Amplifier Circuits	Apply
				C203.3	Make use of knowledge on design trade-offs in various digital electronic families with a view towards reduced power consumption	Apply
				C203.4	Examine Operational Amplifier circuits as Summer, differentiator, integrator, inverting and non inverting amplifiers as ideal and practical	Analyze
				C203.5	Evaluate Boolean laws and theorems. State and explain the different logic gates using truth table. Analyze and design different adder circuits.	Create
				C203.6	Design the circuit to produce pure DC using regulators, and produce sinusoidal oscillations with different frequencies using oscillator circuits	Create
4	HS201EG	Effective Technical Communication in English	Mrs. Hepzibah	C204.1	Develop an understanding of fundamentals of Technical Communication and handle technical communication effectively	Understand
				C204.2	Demonstrate the ability to choose the right mode of Written Communication in Professional Correspondence	Apply
				C204.3	Analyze and differentiate various types of Reports and use various techniques of Report writing appropriately based on the requisite.	Analyze
				C204.4	Determine the importance of using and Writing different kinds of Manuals, their Classification, and acquire adequate skills of manual writing	Analyze
				C204.5	Estimate the deliberate value of a Visual Aid along with its usage, through the understanding of Information Transfer from Verbal to Non-Verbal and Non-Verbal to Verbal.	Evaluate
				C204.6	Combine the Skill of both Oral and Visual Presentation Skills and be able to adapt to the changing scenario of the present day.	Create
5	HS202CM	Finance and Accounting	Mrs. A. Brundavani	C205.1	Understand the basic concepts of financial accounting & classify preparation of various books of accounts	Understand
				C205.2	Analyze & interpret financial statements.	Analyze
				C205.3	Interpret knowledge about the functioning & working of various financial institutions.	Understand
				C205.4	Apply traditional & modern techniques of capital budgeting in long term investments, to test whether to invest in a particular project or not.	Apply
				C205.5	Analyze the liquidity, solvency & profitability of financial statements.	Analyze
				C205.6	Evaluate the financial performance of the business unit.	Evaluate
ME	Material Science	Varroji	C206.1	Explain the structure of materials at various levels and testing their mechanical properties.	Understand	
			C206.2	Describe fatigue, creep failure and experimentally determine fatigue, creep strength, also list different types of fracture.	Understand	
			C206.3	Explain phase diagrams and identify various phases, composition by analyzing the phase diagrams.	Analyze	




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6	PC221U	Metallurgy and M	Mr. V. V. V	C206.4	Classify different types of plain carbon steels, cast irons and explain their applications.	Analyze
				C206.5	Explain various heat treatment techniques, effects of the alloying elements on the properties of steel and select various alloying elements for a particular engineering application.	Apply
				C206.6	Explain the properties, of non-ferrous metals, ceramics, polymers, composites and choose a particular material for an application.	Apply
7	PC222ME	Thermodynamics	Mr. Y. M. M. Reddy	C208.1	Define Thermodynamics concept of Zeroth law of thermodynamics, Temperature Scales and Thermodynamics Equilibrium, partial pressures and partial volumes	Remember
				C208.2	Evaluate Heat and work interactions and calculate work done during flow processes	Evaluate
				C208.3	Determine of entropy change during various thermodynamic processes	Evaluate
				C208.4	Make use of steam Tables and Mollier diagram for properties of steam	Apply
				C208.5	Determine efficiency of power cycles	Evaluate
				C208.6	Solve the problems on heat engine, heat pump and refrigerator	Apply
8	PC251ME	Metallurgy & Material Testing Lab	Mr. V. Manoj	C209.1	Apply the procedure for preparing the sample for metallographic observation.	Apply
				C209.2	Identify different materials by examining the phases in their microstructure.	Apply
				C209.3	Analyze the effects of various heat treatment by studying the grain structure	Analyze
				C209.4	Determine the tensile, compressive and impact strength for various materials	Evaluate
				C209.5	Measure hardness, shear strength and check their suitability for a given design requirement.	Evaluate
				C209.6	Determine the shear force, bending moment and Youngs modulus of different beams under various loading conditions.	Evaluate
9	PC252ME	M.D.M Lab- Machine Drawing and Modeling Lab	Mr. V. Durgesh	C210.1	Develop the skills in drafting various machine components using AutoCad software.	Understand
				C210.2	Interpret the conventions & symbols used in technical drawings into their physical meanings & vice versa	Understand
				C210.3	Construct orthographic views of simple machine components.	Apply
				C210.4	Demonstrate the working knowledge in solidworks to model, assemble and generate orthographic views.	Understand
				C210.5	Develop 3D models, assemble and generate drawings of components using Solidworks.	Evaluate
				C210.6	Observe 3D interactive CAD models and determine the steps used in modelling them.	Evaluate


 Assessment cell Co-ordinator


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S No	Course Code	Course Name	Faculty Name	CO No.	Course Outcomes	Taxonomy Level
1.0	PC 501 ME	FMHM - Fluid Mechanics and Hydraulic Machinery	Mr. K. Srinivasa Raghavan	C301.1	Understand the properties of the fluid and measurement of pressure	Understand
				C301.2	Analyze the different types of fluid flows	Analyze
				C301.3	Analyze the flow between parallel plates and in pipes and also calculate drag coefficient	Analyze
				C301.4	Calculate the discharge through venturimeter and orificemeter	Apply
				C301.5	Design and working of various types of turbines and able to draw the performance characteristic curves of turbines.	Create
				C301.6	Explain the working principles of pumps and able to draw the performance characteristic curves	Estimate
2.0	PC 502 ME	DME - Design of Machine Elements	Mr. Abdul Fazal	C302.1	Evaluate and Determine the stresses using concepts of Theories of failure, and to select proper material for machine components.	Evaluate
				C302.2	Evaluate the Failure stress of machine components using fatigue theories of failure	Evaluate
				C302.3	Evaluate size of the machine components for torque transmission, bending and axial loads	Evaluate
				C302.4	Analyze the fasteners required for a given application and predicting its efficiency	Analyze
				C302.5	Analyze type of joints, power screws.	Analyze
				C302.6	Differential and compound screws and predicting its efficiency	Analyze
3.0	PC 503 ME	DOM - Dynamics of Machines	Mr. M. Prasad	C303.1	Understand the gyroscopic effects in ships, aero planes and road vehicles	Understand
				C303.2	Analyze and design centrifugal governors & Flywheels	Analyze
				C303.3	Analyze balancing problems in rotating machinery	Analyze
				C303.4	Analyze balancing problems in reciprocating machinery	Analyze
				C303.5	Understand free and forced vibrations of single degree freedom systems	Understand
				C303.6	Understand Torsional vibrations of single degree freedom systems	Understand
4.0	PC 504 ME	MCMT- Metal Cutting and Machine Tools	Mr. R. V. Prasad	C304.1	Explain the Tool geometry, tool materials, desired tool properties, tool life, methods of machining, Chip formation, heat generation, Machining operations, cutting fluids, tool and work holding devices etc.	Understand
				C304.2	Develop relations for chip reduction coefficient, shear angle, shear strain, forces, power, specific energy and temperatures associated orthogonal cutting.	Analyze
				C304.3	Illustrate the working principle, constructional features and specifications associated with common machine tools and U C M P.	Understand
				C304.4	Identify a suitable machine tool for a particular machining operation while calculating tool life and can compare one machining process with other or one equipment with other	Apply
				C304.5	Analyse Tool life, Economics of machining MRR, power consumption and other process parameters for various conventional and U C M P.	Analyze
				C304.6	Design Jigs and Fixtures for various modern machining processes.	Create
5.0	PC 505 ME	HT - Heat Transfer	Dr. P. Ravi Chander	C305.1	Describe heat conduction problems in rectangular, cylindrical and spherical coordinates	Understand
				C305.2	Analyze heat transfer through the fins and familiarize with the time dependent heat transfer	Analyze
				C305.3	Estimate the convective heat transfer coefficient in Free and Forced convection	Evaluate
				C305.4	Determine the radiation heat transfer by calculating the emissivities and shape factors.	Evaluate
				C305.5	Determine the LMTD and NTU in heat exchangers	Evaluate
				C305.6	Explain the mechanisms involved in boiling and condensation.	Understand
6.0	PC 591 ME	TE.Lab -2	Y. M. M. Reddy	C306.1	Analyze the effective thermal resistance in composite slabs and thermal conductivity of metal bar	Analyze
				C306.2	Evaluate heat transfer coefficient in Free & Forced convection.	Evaluate
				C306.3	Evaluate the effectiveness and efficiency of parallel flow and counter flow heat exchanger	Evaluate
				C306.4	Analyze the COP of the Refrigeration test Rig and pressure distribution of specimen in wind tunnel	Analyze



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			Mr.	C306.5	Analyze the overall efficiency of axial flow fan & Centrifugal blower	Analyze
				C306.6	Evaluate the surface emissivity of a test plate & Stefan Boltzmann constant	Evaluate
7.0	PC 592 ME	Dynamics of Machines Lab	Mr. M. Prasad	C307.1	Analyze the performance and draw the characteristic curves for different types of governors.	Analyze
				C307.2	Evaluate the effect of gyroscopic couple at different speeds.	Evaluate
				C307.3	Evaluate kinematic and dynamic behavior of different types of cams.	Evaluate
				C307.4	Evaluate static and dynamic balancing of rotating masses.	Evaluate
				C307.5	Analyze natural frequencies of various beams with different constraints.	Analyze
				C307.6	Determine the critical speed for shafts of various diameter.	Evaluate
8.0	PC 593 ME	F1H1H1 Lab- Fluid Mechanics and Hydraulic Machinery Lab	Mr. K. Srinivasa Raghavan	C308.1	Determine the impact of jet on different types of vanes	Evaluate
				C308.2	Determine the efficiencies of various pumps and draw the characteristic curves.	Evaluate
				C308.3	Determine the efficiencies of various turbines and draw the characteristic curves.	Evaluate
				C308.4	Evaluate the coefficient of discharge of various flow meters and draw the characteristic curves.	Evaluate
				C308.5	Explain the principle of Hydraulic Circuit	Understand
				C308.6	Explain Pneumatic Circuits by studying the models.	Understand


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1	PC701ME	Thermal Turbo Machinery	Dr. Md. Fakhruddin. H. N	C401.1	Analyze the compressible flow patterns and apply it in ducts and other configurations with friction	Analyze
				C401.2	Analyze the flow in ducts with heat transfer and normal shock behaviors. Also evaluate the effects of stagnation conditions.	Analyze
				C401.3	Evaluate the thermodynamic behaviour and analyze the cycles, work done and efficiencies of rotary compressors, centrifugal compressors and axial flow compressors.	Evaluate
				C401.4	Analyze the working of steam turbines, Impulse and Reaction turbines for nozzle efficiency, blade efficiency, work done and apply the principles in actual practice.	Analyze
				C401.5	Evaluate the performance of gas turbines for work output and improve the gas turbine plant performance. Apply the concepts of Aircraft propulsion, Rocket propulsion and Jet propulsion.	Evaluate
				C401.6	Build knowledge in TTM to solve problems encountered in the field.	Create
2	PC702ME	Finite Element Analysis	Mr. Kamal Kumar Ojha	C402.1	Formulate finite element modeling of one dimensional element using Potential energy approach	Evaluate
				C402.2	Formulate the concepts of transformation from local to global matrices	Analyze
				C402.3	Interpolate shape function of beam element in natural coordinate system	Understand
				C402.4	Develop stiffness matrix for a plane stress & plane strain .	Apply
				C402.5	Formulate finite element model to steady state heat transfer analysis using one & two dimensional elements.	Apply
				C402.6	Develop finite element model for 3D Stress Analysis	Apply
3	PC703ME	Industrial Engineering	Dr. Prabhu Raj	C403.1	Apply the knowledge of scientific management in industrial environment	Apply
				C403.2	Demonstrate the importance of production planning & control in manufacturing industry	Understand
				C403.3	Estimate the appropriate inventory control models and financial management practice are applied in industries	Evaluate
				C403.4	Analyses the quality control charts and sampling plan in production unit.	Analyse
				C403.5	Apply the concept of decision making theory and uncertainty risk in work place.	Apply
				C403.6	Develop industrial engineering concepts in industrial environment	Create
4	PC704ME	Production and Operation Management	Dr. P. Shailesh	C404.1	Understand production system and develop a suitable layout	Understand
				C404.2	Remember the forecasting and scheduling techniques to the production system.	Remember
				C404.3	Material requirement planning and analyze aggregate planning techniques.	Analyze
				C404.4	Evaluate the inventory system for independent demand and cost benefit	Evaluate
				C404.5	Understand the usages of PERT/CPM techniques for a given project and develop suitable quantitative models for the projects	Evaluate
				C404.6	Apply a wide variety of production and operation management problems in production and service organization	Apply
5	OE773EC	Fundamental of IOT	Mr. M. Satish Yadav	C405.1	Understand the various applications of IOT and other enabling technologies	Understand
				C405.2	Comprehend various protocols and communication technologies used in IOT	Analyze
				C405.3	Design simple IOT systems with requisite hardware and C programming software	Apply
				C405.4	Understand the relevance of cloud computation and data analytics to IOT	Understand
				C405.5	Comprehend the business model of IOT from developing a prototype to launching a product	Analyze
6	781CE	y Engineering	Srikanth	C406.1	Analyze and prepare accident investigation reports and database.	Analyze
				C406.2	Develop design principles for roadway geometric improvement for operating the road network for safety.	Apply
				C406.3	Analyze traffic regulations and control with various types of traffic safety apparatuses /tools.	Analyze



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	OE7	Road Safety	Mr. R.	C406.4	Understand Road Safety Audit process	Understand
				C406.5	Make use of different methods to manage traffic including Incident Management.	Understand
				C406.6	Evaluate various traffic studies and to maintain inventories on advanced transportation engineering in the field of Traffic Management System(TMS)	Evaluate
7	OE 771 CE	GBT- Green Building Technology	Dr. Akshay S K Naidu	C407.1	Explain the concepts of sustainability and a green buildings, along with its features and benefits.	Understand
				C407.2	Describe the criteria and methods used for site selection & planning and in achieving water efficiency in green buildings.	Understand
				C407.3	Define the terms and explain the methods used for achieving energy efficiency in green buildings.	Understand
				C407.4	Discuss the various types of building materials and waste management methods for a sustainable built environment.	Understand
				C407.5	Describe the methods used to maintain indoor environmental quality.	Understand
				C407.6	List and explain the various Green Building Rating systems applicable in India, and also the standard national and international codes related to green building practices.	Understand
8	OE784EE	IETS- Illumination and Electric Traction system	Mrs. V. Saketha Reddy	C408.1	Design of heating and welding furnaces and calculate the requirements of heating power of an industrial need	Create
				C408.2	Analyze the type of motor control required and select the type and rating of motor	Analyze
				C408.3	Discuss and design illumination of domestic and industrial for application	Understand
				C408.4	Discuss and design traction system	Understand
				C408.5	Analyze the characteristics of motors used in the traction	Analyze
				C408.6	Analyze and evaluate the lighting system of traction and understand the batteries functioning	Analyze
9	HS901MB	Managerial Economics and Accountancy	Ms. Sumaiya	C409.1	Understand the responsibility of a manager and fundamental concepts of managerial economics	Understand
				C409.2	Understand demand analysis and determinants of demand	Understand
				C409.3	Analyse production and markets and compute the future sales level	Analyze
				C409.4	Apply traditional & modern techniques of capital budgeting in long term investments, to test whether to invest in a particular project or not.	Apply
				C409.5	Understand the basic concepts of financial accounting&classify preparation of various books of accounts&Analyze & interpret financial statements.	Understand
				C409.6	Develop the ability to apply the concepts, tools and techniques of economics in analysing and interpreting business decisions.	Apply
10	PC751ME	Thermal Engineering Lab	M. Reddy / Srinivasa Raghavan	C410.1	Analyze the effective thermal resistance in composite slabs and thermal conductivity of metal bar	Analyze
				C410.2	Evaluate heat transfer coefficient in Free & Forced convection.	Evaluate
				C410.3	Evaluate the effectiveness and efficiency of parallel flow and counter flow heat exchanger	Evaluate
				C410.4	Analyze the COP of the Refrigeration test rig and Pressure distribution of specimen in wind tunnel.	Analyze
				C410.5	Analyze the overall efficiency of axial flow fan & Centrifugal blower	Analyze
				C410.6	Evaluate the surface emissivity of a test plate & Stefan Boltzmann constant	Evaluate
8	PC752ME	CAE Lab	Dr.Md. Fakhruddin N. / Mr. Kamal Kumar Ojha	C411.1	Analyse 2D, 3D truss to determine stress and strain in mechanical member.	Analyze
				C411.2	Measure internal Pressure in case of Curved shell.	Evaluate
				C411.3	Measure buckling & natural frequencies and mode shapes of Cantilever Beam.	Evaluate
				C411.4	Analyse static stress analysis in case of plate with a hole .	Analyze
				C411.5	Analyse two dimensional heat conduction in case of a plate .	Analyze
				C411.6	Evaluate Heat Conduction in case of composite wall.	Analyze



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9	SI 671ME	Summer Internship		C412.1	Explain and identify various materials, processes, products and their applications and limitations.	Understand
				C412.2	Apply the fundamental and advanced Technical / Engineering knowledge in real industrial situations.	Apply
				C412.3	Explain the importance and learn through experience professional ethics, communication and adaptability skills to work in teams to solve real life problems.	Evaluate
				C412.4	Explain the social, economic and administrative considerations that influence the working environment of industrial organizations.	Evaluate
				C412.5	Explain and sharpen the real time technical / managerial skills required to meet the industry needs.	Understand
				C412.6	Compile the information and knowledge gained from the internship and present a written document.	Create
10	PW761ME	Project Work - I		C413.1	Adapt the attitude of writing reviews on the literature	Create
				C413.2	Develop practical & professional skills	Apply
				C413.3	Apply the tools and technicals of documentations	Apply
				C413.4	Make use of the Team work	Apply
				C413.5	Develop to the industrial practice and Research Practices	Apply
				C413.6	Develop skill to work with Innovative and entrepreneurial ideas	Apply


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DEPARTMENT OF MECHANICAL ENGINEERING

BE Odd Sem (2020-2021)

CO-PO Mapping Summary Sheet

III Sem

S No	Course Codes	CO No.	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
1	BS205MT	C201	3.0	2.8	2.0	-	2.0	-	-	1.0	1.0	1.0	-	-	-	-	-
2	ES211ME	C202	2.8	2.2	2.0	3.0	1.0	-	-	1.0	1.0	1.0	-	-	3.0	-	-
3	ES214EC	C203	2.8	2.7	1.7	1.7	1.0	-	-	-	1.0	-	-	-	2.8	2.0	-
4	HS201EG	C204	-	2.0	2.0	1.6	2.0	2.5	1.7	3.0	3.0	3.0	1.0	3.0	-	-	-
5	HS202CM	C205	-	2.7	-	-	-	-	-	-	-	-	2.5	-	-	-	-
6	PC221ME	C206	3.0	1.5	-	2.0	1.0	-	-	1.0	1.0	1.0	-	1.0	-	1.3	-
7	PC222ME	C208	2.8	2.6	2.5	2.3	-	-	-	1.0	1.0	1.0	-	-	-	-	3.0
8	PC251ME	C209	3.0	3.0	1.8	2.7	1.5	-	-	1.0	1.0	1.0	-	1.0	1.0	1.0	-
9	PC252ME	C210	3.0	2.2	-	-	2.7	-	-	2.0	2.3	-	2.0	2.0	3.0	-	2.0

V Sem

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1	PC 501 ME	C301	3.0	2.8	2.5	-	-	-	-	-	1.0	-	-	-	-	-	3.0
2	PC 502 ME	C302	3.0	3.0	2.5	2.5	2.3	2.5	-	-	3.0	3.0	-	-	3.0	3.0	3.0
3	PC 503 ME	C303	3.0	2.8	1.7	2.7	1.7	2.7	-	1.0	2.0	2.0	1.5	2.0	3.0	-	-
4	PC 504 ME	C304	3.0	2.0	2.0	2.0	1.0	-	-	-	1.0	1.0	-	-	-	2.7	-
5	PC 505 ME	C305	3.0	2.3	2.0	2.3	1.0	-	-	1.0	1.0	1.0	-	1.0	-	-	3.0
6	PC 591 ME	C306	3.0	3.0	3.0	3.0	-	1.0	-	-	-	-	2.0	-	-	-	3.0
7	PC 592 ME	C307	2.8	2.8	-	2.8	2.5	-	-	2.8	3.0	3.0	-	-	3.0	-	-
8	PC 593 ME	C308	3.0	2.2	2.0	1.0	1.0	-	-	1.0	1.0	1.0	-	1.0	-	-	3.0

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1	PC701ME	C401	3.0	3.0	3.0	-	3.0	-	-	1.0	1.0	1.0	-	-	3.0	3.0	3.0
2	PC702ME	C402	3.0	3.0	-	-	2.3	-	-	1.0	1.0	1.0	-	-	3.0	3.0	3.0
3	PC703ME	C403	2.8	3.0	3.0	2.0	1.0	-	-	1.0	1.0	1.0	-	-	-	1.3	-
4	PC704ME	C404	3.0	2.5	-	2.0	1.8	-	-	1.0	1.4	-	3.0	-	2.2	2.0	-
5	OE773EC	C405	2.8	2.0	1.3	1.8	1.2	1.8	1.7	1.5	1.2	1.5	2.3	1.5	2.0	1.0	-
6	OE781CE	C406	3.0	2.0	1.0	2.0	-	1.8	1.0	-	-	-	-	-	-	-	-
7	OE 771 CE	C407	3.0	2.0	1.0	1.0	1.0	2.0	3.0	1.0	1.0	1.0	-	-	-	-	-
8	OE784EE	C408	3.0	1.8	1.8	1.0	2.0	-	-	-	1.0	1.0	-	-	-	-	-
9	HS901MB	C409	-	2.3	-	-	-	-	-	-	-	-	3.0	-	-	-	-
10	PC751ME	C410	3.0	3.0	3.0	3.0	-	1.0	-	-	-	-	2.0	-	-	-	3.0
8	PC752ME	C411	3.0	2.3	2.0	2.3	1.0	-	-	1.0	1.0	1.0	-	1.0	-	-	3.0
9	SI 671ME	C412	2.7	2.0	2.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0	2.6	3.0	3.0	3.0	3.0
10	PW761ME	C413	3.0	-	-	-	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0

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