

# Netaji Subhash Engineering College

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## Online Unit Test (OUT), MAY 2020

Name of the Department: ECE

Year: 2<sup>nd</sup> (Sec B)

Course Name: Design and Analysis of Algorithm

Course Code: ES-CS401

Exam Date: 20.05.2020

Exam Time: 1.00 PM

Exam Duration: 1 Hour

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

Syllabus of the Course for this OUT: Module -I, Module-II, Module-III, and Module-IV

% of Completion of total Syllabus: 95 %

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

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

# Netaji Subhash Engineering College

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## Online Unit Test (OUT), MAY 2020

Name of the Department: ECE

Year: 2020

Course Name: Numerical Methods

Course Code: BS-M401

Exam Date: 19/05/2020

Exam Time: 11 AM

Exam Duration:

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

Syllabus of the Course for this OUT: **Module I and Module II**

% of Completion of total Syllabus: 75%

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

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# NetajiSubhash Engineering College

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## Online Unit Test (OUT), MAY 2020

Name of the Department: BASIC ENGINEERING SCIENCES

Year: 2<sup>nd</sup>

Course Name: BIOLOGY

Course Code: BS – B 401

Exam Date: 21/05/2020 Exam Time: 01: 00 P.M. TO 02: 15 P.M. Exam Duration: 1 Hour 15 minutes

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

Syllabus of the Course for this OUT:

Chapter 1. Introduction

Chapter 2. Biological classification

Chapter 3. Cell biology

Chapter 4. Genetics

Chapter 5. Information transfer

Chapter 6. Biomolecules

Chapter 7. Macromolecular analysis

Chapter 8. Metabolism

% of Completion of total Syllabus: 100%

# NetajiSubhash Engineering College

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## Online Unit Test (OUT), MAY 2020

Name of the Department: BBA

Year: 2020

Course Name: Principles of Management(ECE 3<sup>rd</sup> yr Sec A &B )

Course Code: HU-601

Exam Date: 19/05/2020                      Exam Time: 11:00 A.M    Exam Duration:1 hr 15mins(as per schedule)

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

Syllabus of the Course for this OUT- Name of chapters: Basic Concepts of Management, Functions of Management, Management & Society, People Management, Managerial Competencies,Leadership,Decision Making,Customer Management, Operations & Technology Management,Quantitative Analysis.

%age of Completion of total Univ. Syllabus: 95%

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

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# Netaji Subhash Engineering College

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## Online Unit Test (OUT), MAY 2020

Name of the Department: Electronics & Communication Engineering

Year: 4<sup>th</sup> Year 8<sup>th</sup> Semester

Course Name: Organisational Behaviour

Course Code: HU801A

Exam Date: 19/05/2020

Exam Time: 11:00 am

Exam Duration: 1 hour

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

Syllabus of the Course for this OUT: Full syllabus of HU 801A

% of Completion of total Syllabus: 100% complete.

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

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# Netaji Subhash Engineering College

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## Online Unit Test (OUT), MAY 2020

Name of the Department: ECE

Year: 2nd Year, SEC A

Course Name: Design And Analysis Of Algorithm

Course Code: ES CS 401

Exam Date: 20/05/2020

Exam Time: 1PM-2.15 Exam Duration: 1hr. 15 Min.

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

Syllabus of the Course for this OUT: 70%

% of Completion of total Syllabus: 95%

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

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# Netaji Subhash Engineering College

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## Online Unit Test (OUT), MAY 2020

**Name of the Department:** Electronics & Communication Engineering

**Year:** 3rd

**Course Name:** Digital Signal Processing (SEC-A)

**Course Code:** EC602

**Exam Date:** 20.05.2020      **Exam Time:** 11:00 A.M – 12:15 P.M      **Exam Duration:** 1Hour

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

**Syllabus of the Course for this OUT:** Concept and relations for DFT/IDFT, Twiddle factors and their properties, computational burden on direct DFT, DFT/IDFT as linear transformations, DFT/IDFT matrices, computation of DFT/IDFT by matrix method, multiplication of DFTs, circular convolution, computation of circular convolution by graphical, DFT/IDFT and matrix methods, linear filtering using DFT, aliasing error, filtering of long data sequences – Overlap-Save and Overlap-Add methods with examples and exercises.

Radix-2 algorithm, decimation-in-time, decimation-in-frequency algorithms, signal flow graphs, Butterflies, computations in one place, bit reversal, examples for DIT & DIF FFT Butterfly computations and exercises. Basic concepts of IIR and FIR filters, design of Butterworth IIR analog filter using impulse invariant and bilinear transforms. Elementary idea about the architecture and important instruction sets of TMS320C 5416/6713 processor, writing of small programs in Assembly Language. Architecture, different sub-systems, design flow for DSP system design, mapping of DSP algorithms onto FPGA.

**% of Completion of total Syllabus:** 98%

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

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# Netaji Subhash Engineering College

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## Online Unit Test (OUT), MAY 2020

**Name of the Department:** Electronics & Communication Engineering

**Year:** 3rd

**Course Name:** Telecommunication System (SEC-B)

**Course Code:** EC603

**Exam Date:** 20.05.2020      **Exam Time:** 1:00 P.M –2:15 P.M      **Exam Duration:** 1Hour

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

**Syllabus of the Course for this OUT:** Circuit Switching & Packet Switching, Digital Switching systems - Time division Time switch, Time multiplexed Space switch, Time multiplexed Time switch, Hybrid switching, ; TS, ST, STS, TST systems; Architecture of 5ESS systems; Stored Program Control: Software architecture, Application software; Electronic Exchanges, Introduction to cordless telephones and Digital PABX. Traffic Engineering: Blocking network, blocking probability, grade of service, traffic load, Erlang-B and C-congestion formulas-case studies. Modems and Their Standards: RS 232C; DTE and DCE, Facsimile Transmission, Broad band transmission-ISDN, DSL and ADSL, ISDN and B-ISDN

IP Telephony: Voice over IP, Session initiation protocol, H.323 signalling, IP multimedia service

**% of Completion of total Syllabus:** 98%

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

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# Netaji Subhash Engineering College

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## Online Unit Test (OUT), MAY 2020

Name of the Department: ECE

Year: 3rd

Course Name: Electronic Measurement & Instrumentation

Course Code:EC605C

Exam Date: *21.05.2020* Exam Time: 1:00pm-2:15pm Exam Duration: 1hr 15mins

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

Syllabus of the Course for this OUT:50%

% of Completion of total Syllabus:90%

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

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# Netaji Subhash Engineering College

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## Online Unit Test (OUT), MAY 2020

Name of the Department: Electronics & Communication Engineering (ECE)

Year: 4<sup>th</sup>

Course Name: Renewable Energy

Course Code: EC 802C

Exam Date: 20.05.2020      Exam Time: 11:00 am-12:15 pm      Exam Duration: 1 hour 15 minutes

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

Syllabus of the Course for this OUT: Classification of Energy Sources, Solar Energy, Wind Energy, Bio Energy, Bio diesel, Tidal Energy, Wave Energy, Geo thermal Energy, Fuel Cells, Magneto hydrodynamics energy conversion.

% of Completion of total Syllabus: 94 %

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

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# Netaji Subhash Engineering College

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## Online Unit Test (OUT), MAY 2020

Name of the Department: ECE

Year: 3<sup>rd</sup> Year

Course Name: Digital Communication(Sec A)

Course Code: EC601

Exam Date: 19/05/2020

Exam Time:1-2:15

Exam Duration:1 Hr 15 min

Exam Mode: Google Form / GATetutor / Other (Please mention): Question paper to be posted in Google classroom

Syllabus of the Course for this OUT: Probability and Random Process & Signal Vector Representation

% of Completion of total Syllabus: 90%

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

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# Netaji Subhash Engineering College

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## Online Unit Test (OUT), MAY 2020

Name of the Department: ECE

Year: 2nd

Course Name: Analog Communication

Course Code: EC 401

Exam Date: 19/05/2020  
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Exam Time: 11-12:15

Exam Duration: 1 Hr 15

Exam Mode: Google Form / GATetutor / Other (Please mention): Question paper to be posted in Google Classroom

Syllabus of the Course for this OUT: FM Demodulation, Multiplexing, Noise

% of Completion of total Syllabus: 100%

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

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# Netaji Subhash Engineering College

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## Online Unit Test (OUT), MAY 2020

Name of the Department: Electronics and Communication engg.

Year: 2019-20

Course Name: telecommunication systems(sec A)

Course Code: EC 603

Exam Date: 20/5/2020                      Exam Time: 1.00pm  
Exam Duration: 1hr15min

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

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

% of Completion of total Syllabus: 95%

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

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# Netaji Subhash Engineering College

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## Online Unit Test (OUT), MAY 2020

Name of the Department: Electronics and Communication Engg.

Year: 2019-20

Course Name:Microprocessor and Microcontroller(sec A)

Course Code:EC 403

Exam Date: 20/5/2020      Exam Time:    11.00am-12.15pm      Exam Duration:1hr 15min

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

Syllabus of the Course for this OUT:Module 2, 3 4

% of Completion of total Syllabus:90%

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

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# NetajiSubhash Engineering College

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## Online Unit Test (OUT), MAY 2020

Name of the Department: ECE

Year: 3<sup>rd</sup> Year, SEC B

Course Name: Digital Signal Processing

Course Code: EC 602

Exam Date: 20/05/2020

Exam Time: 11AM-12.15

Exam Duration: 1hr. 15 Min.

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

Syllabus of the Course for this OUT: 50%

% of Completion of total Syllabus: 90%

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

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# Netaji Subhash Engineering College

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## Online Unit Test (OUT), MAY 2020

Name of the Department: ECE

Year: 3<sup>rd</sup> Year, SEC A

Course Name: Object Oriented Programming

Course Code: EC 605A

Exam Date: 21/05/2020

Exam Time: 1PM-2.15 Exam Duration: 1hr. 15 Min.

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

Syllabus of the Course for this OUT: 50%

% of Completion of total Syllabus: 90%

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

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# Netaji Subhash Engineering College

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## Online Unit Test (OUT), MAY 2020

Name of the Department: **ECE**

Year: **2020**

Course Name: **Antenna Theory and Propagation**

Course Code: **EC-604A**

Exam Date: **21.05.2020**

Exam Time: **11 am to 12:15 pm**

Exam Duration: **75 Mins**

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

Syllabus of the Course for this OUT: **Module 3, 4**

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

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

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# Netaji Subhash Engineering College

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## Online Unit Test (OUT), MAY 2020

Name of the Department: **ECE**

Year: **2020**

Course Name: **Smart Antenna**

Course Code: **EC-801A**

Exam Date: **19.05.2020**      Exam Time: **1 pm to 1:15 pm**      Exam Duration: **75 Mins**

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

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

% of Completion of total Syllabus: **75%**

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

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# Netaji Subhash Engineering College

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## Online Unit Test (OUT), MAY 2020

Name of the Department: Electronics and Communication Engineering

Year: 3<sup>rd</sup> SEC: B

Course Name: Digital Communication

Course Code:EC601

Exam Date:19.05.20

Exam Time: 1:00-2:15PM

Exam Duration: 1hr

15min

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

Syllabus of the Course for this OUT:

% of Completion of total Syllabus: 92%

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

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# Netaji Subhash Engineering College

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## Online Unit Test (OUT), MAY 2020

Name of the Department: Electronics and Communication Engineering

Year: 3<sup>rd</sup> (Sec A & B)

Course Name: Information Theory and Coding

Course Code: EC604B

Exam Date: 21.05.20

Exam Time: 11:00-12:15PM

Exam Duration: 1hr 15min

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

Syllabus of the Course for this OUT: Module 4(cyclic code), Module 5(BCH codes) and Module 6(Convolutional codes)

% of Completion of total Syllabus: 95%

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

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# Netaji Subhash Engineering College

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## Online Unit Test (OUT), MAY 2020

Name of the Department: ECE

Year: 3<sup>rd</sup> Year

Course Name: Object Oriented Programming

Course Code: EC 605A

Exam Date: 21/05/2020

Exam Time: 3PM-4.15pm

Exam Duration: 1hr. 15 Min.

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

Syllabus of the Course for this OUT: 50%

% of Completion of total Syllabus: 90%

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

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# NetajiSubhash Engineering College

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## Online Unit Test (OUT), MAY 2020

Name of the Department: SOMA CHATTOPADHYAY

Year: 2<sup>ND</sup> (Sec B)

Course Name: Microprocessor & Microcontrollers

Course Code: **EC403**

Exam Date: *20.05.2020*      Exam Time: **11:00AM-12:15PM**      Exam Duration: 1HR 15 MINUTES

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

Syllabus of the Course for this OUT: 8051 MICROCONTROLLERS

% of Completion of total Syllabus: 95%

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

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# Netaji Subhash Engineering College

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## Online Unit Test (OUT), MAY 2020

Name of the Department: ECE

Year: 4th

Course Name: Satellite Communication & Remote Sensing

Course Code: EC801C

Exam Date: 19/05/2020 Exam Time: 1:00-2:15pm Exam Duration: 1 hr 15 min

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

Syllabus of the Course for this OUT:

Historical background, Basic concepts, Frequency allocation for satellite services, orbital & spacecraft problems, comparison of networks and services, modulation techniques used for satellite communication. (2)

Orbits- Two body problem, orbital mechanics, geostationary orbit, change in longitude, orbital maneuvers, orbital transfer, orbital perturbations. (2)

Launch Vehicles- principles of Rocket propulsion, powered flight, Launch vehicles for communication satellite (1)

RF link- noise, the basic RF link, satellite links (up and down), optimization RF link, intersatellite link, noise temperature, Antenna temperature, overall system temperature, propagation factors, rain attenuation model. Tropospheric and Ionospheric EFFECT. (5)

Satellite subsystems and satellite link design- AOCS, TT&C, power system, spacecraft antenna, transponder, Friis transmission equation, G/T ratio of earth station. (6)

% of Completion of total Syllabus: 80%

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

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# Netaji Subhash Engineering College

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## Online Unit Test (OUT), MAY 2020

Name of the Department: ECE

Year: 4<sup>th</sup> year (Elective)

Course Name: Digital Image Processing

Course Code: EC801B

Exam Date: 19.05.2020 Exam Time: 1 pm : 2.15 pm Exam Duration: 1 hour15 minutes

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

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

% of Completion of total Syllabus: 90 %.

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

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# Netaji Subhash Engineering College

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## Online Unit Test (OUT), MAY 2020

Name of the Department: ECE

Year: 4<sup>th</sup> year (Elective)

Course Name: Neural Network and Applications

Course Code: EC802A

Exam Date: 20.05.2020 Exam Time: 11 pm : 12.15 pm Exam Duration: 1 hour15 minutes

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

Syllabus of the Course for this OUT: Module 3, Module 4, Module 5.

% of Completion of total Syllabus: 90 %.

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

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