UNIVERSITY OF MUMBAI
No. UG/406 of 2009

CIRCULAR: -

A reference is invited to the Ordinances, Regulations and syllabi relating to the Bachelor of Engineering degree course **vide** this office circular No.UG/322 of 2009 dated, 21st August, 2009 and the Principals of the affiliated colleges in Engineering are hereby informed that the recommendations made by the Faculty of Technology at its meeting held on 1st April, 2009 has been accepted by the Academic Council at its meeting held on 17th September, 2009 **vide** item No.4.6 and that, in accordance therewith, the student of the B.E. degree course (Sem. VII) in various branches of Computer Engineering, Electronics Engineering, Chemical Engineering and Information Technology (under old course) (1994-95 onwards) is allowed to appear for their examinations in the equivalent subjects under the revised syllabi of the B.E. degree course (brought into force with effect from the academic year 2001-2002).

Their equivalent subjects are as under:-

Mechanical Engineering (Sem. VII)

	Old Course Subject (1994-1995)	Equivalent Subjects from Revised Course (R-2001-2002)
1.	Machine Design-I	Design of Machine Elements-II(Sem-VII)
2.	Thermal Engineering	Thermal Engineering (Sem-IV)
3.	Production Planning and Control	Manufacturing Planning and Control (Sem-VII)
4.	Industrial Engineering and Management	Industrial Engineering and Enterprises resource Planning (Sem-VIII)
	Electives :- i. Machine Tool Design and Control-I	*No Equivalence
	ii. Advanced Vibration	*No Equivalence
	iii. Mechatronics-I	Mechatronics-Sem.VI
	iv. Finite Elements Method	Advanced F.E.A. (Sem.VII)
	v. Design for production	Concurrent Design of Products and Processes Sem(VII)
	vi. Total quality Management	Business Process re-engineering (Sem.VII)
	vii. Mechanical Metallurgy	Material Technology (Sem.IV)
	viii. Power Plant Engineering	Power Plant Engineering Sem.VI

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	ix. Automobile System-I	Automobile Engineering-I (Sem. VII)
	x. Cryogenic Engineering.	Cryogenic Engineering (Sem. VII)
	xi. Elements of Fluid Drives & Control	*No Equivalence
5.	Project	Project (Sem. VII)

*** No equivalence :- Student has to appear for the subject in the Old Course (R.94) only.**

Electronics & Telecommunication Engg.(Sem.VII)

	Old Course Subject (1994-1995)	Equivalent Subjects from Revised Course (R-2001-2002)
1	Optical Fibre Communication	Optical Fibre Communication (Sem-VII)
2.	Microwave-I	Microwave Devices & Circuits (Sem-VII)
3.	Electronic Instrumentation	Electronic Instrumentation (Sem-VI)
4.	Digital Communication	Digital Communication (Sem-VII)
5.	Digital Signal Processing	Discrete time Signal Processing (Sem-VII)
6.	Project-I	Project

Automobile Engineering (Sem.VII)

	Old Course Subject (1994-1995)	Equivalent Subjects from Revised Course (R-2001-2002)
1.	Automobile Power Unit.	*No Equivalence
2.	Vehicle System	Vehicle Systems (Sem. VI)
3.	Vehicle Dynamics	Vehicle Dynamics (Sem. VIII)
4.	Vehicle Design-I	Vehicle Design (Sem. VIII)

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5.	Elective-I i. Mobile lifting Devices ii. Automobile Pollution iii. Automobile Electricals & Electronics iv. Industrial Engg. and Management v. Advanced Vibrations vi. Finite Element Methods	 *No Equivalence Automobile Pollution (Sem.VII) Autotronics (Sem.VIII) Industrial Engg. and Enterprise resource planning (Sem.VIII) *No Equivalence Advanced finite element Analysis
6.	Project	Project

*** No equivalence :- Student has to appear for the subject in the Old Course (R.94) only.**

Production Engineering (Sem-VII)

	Old Course Subject (1994-1995)	Equivalent Subjects from Revised Course (R-2001-2002)
1.	Industrial Training and Project	Industrial Training and Project

Civil Engineering(Sem.-VII)

	Old Course Subject (1994-1995)	Equivalent Subjects from Revised Course (R-2001-2002)
1.	Theory of Reinforce Concrete & Prestressed Concrete	Theory of Reinforce Concrete & Prestressed Concrete
2.	Environmental Engineering	Environmental Engineering
3.	Irrigation Engineering	Irrigation Engineering
4.	Quantity Surveying Estimation & Valuation	Quantity Surveying Estimation & Valuation

5.	Elective: i. Traffic Engineering & Control ii. Applied Hydrology & Flood Control iii. Engineering Economics iv. Air Pollution v Solid Waste Management vi. Advanced Foundation Engineering. vii Advanced Structural Analysis viii Advanced Structural Mechanics	Elective: i. *No Equivalence ii. Applied Hydrology & Flood Control iii. Appraisal & Implementation of Infrastructure Projects iv. Air Pollution v Solid Waste Management vi. Advanced Foundation Engineering. vii Advanced Structural Analysis viii Advanced Structural Mechanics

*** No equivalence :- Student has to appear for the subject in the Old Cour (R.94) only.**

Construction Engineering (Sem. VII)

	Old Course Subject (1994-1995)	Equivalent Subjects from Revised Course (R-2001-2002)
1.	Theory of Concrete Structures	Theory of Concrete Structures
2.	Construction Project Management-I	Construction Project Management-I
3.	Irrigation Engineering	Irrigation Engineering
4.	Quantity Surveying, Estimating & Valuation	Quantity Surveying, Estimating (Sem VIII)
5.	Administration of Construction Contracts.	Administration of Construction Contracts.

Electrical Engineering (Sem.VII)

Old Course Subject (1994-1995)		Equivalent Subjects from Revised Course (R-2001-2002)
Introduction to System Design		Communication Engineering-I (Sem-IV)
Electrical Drives & Control		Drives & Control (Sem-VIII)
Basics of Analog & Digital Communications		Communication Engineering-II (Sem-VII)
Microprocessor & Applications		Microprocessors & Systems (Sem-VI)
Elective I	Advanced Control System	Control System II (Sem-VII)
	Computer Applications In Power	Computer Aided Power System Analysis (Sem-VII)
	Designing with Integrated Circuits	Analysis & Design of Switched Mode Converters (Sem-VII)
	Illumination Engineering	Illumination Engineering (Sem-VIII)
	Computer Organization	Computer Aided Power System Analysis (Sem-VII)

Instrumentation Engineering (Sem.VII)

Old Course Subject (1994-1995)	Equivalent Subjects from Revised Course (R-2001-2002)
Digital Signal Processing	Digital Signal Processing (Sem-VII)
Process Instrumentation-II	Industrial Process Control (Sem-VII)
Adaptive Control System	Advanced Control Systems (Sem-VII)
Opto Electronic Techniques	Robotics (Sem-VII)
Biomedical Instrumentation	Biomedical Instrumentation (Sem-VII)

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Computer Engineering Sem:VII

	Old Course Subject (1994-1995)	Equivalent Subjects from Revised Course (R-2001-2002)
1.	Structured System Analysis & Design	Software Engineering (Sem -VII)
2.	Microprocessors-III	Intelligent Systems (Sem-VII)
3.	TCS	TCS (Sem-V)
4.	Data Communication	Computer NIW (Sem-VI)
5.	Digital Signal Processing	Digital Signal Processing (Sem-VII)
6.	Project –I	Project-A

Electronics Engineering Sem:VII

	Old Course Subject (1994-1995)	Equivalent Subjects from Revised Course (R-2001-2002)
1.	Microwave & optical communication	Microwave & Fiber Optic Communication (Sem -VI)
2.	Microprocessors-III	Computer Organisation (Sem VI)
3.	Electronic Instrumentation	Electronics Instrumentation (Sem VII)
4.	Digital Communication	Digital Communication (Sem-VII)
5.	Introduction to System Design	Basics of VLSI (Sem VII)
6.	Project –I	Project-A (Sem VII)

Chemical Engineering-Sem. VII

	Old Course Subject (1994-1995)	Equivalent Subjects from Revised Course (R-2001-2002)
1.	Reaction Kinetics	Reaction Kinetics (Sem-VI)
2.	Instrumentations & Process Control	Instrumentations & Process Control (Sem-VII)
3.	Process Simulation Optimization/Scale up	Process Simulation & Design (Sem-VIII)
4.	Chemical Processes-I	Chemical Processes-I (Sem-VI)
5.	Elective –II 5.1 Biochemical Engineering 5.2 Plant Safety 5.3 Polymer Engineering	 Biochemical Engineering (Sem-VII) Industrial Safety (Sem-VIII) Polymer Engineering (Sem-VII)
6	Project	Project-A (Sem-VII)

Information Technology- Sem. VII

	Old Course Subject (1994-1995)	Equivalent Subjects from Revised Course (R-2001-2002)
1.	Structured Systems Analysis & Design	Object Oriented Analysis & Design (Sem-VI)
2.	Digital Imaging & Image Processing	Image processing
3.	Simulation and Modeling	Computer simulation and modeling
4.	Computer Communications & Network	Mobile computing
5.	Distributed Systems	Advanced Computer networks (Elective I)
6.	Project – I	Project-A

MUMBAI-400 032
3rd November, 2009

PRIN. K. VENKATARAMANI
REGISTRAR

To,

The Principals of the affiliated colleges in Engineering.

A.C./4.6/17/09/2009

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No. UG/406-A of 2009, MUMBAI-400 032 3rd November, 2009

Copy forwarded with compliments for information to :-

1) The Dean, Faculty of Technology.
2) The Chairmen of the various Boards of the Studies and Ad-hoc Board of Studies in Engineering .
3) The Controller of Examinations.
4) The Co-ordinator, University Computerization Center.

03/11/09

(D. H. KATE)
DEPUTY REGISTRAR
(U.G./P.G. Section)

3/11

Copy to :-

The Director, Board of College and University Development, the Deputy Registrar (Eligibility and Migration Section), the Director of Students Welfare, the Personal Assistants to the Vice-Chancellar, the Pro-Vice-Chancellor, the Registrar and the Assistant Registrar, Administrative, Ratnagiri for information.

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