गुरू घासीदास विश्वविद्यालय (केदीय विश्वविद्यालय अधिन्यम 2009 ज्ञ. 25 के अंतर्गत खामित केदीय विश्वविद्यालय) कोनी, बिलासपुर - 495009 (छ.ग.)

CH4THS05

03.



Guru Ghasidas Vishwavidyalaya (A Central University Established by the Central Universities Act 2009 No. 25 of 2009) Koni, Bilaspur – 495009 (C.G.)

List of New Course(s) Introduced

Depar	rtment	: Chemical Engineering
Progr	amme Name	: B.Tech.
		Academic Year : <mark>2016-17</mark>
List of New Course(s) Introduced		
		5) 1111 044004
Sr. No.		Name of the Course

Business Communication and Presentation Skill

New Course Introduced

Criteria – I (1.2.1)

गुरू घासीदास विश्वविद्यालय केन्द्रीय विश्वविद्यालय अधिनियम 2009 क्र. 25 के अंतर्गत स्थापित केन्द्रीय विश्वविद्यालय) कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya (A Central University Established by the Central Universities Act 2009 No. 25 of 2009) Koni, Bilaspur – 495009 (C.G.)

Minutes of Meetings (MoM) of Board of Studies (BoS)

Academic Year : 2016-17

School : School of Studies of Engineering and Technology

Department : Chemical Engineering

Date and Time : May 24, 2016 - 11:30 AM

Venue : HOD Office

Minutes of Meeting of Board of Studies, Chemical Engineering held on 24,06,2016

As per the due approval of the Registrar/Vice-Chancellor the meeting of the Board of Studies, Chemical Engineering has been held on 24.06.2016 in the office of the HoD-cum Chairman. The following persons were present in the mosting.

- 1 Prof. S.N. Saha, HoD. Chem Engg. Chairman S. Balla 24/6/16 Hoder (1) 2. Dr. Anii Kumar Chandrakar, Assit Prof. Chem. Engg. Member
- 4
- 1. Dr. Sundip Singh, Assit. Prof., Pure & Applied Mathematics Spl. Invited Member- Specialite Dr. S. Kispotta, Assu. Prof., Economics Spl Invited Member 982 5574116
- Dr.(Mrs.) S. Y. Khun, Asstt. Prof., English & Foreign Language Spl. Invited Member Stilling 6. Sh. Neeraj Chaudrakar, Assit Pref., Chemical Engg-Ch.F. Dept. Faculty Member 7. Dr. Raghawendra Singh Thakur, Asstr Prof., Chem. Engg. - Ch.F. Depi, Faculty Member de alfal in

Producter) Coundan Guha, HoD, Ch.E., Judaypur University External Member of RoS expressed It's inavity to altend this meeting anavoidably. During the meeting proceeding itself Prof. C. Guha was briefest telephonically, the decisions of this meeting and agreed on the unanimous decisions and he will send putting his signature on the resolutions.

Following resolutions were taken

- 1 Keeping in view the CBCS, the syllabil of the subjects of filled and flyth Semester have been studied by all the members and approved. 2 it was resolved for approval of the M.Tech. admission for the non-GATE qualified B.Tech. I

class students on merit basis on the vacant seats which may remain after All India basis Central Counseling. The GATE qualified admitted candidates for M.Tech. would get the usual scholarships from AICTE. The Non GATE qualified students admitted by merit in M. Tech. won't be offered any AICTE scholarship, as it is being followed in other NITs. It is recommended for implementation of M.Tech. admission for Non-GATE qualified students also with the preference to be given to GATE qualified, from the coming session itself

Agound Accepted

Dr. Chandan Guha Professor & Head Chemical Engineering Dept. Jadavpur University, Kolkala

New Course Introduced

Criteria – I (1.2.1)

गुरू घासीदास विश्वविद्यालय (केन्रीय विश्वविद्यालय अधिनेयम 2009 क. 25 के अंतर्गत स्थापित केन्द्रीय विश्वविद्यालय) कोनी, बिलासपुर - 495009 (छ.ग.)



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The following courses were revised in the of B. Tech. Second year (III and IV Semesters) :

Numerical Analysis & Computer Applications (CH4TBS06)

The following new courses were introduced in the of B. Tech. Second year (III and IV Semesters):

- Engineering Economics (CH3THS03)
- Fundamentals of Chemical Engineering (CH3TPC01)
- Business Communication and Presentation Skill (CH4THS05)

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विभागाध्यक्ष, रासायनिक अभियांत्रिकी HoD, Chemical Engineering प्रौद्योगिकी संस्थान/Institute of Technology गुरू घासीदास विश्वविद्यालय, बिलासपुर (छ.ग.) Guru Ghasidas Vishwavidvalava, Bilaspur (C.G.)

Signature & Seal of HoD

Criteria - I (1.2.1)

गुरू घासीदास विश्वविद्यालय (केन्द्रीय विश्वविद्यालय अधिनियम 2009 क्र. 25 के अंतर्गत स्थापित केन्द्रीय विश्वविद्यालय) कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya (A Central University Established by the Central Universities Act 2009 No. 25 of 2009) Koni, Bilaspur - 495009 (C.G.)

Scheme and Syllabus

INSTITUTE OF TECHNOLOGY GURI GHASIDAS VISHWAVIDVALAVA, BILASPUR (C.G.) (A Central Univer-Established by the Central University Ordinance 2000 No. 3 of 20091 SCHEME FOR EXAMINATION B.Tech. (FOUR YEAR) DEGREE COURSE, CHEMICAL ENGINEERING SECOND YEAR, THIRD SEMESTER Periods Course No. **Evaluation** Scheme Subject No L T P Sessional Exam IA MSE Tetal ESE Sub Credits THEORY Total CH3THS03 0 0 40 100 CH3TPC01 40 CH3TES05 Fluid Mechanics 20 40 60 100 2 CH3TBS05 | Engineering Mathematics-III 3 20 20 40 60 100 a CH3TES06 Chemical Engineering Thermodynamics-I 0 -3 20 20 40 60 100 3 CH3TPC02 Chemical Engineering Calculation 3 0 -20 20 40 100 60 PRACTICAL CH3PPC01 Chemical Engineering Lab - - 3 30 30 50 2 20 02 CH3PES05 Fluid Mechanics Lab - 3 30 30 20 50 TOTAL 18 2 6 700 24 IA - Internal Assessment MSE - Mid Semester Examination ESE - End Semester Examination Total Periods - 26 Total Maria 700 Total Credits - 24 - Sake Dr. Chanden Gona Shates in the second Profession A risk. Cinemical English Jadavpur Unix (1/29/6114 CRATHE STREE Jujechie INSTITUTE OF TECHNOLOGY GURU GHASIDAS VISHWAVIDVALAVA, BILASPUR (C.G.) sity Ordinance 2009, No. 3 of 20091 SCHEME FOR EXAMINATION B.Tech, (FOUR YEAR) DEGREE COURSE, CHEMICAL ENGINEERING SECOND YEAR, FOURTH SEMESTER Evaluation Scheme Sub Credits
 Periods
 Evaluation Scheme

 L
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 Total
 Course No. 15 Subject No. THEORY CH4THS05 Skill 40 60 20 20 100 20 CH4TBS06 20 40 03. CH4TPC02 Chemical Engineering Thermodynamics -II 20 20 40 60 CH4TPC03 Inorganic Chemical Technology 20 20 40 60 100 CH4TPC04 Mechanical Operations 20 20 40 60 100 CH4TPC05 Process Instrumentation 06. 20 20 40 60 100

New Course Introduced

PRACTICAL CH4PBS03 Num Lab

Total Marks - 700

CH4PPC02 Mechanical Operation Lab

Numerical Analysis & Computer Applications

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TOTAL

- . - 3 30

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MSE - Mid Semester Examination

- 3 30

NC LOG

Criteria – I (1.2.1)

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Total Credits - 24

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FSF - End Semester Examination

गुरू घासीदास विश्वविद्यालय (केन्रीय विश्वविद्यालय) कोनी, बिलासपुर - 495009 (छ.ग.)



New Course Introduced

Guru Ghasidas Vishwavidyalaya (A Central University Established by the Central Universities Act 2009 No. 25 of 2009) Koni, Bilaspur - 495009 (C.G.)

B. Tech. III Semester

CH3THS03: Engineering Economics (300)

Unit 1: Basic Concepts and Definitions, Methodology of Studying Economics, Demand and Supply - elasticity, Theory of the Firm and Market Structure. Price and output determinations in different types of market

Unit 2: Public Sector Economics - Welfare Economics, Central and Commercial Banks and their functions, Industrial policies, theory of localization. Weber & Surgent Florence theory, aivestment analysis NPV, ROI, IRR, Payback period, SWOT analysis

Unit 3: Monetary and Fiscal Policy; impact on the economy, Inflation, Business Cycle, Cash (income) Flow-2,3,4 Model.

Unit 4: Business Forecasting - Elementary techniques. Cost and Revenue Analysis, Break Even

Unit5: Indian Economy; Urbanization, Migration, Unemployment-Poverty, Regional Disparities, Unorganized Sectors- Role of Plans, Reforms-Post Independent period.

Text Books:

1. Mankiw Gregory N (2002), Principles of Economics, Thompson Asia

2 V. Mote, S. Paul, G. Gupta(2004), Managerial Economics, Fata McGraw Hill

3. Misra, S.K. and Puri (2009), Indian Economy, Himalaya

4. PareekSaroj (2003), Textbook of Business Economics, Sunrise Publishers

Refrence Books:

Kapila U. Indian economy since Independence. Academic Foundation, New Delhi
Misra, S. K. and Puri V. K. Indian Economy — Its Development Experience. Himalaya
Publishing House, Mumbai

4.Dutt R. and Sundharam K. P. M. Indian Economy. S. Chand & Company Ltd., New Delhi, 5.Mathur R. Indian Economic Policy and Reform. RBSA Publisher, Jaipur

6 Jalan B. Indian Economic Policy, Penguin Books Ltd

7. Government of India, Economic Survey (Annual), Economic Division, Ministry of Finance, 18,000

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New Course Introduced

CH3TPC01: Fundamentals of Chemical Engineering (300)

Introduction: Units and dimensions, basic laws, unit operations and unit processes: Physico-chemical calculations: Material and energy balance for different unit operations and unit processes.; Fluid flow and flow measurement: Nature of floid, viscosity, friction factor, flow through porous media, fluidization, flow measuring devices: Heat transfer: Modes of heat transfer, calculation of heat transfer coefficient, heat exchangers and evaporators.; Mass transfer: Transfer mechanism, mass transfer coefficient, introduction to mass transfer operations viz, gas absorption, distillation, leaching and drying, stage and continuous contactors.; Chemical kinetics: Rate equation, catalysis, type of reactors: Chemical process instrumentation: Elements of instruments, static and dynamic characteristics, dynamic response of process instruments, recording, indicating and signaling instruments.; Pollution from chemical industries and its abatement: Solid, liquid and gaseous effluents from chemical industries and their abatement.

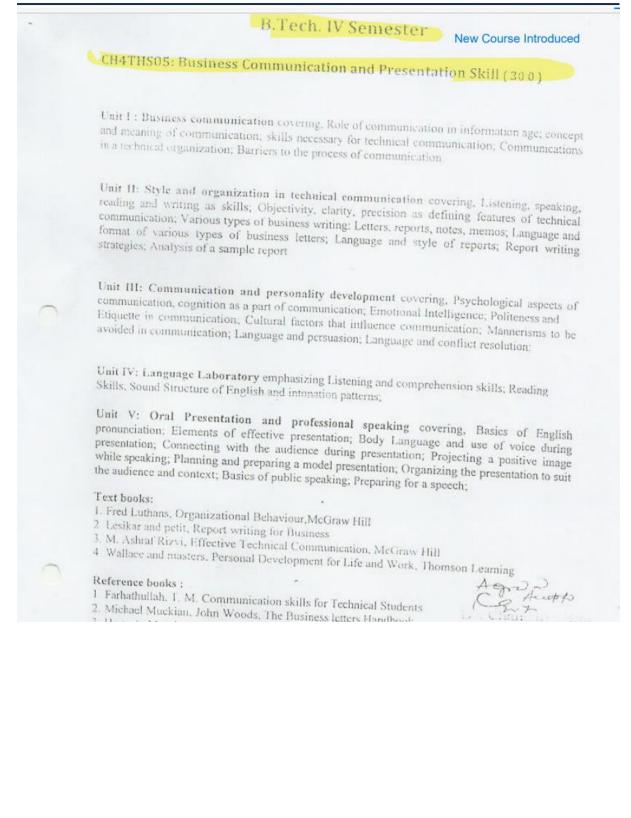
Text / References :

- W. L. McCabe, J. C. Smith and P. Harriott, Unit Operations of chemical Engineering, McGraw-Hill, Inc., Sixth Edition, 2005
- J. M. Coulson, J. F. Richardson, J. R. Backhurst and J. H. Harker, Chemical Engineering, Vol. 1 and 2, Pergamon Press, Fourth Edition, 1990.
- G. T. Austin, Shreve's Chemical Process Industries, McGraw Hill Book Co., Fifth Edition, (Latest)

गुरू घासीदास विश्वविद्यालय (केन्रीय विश्वविद्यात्य अधिनियम 2008 ज्ञ. 25 के अंतर्गत रचापित केन्न्रीय विश्वविद्यात्य) कोनी, बिलासपर - 495009 (छ.ग.)



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Criteria - I (1.2.1)