

Netaji Subhash Engineering College

Online Unit Test (OUT), MAY 2020

Name of the Department: Department of Mechanical Engineering

Year: II year

Course Name: Materials Engineering

Course Code: ES ME 401

Exam Date: 18/05/2020 Exam Time: 10:00 AM to 11:00 AM Exam Duration: 60 Minutes

Exam Mode: Google Form

Syllabus of the Course for this OUT: Iron Carbon Diagram, TTT & CCT Diagram, Heat Treatment & Ferrous Alloys.

% of Completion of total Syllabus: 95%

Netaji Subhash Engineering College

Online Unit Test (OUT), MAY 2020

Name of the Department: Department of Mechanical Engineering

Year: II Year

Course Name: Metrology & Instrument

Course Code: PC ME404

Exam Date: 20/05/2020

Exam Time: 11:20 AM to 11:50 AM

Exam Duration: 30 Minutes

Exam Mode: Google Form

Syllabus of the Course for this OUT: Introduction to digital instrumentation, Classification of Transducers, Digital transducers and Static & Dynamic characteristic of Instruments.

% of Completion of total Syllabus: 100%

Netaji Subhash Engineering College

Online Unit Test (OUT), MAY 2020

Name of the Department: Department of Mechanical Engineering

Year: III Year

Course Name: Mechatronics

Course Code: ME604B

Exam Date: 20/05/2020

Exam Time: 12:05 PM to 1:35 PM

Exam Duration: 90 Minutes

Exam Mode: Google Form

Syllabus of the Course for this OUT: Basic Electronics, Mathematical Modeling, Valves, and Actuators.

% of Completion of total Syllabus: 98%

Netaji Subhash Engineering College

Online Unit Test (OUT), MAY 2020

Name of the Department: Department of Mechanical Engineering

Year: IV Year

Course Name: Quality and Reliability Engineering

Course Code: ME 802D

Exam Date: 19/05/2020

Exam Time: 8:00 PM to 8:50 PM

Exam Duration: 50 Minutes

Exam Mode: Google Form

Syllabus of the Course for this OUT: MTTF, MTBF, MDT, Bath Tub curve, linear and non linear hazard models and weibull distribution.

% of Completion of total Syllabus: 95%

Netaji Subhash Engineering College

Online Unit Test (OUT), MAY 2020

Name of the Department: Mechanical Engineering

Year: 2nd Year Sec B

Course Name: Materials Engineering

Course Code: ES-ME 401

Exam Date: 18.05.2020

Exam Time: 10-11 AM

Exam Duration: 60 minutes

Exam Mode: Google Form /GATetutor / Other (Please mention): Google Docs

Syllabus of the Course for this OUT:

1. Module 1 (Crystal Structure, Imperfections in Solids).
2. Module 4 (Alloys, substitutional and interstitial solid solutions- Phase Diagrams, Iron-Iron carbide phase diagram).
3. Module 5 (Heat treatment of steel, Continuous cooling curves and interpretation of final microstructures and properties).

% of Completion of total Syllabus: 100%

[Repeat for all courses for a particular year and then for all year]

Please email the compiled data of your Department by May 15, 2020 (5PM) to Prof. IndranilGhosh (indranil74@rediffmail.com) and CC to pspal@nsec.ac.in

Netaji Subhash Engineering College

Online Unit Test (OUT), MAY 2020

Name of the Department: **Mechanical Engineering**

Year: **2nd Year**

Course Name: **Applied Thermodynamics**

Course Code: **PC ME401**

Exam Date: **18.05.2020** Exam Time: **2.55PM to 3.35PM** Exam Duration: **40min**

Exam Mode: Google Form / GATetutor / Other (Please mention): **Google Form**

Syllabus of the Course for this OUT: **Module 2,5,6**

% of Completion of total Syllabus: **90%**

Name of the Department: **Mechanical Engineering**

Year: **3rd Year**

Course Name: **IC engine and Gas turbine**

Course Code: **ME601**

Exam Date: **18.05.2020** Exam Time: **3.30PM to 5.10PM** Exam Duration: **100min**

Exam Mode: Google Form / GATetutor / Other (Please mention): **Google Form**

Syllabus of the Course for this OUT: **All Modules**

% of Completion of total Syllabus: **100%**

Name of the Department: **Mechanical Engineering**

Year: **4th Year**

Course Name: **Automobile Engineering**

Course Code: **ME803D**

Exam Date: **20.05.2020** Exam Time: **6PM to 6.50PM** Exam Duration: **50min**

Exam Mode: Google Form / GATetutor / Other (Please mention): **Google Form**

Syllabus of the Course for this OUT: **Module 2,3,9,10**

% of Completion of total Syllabus: **100%**

[Repeat for all courses for a particular year and then for all year]

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Netaji Subhash Engineering College

Online Unit Test (OUT), MAY 2020

Name of the Department: Mechanical Engineering
Year: 2020
Course Code: PC-ME 401
Course name: Applied Thermodynamics
Exam Date: 18.05.2020 Exam Time: 13:30 hours to 14:30 hours
Exam Duration: 1 hour
Exam Mode: Google Form
Syllabus of the Course for this OUT: [1] Module 1 [2] Module 2
% of Completion of total Syllabus: 90%

Netaji Subhash Engineering College

Online Unit Test (OUT), MAY 2020

Name of the Department: Mechanical Engineering

Year: 2020

Course Name: Fluid Mechanics & Fluid Machines

Course Code: PC-ME 402

Exam Date: 19.05.2020 Exam Time: 11:10 AM to 11:50 AM Exam Duration: 40 minutes

Exam Mode: Google Form / GATetutor / Other (Please mention): Google Docs

Syllabus of the Course for this OUT:

[1] Pelton wheel/turbine

[2] Francis turbine

[3] Kaplan Turbine

[4] Centrifugal pump

% of Completion of total Syllabus: 100%

Name of the Department: Mechanical Engineering

Year: 2nd

Course Name: Strength Of Materials

Course Code: PC-ME 403

Exam Date: 19.05.2020 Exam Time: 1-45 PM Exam Duration: 1 hour

Exam Mode: Google Form

Syllabus of the Course for this OUT: Shear force and bending moment, bending stress in beams, shear stress in beams, slope and deflection of beams, thin and thick cylinders, thin and thick spherical shell.

% Completion of total Syllabus: 100%

Netaji Subhash Engineering College

Online Unit Test (OUT), MAY 2020

Name of the Department: Mechanical

Year: 2019-20

Course Name: Machine Design

Course Code: ME 603

Exam Date: 19/05/2020

Exam Time: 1 Hour

Exam Duration: 3:30PM to 4:30PM

Exam Mode: Google Form and individual Google drive/ Google classroom

Syllabus of the Course for this OUT: Gears Design- Spur Gear, Helical gear, bevel gear and worm gear, Pressure vessels, Sliding contact bearings

% of Completion of total Syllabus: 100% from my part

Name of the Department: Mechanical

Year: 2019-20

Course Name: Strength of Materials

Course Code: PC-ME 403

Exam Date: 19/05/2020

Exam Time: 1 Hour

Exam Duration: 1:45PM to 2:45PM

Exam Mode: Google Form and individual Google drive/ Google classroom

Syllabus of the Course for this OUT: Beams and types transverse loading on beams- shear force and bend moment diagrams. Types of beam supports, simply supported, over-hanging beams and cantilevers. Theory of bending of beams, bending stress distribution and neutral axis, shear stress distribution, point and distributed loads. Moment of inertia about an axis and polar moment of inertia, deflection of a beam using double integration method, computation of slopes and deflection in beams, tresses and deflection of helical springs. Axial and hoop stresses in cylinders subjected to internal pressure, deformation of thick and thin cylinders, deformation in spherical shells subjected to internal pressure

% of Completion of total Syllabus: 100% from my part

[Repeat for all courses for a particular year and then for all year]

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NetajiSubhash Engineering College

Online Unit Test (OUT), MAY 2020

Name of the Department: MECHANICAL ENGINEERING

Year: 2ND

Course Name: METROLOGY & INSTRUMENTATION

Course Code: PC-ME 404

Exam Date: 20/05/2020 WEDNESDAY Exam Time: 10 AM to 11:10 AM

Exam Duration: 10 AM to 11:10 AM

Exam Mode: Google Form / GATetutor / Other (Please mention): Google Form

Syllabus of the Course for this UT:

MODULE: 1, 2 and 3

% of Completion of total Syllabus: 100%

[Repeat for all courses for a particular year and then for all year]

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Netaji Subhash Engineering College

Online Unit Test (OUT), MAY 2020

Name of the Department: Mechanical Engineering

Year: 2nd Year Sec A

Course Name: Metrology and Instrumentation

Course Code: PC-ME 404

Exam Date: 20.05.2020

Exam Time: 10-11.10 AM

Exam Duration: 70 minutes

Exam Mode: Google Form /GATetutor / Other (Please mention): Google Docs

Syllabus of the Course for this OUT:

1. Module 1 (Concept of Measurement, Basic Standards of Length, Linear Measurement, Comparators, Angular Measurement).
2. Module 2 (Limits and Limit Gauges).
3. Module 3 (Screw Thread Measurement, Measurement of Surface Texture).

% of Completion of total Syllabus: 86%

[Repeat for all courses for a particular year and then for all year]

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Netaji Subhash Engineering College

Online Unit Test (OUT), MAY 2020

Name of the Department: Mechanical engineering

Year: 2nd

Course Name: Strength of Materials

Course Code: PC ME 403

Exam Date: 19/05/2020 Exam Time: 2:55pm – 3:35pm Exam Duration: 30mins

Exam Mode: Google Form / GATetutor / Other (Please mention): Google form

Syllabus of the Course for this OUT: Simple stress and strain, Compound Stress and Strains. Torsion of Shafts

% of Completion of total Syllabus: 90%

[Repeat for all courses for a particular year and then for all year]

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Netaji Subhash Engineering College

Online Unit Test (OUT), MAY 2020

Name of the Department: Mechanical engineering

Year: 3rd

Course Name: IC Engine and Gas turbines

Course Code: ME 601

Exam Date: 18/05/2020 Exam Time: 3:30pm – 4:20pm Exam Duration: 30mins

Exam Mode: Google Form / GATetutor / Other (Please mention): Google form

Syllabus of the Course for this OUT: Air standard cycles, actual cycles, Fuels, Carburetion, Fuel Injection Systems, Ignition Systems, Combustion, Performance of IC Engine.

% of Completion of total Syllabus: 85%

[Repeat for all courses for a particular year and then for all year]

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NetajiSubhash Engineering College

Online Unit Test (OUT), MAY 2020

Name of the Department: Mechanical Engineering

Year: 3rd Year

Course Name: Machining Principles & Machine Tools

Course Code: ME602

Exam Date:19/05/2020 Exam Time: 12:05 pm-1:45 pm Exam Duration: 1 hr 40 mins

Exam Mode: Google Form /GATetutor / Other (Please mention): Google Form

Syllabus of the Course for this OUT:

Mechanics of machining, Cutting tools-failure, life and materials: Broaching and grinding, Machinability and machining economics, Control of speed and feed machine tools , Machining time , Computer numerical controlled machine tools

% of Completion of total Syllabus: 100%

[Repeat for all courses for a particular year and then for all year]

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Netaji Subhash Engineering College

Online Unit Test (OUT), MAY 2020

Name of the Department: Mechanical Engineering

Year: 2020

Course Name: Machine Design

Course Code: ME 603

Exam Date: 19.05.2020 Exam Time: 3:30 PM to 4:40 PM Exam Duration: 1 hour 10 minutes

Exam Mode: Google Form / GATetutor / Other (Please mention): Google Docs

Syllabus of the Course for this OUT:

- [1] Spur gear
- [2] Helical gear
- [3] Bevel gear
- [4] Worm & worm wheel
- [5] Flywheel
- [6] Pressure vessel

% of Completion of total Syllabus: 100%

Netaji Subhash Engineering College

Online Unit Test (OUT), MAY 2020

Name of the Department: Mechanical Engineering

Year: 3rd

Course Name: Air Conditioning & Refrigeration

Course Code: ME 604 A

Name of the subject	Exam Date:	Exam Time:	Exam Duration:
Air Conditioning & Refrigeration	20/05/2020	12:05 PM to 12:55 PM	50 min

Exam Mode: Google Form / GATE tutor / Other (Please mention): Google Form

Syllabus of the Course for this OUT:

Module No	Topics
1	Introduction: Concepts of Refrigeration and Air-conditioning. Unit of refrigeration, Refrigerants– Desirable Properties, Nomenclature
2	Simple Vapour Compression Refrigeration System(Simple VCRS): Vapour compression cycle on p-h and T-s diagrams. Cycles with subcooling and superheating, their effects; Effect of changes in evaporator pressure and condenser pressure on the performance of a simple VCRS; dry compression and wet compression of refrigerant; actual Vapour Compression Cycle.
3	Air Refrigeration System (ARS): Bell-Coleman refrigerator. COP determination, actual air refrigeration cycle.
4	Vapour Absorption Refrigeration System (VARs): Advantages of VARs over VCRS. Working principle of simple VARs, practical VARs. Limitations of VARs, maximum COP of a VARs, Lithium bromide-water System; Aqua-ammonia systems.
7	Basic definitions and principles related to Psychrometry ; Psychrometric Charts & Their Uses; Heating, Cooling, Heating & Humidification & Cooling & Dehumidification processes. Adiabatic Saturation, Cooling Coils, By-pass Factor.
8	Sensible Heat Factors. Heat Load estimation: Simple cases of Cooling and Dehumidification.

% of Completion of total Syllabus: 85%

-----[Repeat for all courses for a particular year and then for all year]

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Netaji Subhash Engineering College

Online Unit Test (OUT), MAY 2020

Name of the Department: Mechanical Engineering

Year: 3rd Year Sec A

Course Name: Machining Principles and Machine Tools

Course Code: ME 602

Exam Date: 19.05.2020

Exam Time: 12.05-1.45 PM

Exam Duration: 100 minutes

Exam Mode: Google Form /GATetutor / Other (Please mention): Google Docs

Syllabus of the Course for this OUT:

1. Module 2 (Geometry of cutting tools).
2. Module 3 (Mechanism of Machining)
3. Module 4 (Mechanics of Machining)
4. Module 5 (Cutting Temperature)
5. Module 6 (Cutting tools- failure, life and Materials)

% of Completion of total Syllabus: 100%

[Repeat for all courses for a particular year and then for all year]

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NetajiSubhash Engineering College

Online Unit Test (OUT), MAY 2020

Name of the Department: MECHANICAL ENGINEERING

Year: 3rd

Course Name: Materials Handling

Course Code: ME 605A

Exam Date: 20/05/2020 WEDNESDAY Exam Time: 3:30 PM to 5:10 PM

Exam Duration: 3:30 PM to 5:10 PM

Exam Mode: Google Form / GATetutor / Other (Please mention): Google Form

Syllabus of the Course for this UT:

MODULE: 1, 2A, 2B, 3 and 5

% of Completion of total Syllabus: 100%

[Repeat for all courses for a particular year and then for all year]

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Netaji Subhash Engineering College

Online Unit Test (OUT), MAY 2020

Name of the Department: **Mechanical Engineering**

Year: 4th year

Course Name: Energy Conservation & Management (for 4th year)

Course Code: ME 802 C

Name of the subject	Exam Date:	Exam Time:	Exam Duration:
Energy Conservation & Management	19/05/2020	7:00 PM to 7:50 PM	50 min

Exam Mode: Google Form / GATE tutor / Other (Please mention): Google Form

Syllabus of the Course for this OUT:

Module	Topics
1	The Energy Resources; Finite & Renewable
2	The Need for Energy Conservation- estimation of The Need for Energy Conservation- estimation of
3	Total Energy Concept- CHP Cycles & their applications
4	Waste Heat Recovery; Waste Heat Exchangers; Commercial Waste Heat Recovery Devices- Recuperators, Regenerative Heat Exchangers, Heat Pipes
5	Industrial Energy Conservation- Industrial Insulations; Case Studies for HVAC, Air Compressor, Mechanical Handling & Other Systems

% of Completion of total Syllabus: **80%**

-----[Repeat for all courses for a particular year and then for all year]

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NetajiSubhash Engineering College

Online Unit Test (OUT), MAY 2020

Name of the Department: Mechanical Engineering

Year: 4TH Year

Course Name: CAD/CAM

Course Code: ME802A

Exam Date:19/05/2020 Exam Time: 07:00 pm-07:50 pm Exam Duration: 50 mins

Exam Mode: Google Form /GATetutor / Other (Please mention): Google Form

Syllabus of the Course for this UT:

Introduction to computer aided manufacturing (CAM) systems, basic building blocks of computer integrated manufacturing (CIM), Toolings of CNC machines, tool and work handling systems involving robot, AGV, RTV,AS/RS, ATC, APC, Robotics; types, anatomy, drives and applications, Computer aided production planning and control, Manufacturing from product design- CAD/CAM interface, concept of group technology (GT), CAPP

% of Completion of total Syllabus: 85%

[Repeat for all courses for a particular year and then for all year]

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NetajiSubhash Engineering College

Online Unit Test (OUT), MAY 2020

Name of the Department: MECHANICAL ENGINEERING

Year: 4th

Course Name: Quality & Reliability Engineering

Course Code: ME 802D

Exam Date: 19/05/2020 WEDNESDAY Exam Time: 6:00 PM to 6:50 PM

Exam Duration: 6:00 PM to 6:50 PM

Exam Mode: Google Form / GATetutor / Other (Please mention): Google Form

Syllabus of the Course for this UT:

MODULE: 1, 2, 3, 4 and 6

% of Completion of total Syllabus: 100%

[Repeat for all courses for a particular year and then for all year]

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Netaji Subhash Engineering College

Online Unit Test (OUT), MAY 2020

Name of the Department: Mechanical engineering

Year: 4th

Course Name: CAD/CAM

Course Code: ME 802A

Exam Date: 19/05/2020 Exam Time: 8:00pm – 8:50pm Exam Duration: 50mins

Exam Mode: Google Form / GATetutor / Other (Please mention): Google form

Syllabus of the Course for this OUT: Introduction to CAD, Geometric Modelling, Computer Graphics, Finite element method.

% of Completion of total Syllabus: 85%

[Repeat for all courses for a particular year and then for all year]

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Netaji Subhash Engineering College

Online Unit Test (OUT), MAY 2020

Name of the Department: Mechanical Engineering
Year: 2020
Course Name: Water Resource Engineering
Course Code: ME 803C
Exam Date: 20.05.2020 Exam Time: 7:00 PM to 7:50 PM Exam Duration: 50 minutes
Exam Mode: Google Form / GATetutor / Other (Please mention): Google Docs
Syllabus of the Course for this OUT: Up to module 4
% of Completion of total Syllabus: 100%

[Repeat for all courses for a particular year and then for all year]

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NetajiSubhash Engineering College

Online Unit Test (OUT), MAY 2020

Name of the Department: Mechanical Engineering

Year:2nd Year

Course Name: **Materials Engineering**

Course Code: Es-ME-401

Exam Date:18/05/2020 Exam Time: 11:10 pm to 11:50 pm Exam Duration:40 minute

Exam Mode: Google Form /GATetutor / Other (Please mention): Google Form

Syllabus of the Course for this OUT: Module 2 and 3

% of Completion of total Syllabus:100

[Repeat for all courses for a particular year and then for all year]

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NetajiSubhash Engineering College

Online Unit Test (OUT), MAY 2020

Name of the Department: Mechanical Engineering

Year 3rd Year

Course Name: *Machine Design*

Course Code: ME-603

Exam Date: 19/05/2020 Exam Time: 4:50 pm to 5:20 pm Exam Duration:30 minute

Exam Mode: Google Form /GATetutor / Other (Please mention): Google Form

Syllabus of the Course for this OUT: Module 1,2 and 8

% of Completion of total Syllabus:100

[Repeat for all courses for a particular year and then for all year]

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NetajiSubhash Engineering College

Online Unit Test (OUT), MAY 2020

Name of the Department: Mechanical Engineering

Year 4th Year

Course Name: *Automobile Engineering*

Course Code: ME-803(D)

Exam Date: 20/05/2020 Exam Time :7:00 pm to 7:50 pm Exam Duration:50 minute

Exam Mode: Google Form /GATetutor / Other (Please mention): Google Form

Syllabus of the Course for this OUT: Module 4,5,6,7,8

% of Completion of total Syllabus:100

[Repeat for all courses for a particular year and then for all year]

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