ACADEMIC PLAN 2019-20

DEPARTMENT OF BENGALI

K. K. DAS COLLEGE

Anjana Brahma
HOD
Department of Bengali
K. K. Das College
Kolkata - 700 084

K.K. Das College GRH-17 B.G. Patuli Garia, Kol-84

Dr. Ramkrishna Prasad Chakraborty
Principal
K. K. DAS COLLEGE
Garia, Kol-84

B.A. BENGALI (Honours)

Semester- I

Bengali Core Course I: BNG-A-CC-1-1-TH-TU

বাংলা সাহিত্যের ইতিহাস (১৮০০ খ্রিঃ পর্যন্ত)

Faculty: Dr. Anjana Brahma (AB), Dr. Putul Chakraborty (PC), Sripati Pramanik (SP)

Module	Topic	Faculty	Month
I	বাংলা ভাষা ও সাহিত্যের ইতিহাস সম্পর্কিত সাধারণ ধারনা	PC	Sep-Jan
	বাংলা সাহিত্যের যুগবিভাগ – প্রসঙ্গ ও বিতর্ক	PC	Sep-Jan
	বাংলা ভাষা ও সাহিত্যের আদি পর্বের গতিপ্রকৃতি ও নিদর্শন সমূহ	PC	Sep-Jan
	চর্যাপদ	PC	Sep-Jan
	শ্রীকৃষ্ণকীর্তন	PC	Sep-Jan
II	অনুবাদ সাহিত্য – ভাগবত, রামায়ন ও মহাভারত	SP	Sep-Jan
	বৈষ্ণব পদাবলী – বিদ্যাপতি, চন্ডীদাস, জ্ঞানদাস, গোবিন্দদাস	SP	Sep-Jan
	চৈতন্য-চরিত সাহিত্য – চৈতন্যভাগবত, শ্রীচৈতন্যচরিতামৃত	SP	Sep-Jan
III	মঙ্গলকাব্যের উদ্ভব ও বিকাশ	AB	Sep-Jan
	মনসামঙ্গল, ধর্মমঙ্গল, চন্ডীমঙ্গল ও অন্নদামঙ্গল	AB	Sep-Jan
	প্রণয়োপাখ্যান – শাহ মহম্মদ সগীর, দৌলত কাজীও আলাওল	AB	Sep-Jan
	শাক্ত পদাবলী – রামপ্রসাদ সেন ও কমলাকান্ত ভট্টাচার্য	AB	Sep-Jan

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Bengali Core Course II: BNG-A-CC-1-2-TH-TU

বর্ণনামূলক ভাষাবিজ্ঞান ও বাংলাভাষা

Faculty: Dr. Anunoy Chaterjee (AC) & Anamika Roy (AR)

Module	Topic	Faculty	Month
I	ধ্বনি, বর্ণ, অক্ষর – সংজ্ঞার্থ ও পারস্পরিক সম্পর্ক	AC	Sep-Jan
	উচ্চারণস্থান ও উচ্চারণপ্রকৃতি অনুযায়ী বাংলা স্বর ও ব্যঞ্জনধ্বনিগুলির পরিচয়	AC	Sep-Jan
	মৌলিক স্বরধ্বনি ও স্বনিমের ধারণা	AC	Sep-Jan
	বাংলা ভাষার শব্দ ভান্ডার	AR	Sep-Jan
II	শব্দ বিবর্তন, বাংলা ভাষার ধ্বনি পরিবর্তনের রীতি ও প্রকৃতি	AR	Sep-Jan
	বাংলা শব্দার্থ পরিবর্তনের ধারা	AR	Sep-Jan
	বাংলা ভাষার উপভাষা	AR	Sep-Jan
III	বাংলা ভাষার রূপতাত্ত্বিক আলোচনা – বচন, লিঙ্গ, পুরুষ, সামাস, বিভক্তি, কারক, প্রত্যয়, ক্রিয়ার কাল ও অব্যয়	AC	Sep-Jan

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Semester- II

Bengali Core Course III: BNG-A-CC-2-3-TH-TU

বাংলা সাহিত্যের ইতিহাস (উনিশ শতক)

Faculty: Dr. Anjana Brahma (AB), Dr. Anunoy Chaterjee (AC) Dr. Putul Chakraborty (PC), Sripati Pramanik (SP)

	Topic	Faculty	Month
Module I কাব্য-কবিতা ও নাটক-প্রহসন	বাংলা কাব্যে আধুনিকতার সঞ্চার – প্রেক্ষাপট ও স্বরূপ	SP	Feb-June
	আধুনিক বাংলা নাটকের উদ্ভব ও বিকাশ	AC	Feb-June
Module II কথাসাহিত্য ও সাময়িক পত্র	নকশা-কথাগদ্য থেকে উপন্যাস- বাংলা উপন্যাসের উদ্ভব ও বিকাশ	AB	Feb-June
	বাংলা সাময়িক পত্রের উদ্ভব ও বিকাশ	PC	Feb-June
Module III গদ্য ও প্রবন্ধ	বাংলা সাহিত্যে গদ্য রীতি গৃহীত হওয়ার পটভূমি	PC	Feb-June
	বাংলা গদ্যের চর্চা ও বিকাশে শ্রীরামপুর মিশন ও ফোর্ট উইলিয়াম কলেজের ভূমিকা	SP	Feb-June
	বাংলা গদ্যের বিকাশে বিভিন্ন সাময়িক পত্রের অবদান	PC	Feb-June
	বাংলা গদ্য ও প্রবন্ধ সাহিত্যের বিকাশ	AB	Feb-June

Bengali Core Course IV: BNG-A-CC-2-4-TH-TU

বাংলা সাহিত্য : প্রবেশক পাঠ

Faculty: Dr. Anjana Brahma (AB), Dr. Anunoy Chaterjee (AC) Dr. Putul Chakraborty (PC), Sripati Pramanik (SP) & Anamika Roy (AR)

	Topic	Faculty	Month
Module I কবিতা	১৬ টি নির্বাচিত বাংলা কবিতা	AB	Feb-June
Module II কথাসাহিত্য	বঙ্কিমচন্দ্র চট্টোপাধ্যায় - কপালকুন্ডলা	AR	Feb-June
	শরৎচন্দ্র চট্টোপাধ্যায় - অভাগীর স্বর্গ, পরশুরাম - লম্বকর্ণ, সতীনাথ ভাদুড়ী - চরণদাস এম. এল. এ, সমরেশ বসু - আদাব	PC	Feb-June
Module III নাটক ও গদ্য প্রবন্ধ	দীনবন্ধু মিত্র - নীলদর্পন	AC	Feb-June
	রবীন্দ্রনাথ ঠাকুর - বাজেকথা, প্রমথ চৌধুরী - বইপড়া	SP	Feb-June
	অবনীন্দ্রনাথ ঠাকুর - সৌন্দর্যের সন্ধানে, সোফিয়া খাতুন - উনবিংশ শতাব্দীর নারীবিপ্লব	AC	Feb-June

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Semester- III

Bengali Core Course V: BNG-A-CC-3-5-TH-TU

বাংলা সাহিত্যের ইতিহাস (বিংশ শতক)

Faculty: Dr. Anunoy Chaterjee (AC) Dr. Putul Chakraborty (PC), Sripati Pramanik (SP)

Module	Topic	Faculty	Month
I	কাব্য-কবিতা	SP	Aug-Jan
	নাটক	AC	Aug-Jan
II	কথাসাহিত্য	AB	Aug-Jan
III	গদ্য ও প্রবন্ধ	PC	Aug-Jan
	সাময়িক পত্র	PC	Aug-Jan

Bengali Core Course VI: BNG-A-CC-3-6-TH-TU

ঐতিহাসিক ভাষাবিজ্ঞান

Faculty: Dr. Anunoy Chaterjee (AC), Anamika Roy (AR)

Module	Topic	Faculty	Month
I	ভাষা, প্রাচীন ভারতীয় আর্যভাষা থেকে বাংলা ভাষার উদ্ভব	AC	Aug-Jan
II	প্রাচীন ও আদি-মধ্য বাংলা ভাষার ভাষাতাত্ত্বিক লক্ষণ	AR	Aug-Jan
III	অন্ত-মধ্য বাংলা ভাষার ভাষাতাত্ত্বিক লক্ষণ	AR	Aug-Jan
	আধুনিক বাংলা ভাষার ভাষাতাত্ত্বিক লক্ষণ	AC	Aug-Jan

Bengali Core Course VII: BNG-A-CC-3-7-TH-TU

কথাসাহিত্য

Faculty: Dr. Anjana Brahma (AB), Dr. Anunoy Chaterjee (AC) Dr. Putul Chakraborty (PC), Sripati Pramanik (SP) & Anamika Roy (AR)

	Topic	Faculty	Month
Module I	যোগাযোগ – রবীন্দ্রনাথ ঠাকুর	AB	Aug-Jan
Module II	পদ্মানদীর মাঝি – মানিক বন্দ্যোপাধ্যায়	SP	Aug-Jan
Module III	রবীন্দ্রনাথ ঠাকুরের ছোটগল্প	AB	Aug-Jan
	একালের ছোটগল্প সঞ্চয়ন	PC	Aug-Jan

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Skill Enhancement Course (SEC): BNG-A-SEC-A-3-2-TH

ব্যবহারিক বাংলা - ১

Faculty: Dr. Anunoy Chaterjee (AC)

Module	Topic	Faculty	Month
I	গল্প/উপন্যাস থেকে কাহিনি, নাট্যরূপ/চিত্রনাট্য নির্মাণ	AC	Sept-Jan
II	বাংলা শব্দের সঠিক উচ্চারণ, ছন্দ, আবৃত্তিচর্চা	AC	Sept-Jan
III	সাহিত্য ও চলচ্চিত্র	AC	Sept-Jan

Semester- IV

Bengali Core Course VIII: BNG-A-CC-4-8-TH-TU

প্রাগাধুনিক সাহিত্য

Faculty: Dr. Putul Chakraborty (PC), Sripati Pramanik (SP) & Anamika Roy (AR)

Module	Topic	Faculty	Month
I	বৈষ্ণব পদাবলী	AR	Feb-Jun
II	চন্ডীমঙ্গল (১ম খন্ড) – মুকুন্দ চক্রবর্তী	PC	Feb-Jun
III	শাক্ত পদাবলী	SP	Feb-Jun

Bengali Core Course IX: BNG-A-CC-4-9-TH-TU

ছন্দ, অলংকার ও কাব্যতত্ত্ব

Faculty: Dr. Anjana Brahma (AB), Dr. Anunoy Chaterjee (AC)

Module	Topic	Faculty	Month
I	ছন্দ	AC	Feb-Jun
II	অলংকার	AB	Feb-Jun
III	কাব্যতত্ত্ব	AB	Feb-Jun

Bengali Core Course X: BNG-A-CC-4-10-TH-TU

প্রবন্ধ ও বিবিধ আলোচনা

Faculty: Dr. Anjana Brahma (AB), Dr. Anunoy Chaterjee (AC) Dr. Putul Chakraborty (PC)

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Sripati Pramanik (SP) & Anamika Roy (AR)

Module	Topic	Faculty	Month
I	কমলাকান্তের দপ্তর – বঙ্কিমচন্দ্র চট্টোপাধ্যায়	SP	Feb-Jun
	একালের প্রবন্ধ সঞ্চয়ন	PC	Feb-Jun
II	সাহিত্য – রবীন্দ্রনাথ ঠাকুর	AB	Feb-Jun
	একালের সমালোচনা সঞ্চয়ন	AC	Feb-Jun
III	ছিন্নপত্র - রবীন্দ্রনাথ ঠাকুর	AB	Feb-Jun

Skill Enhancement Course (SEC): BNG-A-SEC-B-4-2-TH
ব্যবহারিক বাংলা - ২

Faculty: Dr. Anunoy Chaterjee (AC), Anamika Roy (AR)

Module	Topic	Faculty	Month
I	সৃজনশীল রচনা	AC	Feb-May
II	বাংলা বানানের বিবর্তন, বানান বিধি	AC	Feb-May
III	আন্তর্জাতিক ধ্বনিমূলক বর্ণমালা (IPA), রোমীয় লিপি	AR	Feb-May

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B.A. BENGALI (General)

Semester- I

Bengali Core Course I/Generic Elective Course I: BNG-G-CC/GE-1-1-TH-TU

বাংলা সাহিত্যের ইতিহাস (আধুনিক যুগ)

Faculty: Dr. Anjana Brahma (AB), Dr. Anunoy Chaterjee (AC) Dr. Putul Chakraborty (PC), Sripati Pramanik (SP), Anamika Roy (AR)

	Topic	Faculty	Month
Module I গদ্য ও প্রবন্ধ	শ্রীরামপুর মিশন, ফোর্ট উইলিয়াম কলেজ রাজা রামমোহন রায়, ঈশ্বরচন্দ্র বিদ্যাসাগর, অক্ষয় কুমার দত্ত	AR	Aug- Jan
	প্যারীচাঁদ মিত্র, কালীপ্রসন্ন সিংহ, বঙ্কিমচন্দ্র চট্টোপাধ্যায়, রবীন্দ্রনাথ ঠাকুর, প্রমথ চৌধুরী, বুদ্ধদেব বসু	PC	Aug- Jan
Module II কাব্য-কবিতা ও নাটক	ঈশ্বরচন্দ্র গুপ্ত, রঙ্গলাল বন্দ্যোপাধ্যায়, মধুসূদন দত্ত, বিহারীলাল চক্রবর্তী, রবীন্দ্রনাথ ঠাকুর, কাজী নজরুল ইসলাম, যতীন্দ্রনাথ সেনগুপ্ত, জীবনানন্দ দাশ, সুভাষ মুখোপাধ্যায়	SP	Aug- Jan
	মধুসূদন দত্ত, দীনবন্ধু মিত্র, গিরিশচন্দ্র ঘোষ, রবীন্দ্রনাথ ঠাকুর, দ্বিজেন্দ্রলাল রায়, বিজন ভট্টাচার্য	AC	Aug- Jan
Module III উপন্যাস ও ছোটগল্প	বাংলা উপন্যাসের উদ্ভব ও বিকাশ বঙ্কিমচন্দ্র চট্টোপাধ্যায়, রবীন্দ্রনাথ ঠাকুর, শরৎচন্দ্র চট্টোপাধ্যায়, বিভূতিভূষণ বন্দ্যোপাধ্যায়, মানিক বন্দ্যোপাধ্যায়, তারাশঙ্কর বন্দ্যোপাধ্যায়	AB	Aug- Jan

Semester- II

Bengali Core Course II/Generic Elective Course II: BNG-G-CC/GE-2-2-TH-TU

ঐতিহাসিক ভাষাবিজ্ঞান, ছন্দ ও অলঙ্কার

Faculty: Dr. Anjana Brahma (AB), Dr. Anunoy Chaterjee (AC) , Anamika Roy (AR)

	Topic	Faculty	Month
Module I ঐতিহাসিক ভাষাবিজ্ঞান	প্রাচীন ভারতীয় আর্য ভাষা থেকে আধুনিক ভারতীয় আর্য ভাষা হিসেবে বাংলা ভাষার উদ্ভবের গতিরেখা	AC	Feb-June
	আদি-মধ্য বাংলা ভাষার ভাষাতাত্ত্বিক লক্ষণ – প্রেক্ষিত শ্রীকৃষ্ণকীর্তন	AR	Feb-June
Module II ছন্দ	অক্ষর, দল, কলা, মাত্রা, যতি, পর্ব, পদ, পঙ্‌ক্তি/চরণ – সংজ্ঞা ও উদাহরণ বাংলা ছন্দের ত্রিধারা – সংজ্ঞা, বৈশিষ্ট্য ও উদাহরণ ছন্দোলিপি প্রণয়ন	AC	Feb-June
Module III অলঙ্কার	অলঙ্কার সম্পর্কে সাধারণ ধারণা অনুপ্রাস, যমক, শ্লেষ, বক্রোক্তি, উপমা, রূপক, উৎপ্রেক্ষা, সমাসোক্তি, ব্যতিরেক - সংজ্ঞা ও উদাহরণ অলঙ্কার নির্ণয়	AB	Feb-June

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Semester- III

Bengali Core Course III/Generic Elective Course III: BNG-G-CC/GE-3-3-TH-TU

বাংলা কাব্য-কবিতা ও নাটক

Faculty: Dr. Anjana Brahma (AB), Dr. Putul Chakraborty (PC), Sripati Pramanik (SP), Anamika Roy (AR)

	Topic	Faculty	Month
Module I প্রাগাধুনিক কবিতা	বৈষ্ণব পদাবলী	AR	Aug-Dec
Module II আধুনিক কবিতা	পুনশ্চ (নির্বাচিত কবিতা) – রবীন্দ্রনাথ ঠাকুর	PC	Aug-Dec
	একালের কবিতা সঞ্চয়ন (নির্বাচিত কবিতা)	SP	Aug-Dec
Module III বাংলা নাটক	রাজা ও রানী - রবীন্দ্রনাথ ঠাকুর	AB	Aug-Dec

Skill Enhancement Course (SEC): BNG-G-SEC-A-3/5-2-TH

ব্যবহারিক বাংলা - ১

Faculty: Dr. Anunoy Chaterjee (AC)

Module	Topic	Faculty	Month
I	গল্প/উপন্যাস থেকে কাহিনি, নাট্যরূপ/চিত্রনাট্য নির্মাণ	AC	Sept
II	বাংলা শব্দের সঠিক উচ্চারণ, ছন্দ, আবৃত্তিচর্চা	AC	Nov
III	সাহিত্য ও চলচ্চিত্র	AC	Dec

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Semester- IV

Bengali Core Course IV/Generic Elective Course IV: BNG-G-CC/GE-4-4-TH-TU

বাংলা কথাসাহিত্য ও প্রবন্ধ

Faculty: Dr. Anjana Brahma (AB), Dr. Putul Chakraborty (PC), Sripati Pramanik (SP)

	Topic	Faculty	Month
Module I উপন্যাস	পল্লীসমাজ – শরৎচন্দ্র চট্টোপাধ্যায়	SP	Feb-June
Module II ছোটগল্প	একালের ছোটগল্প সঞ্চয়ন	PC	Feb-June
Module III প্রবন্ধ	সংকলন - রবীন্দ্রনাথ ঠাকুর	AB	Feb-June

BNG-G-LCC(2)-4-1-TH-TU

বাংলা ভাষা বিজ্ঞান, সাহিত্যের রূপভেদ ও কাব্য

Faculty: Dr. Anunoy Chaterjee (AC), Anamika Roy (AR)

	Topic	Faculty	Month
Module I	বাংলা ভাষাবিজ্ঞান	AC	Feb-June
Module II	সাহিত্যের রূপভেদ	AC, AR	Feb-June
Module III	মেঘনাদবধ কাব্য – মাইকেল মধুসূদন দত্ত	AR	Feb-June

Skill Enhancement Course (SEC): BNG-G-SEC-B-4/6-2-TH

ব্যবহারিক বাংলা - ২

Faculty: Dr. Anunoy Chaterjee (AC), Anamika Roy (AR)

Module	Topic	Faculty	Month
I	সৃজনশীল রচনা	AC	Feb-June
II	বাংলা বানানের বিবর্তন, বানান বিধি	AC	Feb-June
III	আন্তর্জাতিক ধ্বনিমূলক বর্ণমালা (IPA), রোমীয় লিপি	AR	Feb-June

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Ability Enhancement Compulsory Course (AECC-I)

MIL (Bengali)

কলা, বিজ্ঞান ও বাণিজ্যসহ সমস্ত বিভাগের পড়ুয়াদের জন্য

BNG-AECC-1-1-TH

Faculty: Dr. Anjana Brahma (AB), Dr. Anunoy Chaterjee (AC) Dr. Putul Chakraborty (PC), Sripati Pramanik (SP) & Anamika Roy (AR)

	Topic	Month	Faculty
Module I প্রবন্ধ	স্বদেশী সমাজ - রবীন্দ্রনাথ ঠাকুর বাঙ্গালা ভাষা – স্বামী বিবেকানন্দ স্ত্রী জাতির অবনতি - বেগম রোকেয়া অপবিজ্ঞান – রাজশেখর বসু	Sep-Dec	**BA/BSc (H) - PC** **BA/BSc (G) - SP** **BCom (H) - AC** **BCom (G) - AR**
Module II ছোটগল্প	ছুটি, জীবিত ও মৃত, পোস্টমাস্টার, বলাই : রবীন্দ্রনাথ ঠাকুর	Sep-Dec	
Module III কবিতা	নৈবেদ্য - রবীন্দ্রনাথ ঠাকুর	Sep-Dec	
Module IV পরিভাষা	পরিভাষা	Sep-Dec	

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B.A. BENGALI (Honours)

Part- III

Faculty: Dr. Anjana Brahma (AB), Dr. Anunoy Chaterjee (AC) , Dr. Putul Chakraborty (PC), Sripati Pramanik (SP), Anamika Roy (AR)

Paper	Module	Topic	Faculty	Month
5	I	কাব্যের রূপভেদ	AR	Aug- Jan
	II	বীরাঙ্গনা	AR	Aug- Jan
	III	সোনার তরী	AB	Aug- Jan
	IV	সঞ্চিতা	PC	Aug- Jan
	V	একালের কবিতা সঞ্চয়ন	AB	Aug- Jan
	VI	কাব্যশৈলী	AC	Aug- Jan
6	I	পুতুল নাচের ইতিকথা	SP	Aug- Jan
	II	অরণ্যের অধিকার	AC	Aug- Jan
	III	রবীন্দ্রনাথ ঠাকুরের ছোটগল্প	AB	Aug- Jan
	IV	স্বাধীনতা পূর্ববর্তী বাংলা ছোটগল্প	PC	Aug- Jan
	V	স্বাধীনতা পরবর্তী বাংলা ছোটগল্প	AC	Aug- Jan
7	I	প্রবন্ধ নিবন্ধের রূপভেদ	AR	Aug- Jan
	II	কমলাকান্তের দপ্তর	SP	Aug- Jan

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	III	ছিন্নপত্র	AB	Aug- Jan
	IV	একালের প্রবন্ধ সঞ্চয়ন	PC	Aug- Jan
	V	একালের সমালোচনা সঞ্চয়ন	AC	Aug- Jan
	VI	প্রবন্ধ রচনা	SP	Aug- Jan
8	I	সংস্কৃত সাহিত্যের ইতিহাস	PC	Aug- Jan
	II	ইংরেজি সাহিত্যের ইতিহাস	AR	Aug- Jan
	III	প্রতিবেশী সাহিত্যের ইতিহাস	PC	Aug- Jan
	IV	কাব্য জিজ্ঞাসা	AB	Aug- Jan
	V	সাহিত্য-রবীন্দ্রনাথ ঠাকুর	AB	Aug- Jan

B.A. BENGALI (General)

Part- III

Faculty: Dr. Anjana Brahma (AB), Dr. Anunoy Chaterjee (AC) , Dr. Putul Chakraborty (PC), Sripati Pramanik (SP), Anamika Roy (AR)

Paper	Module	Topic	Faculty	Month
4	I	পরিভাষা	AR	Aug- Jan
	II	প্রুফ সংশোধন	SP	Aug- Jan
	III	প্রবন্ধ রচনা	AR	Aug- Jan
	IV	অনুবাদ	AR	Aug- Jan
	V	ভাষাতত্ত্ব	AR	Aug- Jan
	VI	IPA	AR	Aug- Jan
	VII	সাক্ষাৎকার	AR	Aug- Jan
	VII	বিজ্ঞাপন/পত্র লিখন	AR	Aug- Jan

* *This is a tentative distribution for successful completion of the syllabus. The Department, although has responsibility towards the successful completion of the syllabus, however, holds that the distribution of Month and syllabus is subjected to modification under unavoidable circumstances within the bounded time-frame.*

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DEPARTMENT OF COMMERCE

PROGRAMME BACHELOR OF COMMERCE (CBCS)

ACADEMIC PLAN

SESSION 2019-20

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SEMESTER-I (HONS)

SEM-I (H)-2020-2021					
YEAR	**PAPER**	**UNIT**	**TOPIC**	**TEACHER**	**MONTH**
1ST	FINANCIAL ACCOUNTING –I	1	Introduction	SM	DEC
	CC 1.1 Ch	2	Concepts for determination of business income	RS	DEC
		3	Introduction to Accounting Standard	SM	DEC
			Introduction to Accounting Theory	RS	DEC
		4	Final accounts of Trading Concern	SM	JAN
		5	Financial statements from Incomplete records and of NPO	SM	FEB
		6	Accounting for special sales transaction	RS	JAN
			Sectional and Self balancing ledger	RS	FEB
			Insurance claim for loss of stock and for loss of profit	RS	FEB
			Internal Assessment		MAR
			C U Examination		MAR
SEM-I (H) 2020-2021	Business Laws	1	The Indian Contract Act, 1872	BP	DEC-JAN
YEAR	CC 1.1 Chg	2	The Sale of Goods Act, 1930	SS	DEC
1ST		3	Partnership Laws	BP	JAN
			The Limited Liability Partnership Act, 2008	BP	FEB
		4	The Negotiable Instruments Act 1881	SS	JAN
		5	Consumers Protection Act, 1986	BP	FEB
			Internal Assessment		MAR
			C U Examination		MAR
SEM-I (H) 2020-2021					
YEAR	Principles of Management	1	Introduction	BP	DEC
1ST	CC 1.2 Chg	2	Planning	RP	DEC-JAN
		3	Organizing	BP	JAN
		4	Directing and Staffing	BP	FEB
		5	Motivation, Co-ordination and Control	RP	FEB
			Internal Assessment		MAR

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			C U Examination		MAR
	Statistics				
	CC1.1Chg	1	Fundamental of Statistics	AA	Dec
		2	Measures of Central Tendency	AA	DEC-JAN
		3	Measures of Dispersion	AA	JAN
		4	Moments, Skewness and Kurtosis	AA	FEB
		5	Interpolation	AA	FEB
			Internal Assessment		MAR
			C U Examination		MAR
	Economics				
1ST		1	Demand & Consumer Behaviour	SKG	Dec-Jan
		2	Production & Cost	SG	Dec
		3	Perfect Competition	SKG	Jan-Feb
			Internal Assessment		MAR
			C U Examination		MAR

SEMESTER-I (GEN)

SEM-I (G)-2020-2021					
YEAR	PAPER	UNIT	TOPIC	TEACHER	MONTH
1ST	FINANCIAL ACCOUNTING –I	1	Introduction	RP	DEC
	CC 1.1 Ch	2	Concepts for determination of business income	RS	DEC
		3	Introduction to Accounting Standard	RP	DEC
			Introduction to Accounting Theory	RS	DEC
		4	Final accounts of Trading Concern	RP	JAN
		5	Financial statements from Incomplete records and of NPO	RP	FEB
		6	Accounting for special sales transaction	RS	JAN
			Sectional and Self balancing ledger	RS	FEB
			Insurance claim for loss of stock and for loss of profit	RS	FEB
			Internal Assessment		MAR
			C U Examination		MAR
SEM-I (G) 2020-2021	Business Laws	1	The Indian Contract Act, 1872	BP	DEC-JAN
YEAR	CC 1.1 Chg	2	The Sale of Goods Act, 1930	SS	DEC
1ST		3	Partnership Laws	BP	JAN

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			The Limited Liability Partnership Act, 2008	BP	FEB
		4	The Negotiable Instruments Act 1881	SS	JAN
		5	Consumers Protection Act, 1986	BP	FEB
			Internal Assessment		MAR
			C U Examination		MAR
SEM-I (G) 2020-2021					
	Principles of Management	1	Introduction	BP	DEC
YEAR	CC 1.2 Chg	2	Planning	RS	DEC-JAN
1ST		3	Organizing	BP	JAN
		4	Directing and Staffing	BP	FEB
		5	Motivation, Co-ordination and Control	RS	FEB
			Internal Assessment		MAR
			C U Examination		MAR
	Statistics				
	CC1.1Chg	1	Fundamental of Statistics	AA	Dec
		2	Measures of Central Tendency	AA	DEC-JAN
		3	Measures of Dispersion	AA	JAN
		4	Moments, Skewness and Kurtosis	AA	FEB
		5	Interpolation	AA	FEB
			Internal Assessment		MAR
			C U Examination		MAR
	Economics				
			Demand & Consumer Behaviour	SKG	Dec-Jan
			Production & Cost	SG	Dec
			Perfect Competition	SKG	Jan-Feb
			Internal Assessment		MAR
			C U Examination		MAR

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SEMESTER-II(HONS)

YEAR	PAPER	UNIT	TOPIC	TEACHER	MONTH
	E-COMMERCE	1	Introduction	AS	Apr
		2	E-CRM and SCM	RP	Apr
		3	Digital Payment	AS	May
		4	ERP	RP	May-June
		5	New Trends in E-Commerce	AS	June
	GE 2.1 Chg		Internal Assessment		July
			C U Examination		July
1ST	B Communication	1	Introduction	SM	Apr
		2	Types of Communication	SM	May
		3	Tools of Communication	SM	Jun
		4	Drafting	SS	Apr-June
			Internal Assessment		July
			C U Examination		July
1ST	Company Law	1	Introduction To Company Law	BP	Apr
		2	FORMATION OF A COMPANY[	BP	Apr
		3	COMPANY ADMINISTRATION[	BP	May
		4	SHARE CAPITAL & DEBENTURE[	BP	May
		5	CORPORATE MEETINGS	BP	June
	CC2.1 Chg		Internal Assessment		July
			C U Examination		July
1ST	Marketing Management	1	Introduction	BP	Apr
		2	Consumer Behavior and Market segmentation:	RP	Apr
		3	Product:	BP	May
		4	Pricing, Distribution Channels and Physical Distribution	RP	May
		5	Promotion and Recent developments in marketing:	BP	June
		CC 2.2 Chg	Internal Assessment		July
		M-I	C U Examination		July
1ST	Human Resource Management	1	Nature and Scope	RS	Apr
		2	Human Resource Planning	RP	Apr
		3	Recruitment and Selection	RS	May
		4	Training and Development	RS	May
		5	Job Evaluation and Performance Appraisal	RP	June
		CC 2.2 Chg	Internal Assessment		July
		M-II	C U Examination		July

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1ST	COST AND MANAGEMENT ACCOUNTING – I	1	Introduction Definition, Cost concepts, terms and classification of costs: Cost. Costing Methods and Techniques	RS	Apr
		2	Material Costs :Purchase of materials: Storage of materials: Materials control: Methods of Pricing Material Issues: Treatment of Normal and Abnormal Loss of Materials	SM	Apr
		3	Employee Cost and Incentive Systems	RS	May
		4	Overhead and Cost Statement		July
		5	Cost Book Keeping :Non-Integrated System: Reconciliation:	RP	June
		6	Costing Method :Job Costing ,Contract Costing ,Service Costing and Output Costing-Process Costing:	SS	June
			Internal Assessment		July
			C U Examination		July

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SEMESTER-II(GEN)

YEAR	PAPER	UNIT	TOPIC	TEACHER	MONTH
1ST	E-COMMERCE	1	Introduction	AS	Apr
		2	E-CRM and SCM	RP	Apr
		3	Digital Payment	AS	May
		4	ERP	RP	May-June
		5	New Trends in E-Commerce	AS	June
	GE 2.1 Chg		Internal Assessment		July
			C U Examination		July
1ST	B Communication	1	Introduction	SM	Apr
		2	Types of Communication	SM	May
		3	Tools of Communication	SM	Jun
		4	Drafting	SS	Apr-June
			Internal Assessment		July
			C U Examination		July
1ST	Company Law	1	Introduction To Company Law	BP	Apr
		2	FORMATION OF A COMPANY[	BP	Apr
		3	COMPANY ADMINISTRATION[	BP	May
		4	SHARE CAPITAL & DEBENTURE[	BP	May
		5	CORPORATE MEETINGS	BP	June
	CC2.1 Chg		Internal Assessment		July
			C U Examination		July
1ST	Marketing Management	1	Introduction	BP	Apr
		2	Consumer Behaviour and Market segmentation:	RP	Apr
		3	Product:	BP	May
		4	Pricing, Distribution Channels and Physical Distribution	RP	May
		5	Promotion and Recent developments in marketing:	BP	June
		CC 2.2 Chg	Internal Assessment		July
		M-I	C U Examination		July
1ST	Human Resource Management	1	Nature and Scope	RS	Apr
		2	Human Resource Planning	RP	Apr
		3	Recruitment and Selection	RS	May
		4	Training and Development	RS	May
		5	Job Evaluation and Performance Appraisal	RP	June
		CC 2.2 Chg	Internal Assessment		July
		M-II	C U Examination		July
1ST	COST AND MANAGEMENT ACCOUNTING	1	Introduction Definition, Cost concepts, terms and classification of costs: Cost. Costing Methods and Techniques	RP	Apr

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	– I	2	Material Costs :Purchase of materials: Storage of materials: Materials control: Methods of Pricing Material Issues: Treatment of Normal and Abnormal Loss of Materials	SS	Apr
		3	Employee Cost and Incentive Systems	RP	May
		4	Overhead and Cost Statement	SM	May
		5	Cost Book Keeping :Non-Integrated System: Reconciliation:	RS	June
		6	Costing Method :Job Costing ,Contract Costing ,Service Costing and Output Costing-Process Costing:	SM	June
		CC 2.1Ch	Internal Assessment		July
			C U Examination		July

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SEMESTER-III (HONS)

SEM-III (H)-2020-2021					
YEAR	PAPER	UNIT	TOPIC	TEACHER	MONTH
2ND	Financial Accounting II	1	Partnership accounts-I	RS	AUG-SEPT
	CC3.1 Ch	2	Partnership accounts-II	RS	NOV-DEC
		3	Branch accounting	SM	AUG
			Hire purchase and Installment payment system	SM	SEPT
		4	Departmental accounts	RS	FEB
		5	Investment Accounts	SM	NOV-DEC
		6	Business Acquisition and Conversion of partnership into limited company	SM	JAN-FEB
			Internal Assessment		MAR
			C U Examination		MAR

SEM-III (H)	Indian Financial System	1	Financial System and Its Components	SM	AUG-SEPT
YEAR	CC3.2 Ch	2	Financial Markets	RP	AUG-SEPT
2ND			Money Market	RP	NOV-DEC
			Capital Market:	RP	JAN-FEB
		3	Financial Institutions	SM	NOV
		4	Financial Services	SM	DEC
		5	Investors' Protection	SM	JAN-FEB
			Internal Assessment		MAR
			C U Examination		MAR

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SEM-III (H)	Statistics	1	Correlation and Association	AA	AUG
YEAR	GE 3.3 Chg	2	Regression Analysis	AA	SEPT
2ND		3	Index Numbers	AA	NOV
		4	Time Series Analysis	AA	DEC
		5	Probability Theory	AA	JAN-FEB
			Internal Assessment		MAR
			C U Examination		MAR

SEMSTER-3(GEN)

SEM-III (G)-2020-2021					
YEAR	PAPER	UNIT	TOPIC	TEACHER	MONTH
2ND	Financial Accounting II	1	Partnership accounts-I	SS	AUG-SEPT
	CC3.1 Ch	2	Partnership accounts-II	SS	NOV-DEC
		3	Branch accounting	BP	AUG
			Hire purchase and Installment payment system	BP	SEPT
		4	Departmental accounts	BP	FEB
		5	Investment Accounts	SS	NOV-DEC
		6	Business Acquisition and Conversion of partnership into limited company	SS	JAN-FEB
			Internal Assessment		MAR
			C U Examination		MAR

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SEM-III (G)	Statistics (Module-II)	1	Correlation and Association	AA	AUG
YEAR	GE 3.3 Chg	2	Regression Analysis	AA	SEPT
2ND		3	Index Numbers	AA	NOV
		4	Time Series Analysis	AA	DEC
		5	Probability Theory	AA	JAN-FEB
			Internal Assessment		MAR
			C U Examination		MAR

SEMESTER-IV(HONS)

SEM-IV (H)					
YEAR	PAPER	UNIT	TOPIC	TEACHER	MONTH
2ND	TAXATION-I	1a	Basic Concepts and Definitions under IT Act	SS	Apr
	CC 4.1 Ch	b	Residential Status and Incidence of Tax	SS	Apr
		c	Incomes which do not form part of Total Income,	SS	Apr
			Except sections 10A, 10AA, 10B, 10BA& Agricultural Income	SS	Apr
		2	Heads of Income and Provisions governing Heads of Income	SS	May
		a	Income from salary	RP	Apr
		b	Income from house prorety	RP	May
		3	Heads of Income and Provisions governing Heads of Income		
		a	Profits and Gains of Business and Profession	RP	June
		b	Capital Gains	RP	June
		c	Income from Other Sources	SS	May
		4a	Income of other Persons included in Assessee's Total Income		
		b	Set off and Carry Forward of Losses	SS	June
		c	Deductions from Gross Total Income	RP	May
		d	Rebate u/s 87A	SS	June
			Internal Assessment		July
			C U Examination		July
2ND	COST & MGT	1	Joint Prdouct & by product	SM	Apr
	CC 4.2 Ch	2	Activity Based Costing	RS	May
		3	Budget and Budgetary Control;	RS	Jun
		4	Standard Costing;	RS	Apr
		5	CVP Analysis ,Marginal Costing and Management Decisions	SM	May
		6	Short-term Decision Making	SM	Jun
			Internal Assessment		July
			C U Examination		July
2ND	EDB	1	Introduction:	BP	Apr

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	CC 4.1 Chg	2	Public and private system of stimulation, support and sustainability of entrepreneurship. Requirement, availability and access to finance, marketing assistance, technology, industrial accommodation, Role of industries/entrepreneur's associations and self-help groups, The concept, role and functions of business incubators, angel investors, venture and capital and private equity fund.	BP	Apr
		3	Sources of business ideas and tests of feasibility. Significance of writing the business plan/project proposal; Contents of business plan/ project proposal; Designing business processes, location, layout, operation, planning & control; preparation of project report	BP	May
		4	Mobilizing Resources - Mobilizing resources for start-up. Accommodation and utilities; Preliminary contracts with the vendors, suppliers, bankers, principal customers; Basic startup problems;	BP	Jun
			Internal Assessment		Jul
			C U Examination		Jul
2ND	Business Ethics	1	Introduction – Meaning - Scope – Types of Ethics – features – Factors influencing Business Ethics – significance of Business Ethics - Arguments for and against business ethics- Basics of business ethics - Corporate Social Responsibility and Business Ethics	BP	Apr
	CC 4.1 Chg	2	Principles of Business Ethics Introduction – Meaning – Element – Ethics, Morale, Business ethics, Ethical dilemma [basic idea, features and significance of each of element]	BP	Apr
		3	Ethics in Management Introduction – Ethics in HRM – Ethics in Marketing —- Ethics in Accounting and finance -Work place Ethics - Value and Ethics.	BP	May
		4	Meaning – Role – Functions – Impact of Corporate Culture – Globalization and cross culture issues in ethics, Corporate Code of ethics	BP	Jun
		5	Ethics & Corporate Governance Concept of Corporate Governance, Scope, Reports on Corporate Governance and its benefits and limitations-- Corporate Governance and Business Ethics [Brief Concept]	BP	Jun
			Internal Assessment		JULY
			C U Examination		JULY

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SEMESTER-IV(GEN)

SEM-IV (G)					
YEAR	PAPER	UNIT	TOPIC	TEACHER	MONTH
2ND	TAXATION-I	1a	Basic Concepts and Definitions under IT Act	SS	Apr
	CC 4.1 Ch	b	Residential Status and Incidence of Tax	SS	Apr
		c	Incomes which do not form part of Total Income,	SS	Apr
			Except sections 10A, 10AA, 10B, 10BA& Agricultural Income	SS	Apr
		2	Heads of Income and Provisions governing Heads of Income	SS	May
		a	Income from salary	RP	Apr
		b	Income from house prorety	RP	May
		3	Heads of Income and Provisions governing Heads of Income		
		a	Profits and Gains of Business and Profession	RP	June
		b	Capital Gains	RP	June
		c	Income from Other Sources	SS	May
		4a	Income of other Persons included in Assessee's Total Income		
		b	Set off and Carry Forward of Losses	SS	June
		c	Deductions from Gross Total Income	RP	May
		d	Rebate u/s 87A	SS	June
			Internal Assessment		July
			C U Examination		July
2ND	COST & MGT	1	Joint Prdouct & by product	SM	Apr
	CC 4.2 Ch	2	Activity Based Costing	RS	May
		3	Budget and Budgetary Control;	RS	Jun
		4	Standard Costing;	RS	Apr
		5	CVP Analysis ,Marginal Costing and Management Decisions	SM	May
		6	Short-term Decision Making	SM	Jun
			Internal Assessment		July
			C U Examination		July
2ND	EDB	1	Introduction:	BP	Apr
	CC 4.1 Chg	2	Public and private system of stimulation, support and sustainability of entrepreneurship. Requirement, availability and access to finance, marketing assistance, technology, industrial accommodation, Role of industries/entrepreneur's associations and self-help groups, The concept, role and functions of business incubators, angel investors, venture and capital and private equity fund.	BP	Apr

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		3	Sources of business ideas and tests of feasibility. Significance of writing the business plan/project proposal; Contents of business plan/ project proposal; Designing business processes,location, layout, operation, planning & control; preparation of project report	BP	May
		4	Mobilizing Resources - Mobilizing resources for start-up. Accommodation and utilities;Preliminary contracts with the vendors, suppliers, bankers, principal customers; Basic startup problems;	BP	Jun
			Internal Assessment		Jul
			C U Examination		Jul
2ND	Business Ethics	1	Introduction – Meaning - Scope – Types of Ethics – features – Factors influencing Business Ethics – significance of Business Ethics - Arguments for and against business ethics- Basics of business ethics - Corporate Social Responsibility and Business Ethics	BP	Apr
	CC 4.1 Chg	2	Principles of Business Ethics Introduction – Meaning – Element – Ethics, Morale, Business ethics, Ethical dilemma [basic idea, features and significance of each of element]	BP	Apr
		3	Ethics in Management Introduction – Ethics in HRM – Ethics in Marketing — Ethics in Accounting and finance -Work place Ethics - Value and Ethics.	BP	May
		4	Meaning – Role – Functions – Impact of Corporate Culture – Globalization and cross culture issues in ethics, Corporate Code of ethics	BP	Jun
		5	Ethics & Corporate Governance Concept of Corporate Governance, Scope, Reports on Corporate Governance and its benefits and limitations-- Corporate Governance and Business Ethics [Brief Concept]	BP	Jun
			Internal Assessment		JULY
			C U Examination		JULY

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SEMESTER-V(HONS)

SEM-V (H)-2020-2021					
YEAR	PAPER	UNIT	TOPIC	TEACHER	MONTH
3RD	TAXATION-II	1	Computation of Total Income and Tax Payable		
	CC 5.2 Ch	a	Rate of tax applicable to different assesses (except corporate assessee)	SS	Aug
		b	Computation of tax liability of an individual, Firm (excluding application of	SS	Sep
		2	TAX MANAGEMENT		
		a	Provision for Filing of Return Date of filing of return, relevant forms of return, different types of returns,return by whom to be signed, PAN, TAN	RP	Aug
		b	Assessment of Return- Self assessment u/s140A, Summary assessment u/s 143(1), Scrutiny assessment u/s 143(3) and Best judgement assessment u/s 144.	RP	Aug
		c	Advance Tax--Who is liable to pay, due dates and computation of advance tax (excluding corporate assessees)	RP	Sep
		d	Interest & Fees-- Section 234A, 234B, 234C, 234F (simple problems on interest and fees)	RP	Sep
		e	TDS-- Provisions regarding TDS from salary, interest on securities, horse racing,	RP	Oct
		3	Basic Concepts of Indirect Tax and overview of GST	SS	Nov
		4	Taxable event ,supply –Concept, time, value and place, charge of GST:	SS	Dec
		5	Input And Out Put Tax Computation, Input Tax Credit (ITC) and Composite Scheme under GST:	SS	Jan-Feb
		6	Customs		
			Basic concepts, Taxable event, Territorial water, Indian customs water, Goods,	RP	Nov
			Types of Customs duties – Basic, Additional, Protective, Safeguard, Counter-	RP	Dec
			veiling duty on subsidised goods, Anti Dumping, Valuation of Custom Duty.	RP	Jan-Feb
			Intrnal Assessment		Mar
			C U Examination		Mar

SEM-V (H)					
YEAR	PAPER	UNIT	TOPIC	TEACHER	MONTH
3RD	Auditing & Assurance	1	CONCEPT, NEED AND PURPOSE OF AUDIT	SM	Aug-Sep
		2	AUDIT PROCEDURES AND TECHNIQUES	SS	Aug-Sep

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		3	AUDIT RISK AND INTERNAL CONTROL SYSTEM	SM	Oct-Nov
		4	VOUCHING, VERIFICATION AND VALUATION	SS	Oct-Nov
		5	COMPANY AUDIT	SM	Dec-Jan
		6	AUDIT REPORT AND CERTIFICATE	SS	Dec-Jan
		7	OTHER THRUST AREAS	SM	Feb
			Intrnal Assessment		Mar
	CC 5.1 Ch		C U Examination		Mar
	CORPORATE ACCOUNTING	1	Company –Introduction ,Accounting for Shares & debentures	RS	Aug-Sep
		2	Buy Back of Securities ,Redemption of Preference Shares	RP	Aug-Sep
		3	Company Final,Accounts	RS	Oct-Dec
		4	Redemption of Debenture	RP	Oct
		5	Valuation--Goodwill & Shares	RS	Jan-Feb
		6	Amalgamation, Absorption and Reconstruction–Internal reconstruction	RP	Nov-Feb
			Internal Assessment		Mar
	DSE 5.2 A		C U Examination		Mar
	Economics				
	DSE 5.1A		Introduction Concepts and variables of Macroeconomics	MK	Aug
			National Income Accounting	MK	Aug-Sept
			Determination of Equilibrium Level of National Income Simple Keynesian Model	MK	Sept-Oct
			Commodity market and Money market equilibrium – IS-LM	DM	Oct-Nov
			Money, Inflation and Unemployment	DM	Nov-Dec

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SEMESTER-V(GEN)

SEM-V (G) 2020-2021					
YEAR	PAPER				
	TAXATION-II	UNIT	TOPIC	TEACHER	MONTH
		1	Computation of Total Income and Tax Payable		
		a	Rate of tax applicable to different assesses (except corporate assessee)	SS	Aug
		b	Computation of tax liability of an individual, Firm (excluding application of	SS	Sep
		2	TAX MANAGEMENT		
		a	Provision for Filing of Return Date of filing of return, relevant forms of return, different types of returns,return by whom to be signed, PAN, TAN	RP	Aug
		b	Assessment of Return- Self assessment u/s140A, Summary assessment u/s 143(1), Scrutiny assessment u/s 143(3) and Best judgement assessment u/s 144.	RP	Aug
		c	Advance Tax--Who is liable to pay, due dates and computation of advance tax (excluding corporate assessees)	RP	Sep
3RD	CC 5.2 Ch	d	Interest & Fees-- Section 234A, 234B, 234C, 234F (simple problems on interest and fees)	RP	Sep
		e	TDS-- Provisions regarding TDS from salary, interest on securities, horse racing,	RP	Oct
		3	Basic Concepts of Indirect Tax and overview of GST	SS	Nov
		4	Taxable event ,supply –Concept, time, value and place, charge of GST:	SS	Dec
		5	Input And Out Put Tax Computation, Input Tax Credit (ITC) and Composite Scheme under GST:	SS	Jan-Feb
		6	Customs		
			Basic concepts, Taxable event, Territorial water, Indian customs water, Goods,	RP	Nov
			Types of Customs duties – Basic, Additional, Protective, Safeguard, Counter-	RP	Dec
			veiling duty on subsidised goods, Anti Dumping, Valuation of Custom Duty.	RP	Jan-Feb
			Intrnal Assessment		Mar
			C U Examination		Mar
YEAR	PAPER				
3RD	Auditing & Assurance	UNIT	TOPIC	TEACHER	MONTH

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		1	CONCEPT, NEED AND PURPOSE OF AUDIT	SM	Aug-Sep
		2	AUDIT PROCEDURES AND TECHNIQUES	SS	Aug-Sep
		3	AUDIT RISK AND INTERNAL CONTROL SYSTEM	SM	Oct-Nov
		4	VOUCHING, VERIFICATION AND VALUATION	SS	Oct-Nov
		5	COMPANY AUDIT	SM	Dec-Jan
		6	AUDIT REPORT AND CERTIFICATE	SS	Dec-Jan
		7	OTHER THRUST AREAS	SM	Feb
	CC 5.1 Ch		Intrnal Assessment		Mar
			C U Examination		Mar
	CORPORATE ACCOUNTING				
		1	Company –Introduction ,Accounting for Shares & debentures	RS	Aug-Sep
		2	Buy Back of Securities ,Redemption of Preference Shares	RP	Aug-Sep
		3	Company Final,Accounts	RS	Oct-Dec
		4	Redemption of Debenture	RP	Oct
		5	Valuation--Goodwill & Shares	RS	Jan-Feb
		6	Amalgamation, Absorption and Reconstruction–Internal reconstruction	RP	Nov-Feb
	DSE 5.2 A		Intrnal Assessment		Mar
			C U Examination		Mar

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SEMSETER-VI (HONS)

YEAR	PAPER	UNIT	TOPIC	TEACHER	MONTH
3RD	FM	1	Introduction	RS	Apr
	DSE6.2A		Basic Concepts	RS	Apr
		2	Sources of Finance and Cost of Capital	RS	May
		3	Leverage and Capital Structure Theories	RS	June
		4	Working Capital Management (1)	SS	Apr
		5	Working Capital Management (2)	SS	Apr
		6	Capital Expenditure Decisions (1)	SS	May
		7	Capital Expenditure Decisions (2)	SS	Jun
		8	Dividend Decisions	SS	Jun
			Internal Assessment		JULY
			C U Examination		JULY
	FRFSA				
	DSE6.1A	1	Holding Company	RP	Apr
		2	Standards Accounting	SM	Apr
		3	Fund Flow Statemnt	RP	May
		4	Cash Flow Statemnt	RP	June
		5	Introduction to Financial Statemnts Analysis	SM	May
		6	Accounting Ratios for FSA	SM	Jun
			Internal Assessment		JULY
			C U Examination		JULY
	COMPUTERISED ACCOUNTING SYSTEM AND E-FILING OF INCOMETAX	SEC6.1Chg			
		1	Computerized Accounting Package: Using Generic Software		
		(a)	Company creation, ledger creation, order processing, accounting voucher, inventory voucher, memorandum voucher, invoicing, multiple godown handling, Transfer ofmaterials across godowns, Bank Reconciliation	AS	Apr
		(b)	Cost Centre, Cost Category, Bill of Material (BoM), Budget and Controls	AS	Apr
		(c)	Payroll Accounting	AS	Apr
		(d)	TDS, GST	AS	May
		(e)	Back up & Restore, Export and Import data	AS	May
		2	Designing Computerized Accounting System	AS	June
		(a)	Introduction to DBMS Package – Table, Query, Form and Report	AS	June

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		(b)	Designing Computerized Accounting System using DBMS Creating a voucher entry Form, Preparing ledgers, trial Package balance, profit & loss a/c, and balance sheet with Form wizard and Report	AS	June
		(c)	Designing Payroll System for Accounting using Form, Query, and Report	AS	June
		3	E-filing of Tax return		
		(a)	Preparation and submission of the Income Tax Return (ITR) offline/online for individual taxpayer [e-filing without using DSC and with using DSC, EVC]	SS	Apr
		(b)	View form 26AS,Upload return, View e-file returns, e-verification	SS	Apr
		(c)	Use of e-tax calculator (including interest calculation u/s 234A, 234B, 234C)	SS	May
		(d)	E-Pay tax (Challan No./ITNS 280, ITNS 281)	SS	Jun
		(e)	Preparation and submission online form 10E [Relief u/s 89(1)]	SS	Jun
			Internal Assessment		JULY
			C U Examination		JULY
	Project Work (Project Report - 50 + Viva-Voce Examination - 50)		Project Report Related work/Class		Apr-June
	CC6.1Ch				
					JULY
			Viva-Voce Examination		JULY

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SEMESTER-VI(GEN)

YEAR	PAPER	UNIT	TOPIC	TEACHER	MONTH
3RD	FM		Introduction	RS	Jan
	DSE6.2A	1	Basic Concepts	RS	Feb
		2	Sources of Finance and Cost of Capital	RS	Mar
		3	Leverage and Capital Structure Theories	RS	Apr,May
		4	Working Capital Management (1)	SS	Jan
		5	Working Capital Management (2)	SS	Feb
		6	Capital Expenditure Decisions (1)	SS	Mar
		7	Capital Expenditure Decisions (2)	SS	Apr
		8	Dividend Decisions	SS	MAY
			Internal Assessment		May
			C U Examination		June
	FRFSA				
	DSE6.1A	1	Holding Company	RP	Jan
		2	Standards Accounting	SM	Feb
		3	Fund Flow Statemnt	RP	Feb
		4	Cash Flow Statemnt	RP	Mar
		5	Introduction to Financial Statemnts Analysis	SM	Apr
		6	Accounting Ratios for FSA	SM	May
			Internal Assessment		May
			C U Examination		June
	COMPUTERISED ACCOUNTING SYSTEM AND E-FILING OF INCOMETAX SEC6.1Chg				
		1	Computerized Accounting Package: Using Generic Software		
		(a)	Company creation, ledger creation, order processing, accounting voucher, inventory voucher, memorandum voucher, invoicing, multiple godown handling, Transfer ofmaterials across godowns, Bank Reconciliation	AS	Jan
		(b)	Cost Centre, Cost Category, Bill of Material (BoM), Budget and Controls	AS	Jan
		(c)	Payroll Accounting	AS	Feb
		(d)	TDS, GST	AS	Feb
		(e)	Back up & Restore, Export and Import data	AS	Mar
		2	Designing Computerized Accounting System	AS	Mar
		(a)	Introduction to DBMS Package – Table, Query, Form and Report	AS	Apr
		(b)	Designing Computerized Accounting System using DBMS Creating a voucher entry Form, Preparing ledgers, trial Package balance, profit & loss a/c, and balance sheet with Form wizard and Report	AS	Apr
		(c)	Designing Payroll System for Accounting using Form, Query, and Report	AS	May
		3	E-filing of Tax return		

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		(a)	Preparation and submission of the Income Tax Return (ITR) offline/online for individual taxpayer [e-filing without using DSC and with using DSC, EVC]	SS	Apr
		(b)	View form 26AS,Upload return, View e-file returns, e-verification	SS	Apr
		(c)	Use of e-tax calculator (including interest calculation u/s 234A, 234B, 234C)	SS	May
		(d)	E-Pay tax (Challan No./ITNS 280, ITNS 281)	SS	Jun
		(e)	Preparation and submission online form 10E [Relief u/s 89(1)]	SS	Jun
			Internal Assessment		Jul
			C U Examination		Jul

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B.SC COMPUTER SCIENCE (GENERAL)
2019-2020

ACADEMIC PLAN 2019-20

1	Computer Science (General) **Semester I**	1(Theoretical)	1	General Concepts Introduction, computer hardware & software, evolution, Generations of programming languages, Virus, Multimedia, Object Oriented Paradigm.	RP	July - November
1			2	Digital logic Design Number System, Combinational Logic.	RP	July - September
1			3	Sequential Logic.	RP	October November
1				**INTERNAL ASSESMENT**		
1		2(Practical)	1	Word processing, Document Preparation & Presentation and Spreadsheet.	MKB	August November
1			2	Web designing by HTML.	PP	August October
1			3	Projects using HTML	PP	November
				INTERNAL ASSESMENT		
2	**Semester II**	**2(Theoretical)**	**1**	Introduction: Algorithms, ADT.	PP	January-Feb
			2	Arrays: One dimensional and Two Dimensional Arrays, Row Major and Column Major Forms.	PP	January - Feb
			3	Linked List: Singly and Doubly Linked List; Operations like Insertion, Deletion. Searching.	PP	February
			4	Stacks and Queues: Concepts of Stack and Queue; Insertion and Deletion of Elements;	RP	April
			5	Array and Linked Representation: Prefix, Infix and Postfix Notation; Postfix Expression Evaluation, Infix to Postfix.	RP	May

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			6	Searching: Algorithms of Sequential, Binary Search Techniques.	PP	March
			7	Sorting: Bubble Sort, Selection Sort, Insertion Sort, Quick Sort, Merge Sort, Heap Sort.	RP	April
				INTERNAL ASSESSMENT		
2		**2 (Practical)**	**1**	Basic Structure: Character set, keywords, identifiers, constants, variables and type declaration. Sample programs, preprocessor. Operators: Arithmetic, Relational, Logical, Assignment, Increment and Decrement, Conditional, comma; operator precedence and associativity; arithmetic expression-evaluation and type conversion. Character I/O, Escape sequence and formatted I/O.	MKB	Jan - Feb
				Branching and Looping: if, if-else, while, do-while, for. Arrays: One-dimensional and 2-dimensional. Different types of uses. String handling with arrays – read and write, concatenation, comparison, string functions. User defined functions: Need; Call by Reference and Call by value; return values and types; nesting of functions; recursion. Structures: Initialization; arrays of a structure, arrays within structures, structure within	MKB	Feb - Mar

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				structure, size of structures, Dynamic Storage Allocation.		
				Pointers: Declaration and initialization; operators; pointer arithmetic; accessing variables, pointer & arrays, strings, functions, Linked lists, concepts and use in C with different examples. File handling: Opening & Closing, I/O. Other Features: Bit level operations, macro definitions, union, command line arguments	MKB	Mar - Apr
				INTERNAL ASSESSMENT		
3	**Semester III**	3(Theoretical)	1	Computer Architecture and Organization Central Processing Unit (CPU) ALU.	RP	July
			2	Control Unit ,I/O, Memory	RP	August
			3	Operating System Operating System, Process, Process Scheduling.	RP	Septemb er – October
			4	Memory Management.	RP	November
				INTERNAL ASSESSMENT		
3		3(Practical)	1	Concepts of python programming. Basics of oops, pop programming paradigm	PP	August
			2	Making flowcharts and algorithms. Introduction to python. Writing simple python programs and executing them	PP	September

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			3	Looping, branching statements, library functions, user defined function, recursion, lists.	PP	October – November
				INTERNAL ASSESSMENT		
4	**Semester IV**	**4 (Theoretical)**	**1**	System Software: Introduction: Different System Softwares Introduction to Operating Systems: What is OS? User mode, Kernel mode, Mode Switching, Multiprogramming, Multitasking OS, Concepts of processes, Files, Shell, System calls, Time sharing systems	**PP**	**January -February**
			2	Types of operating systems: Operating systems for personal computers & workstations. Concepts of Synchronization: Critical Regions, Semaphores, Monitor Inter Process Communication Mechanism.	**PP**	**January -February**
			3	Processor Management: Scheduling and its types, Priority Queue;	**RP**	**March - April**
			4	Deadlock: Definition, Prevention, Avoidance, Detection, Recovery.	**PP**	**March April**
			5	I/O Management: Device and Device Controllers, Interrupt Handlers and Device drivers.	**PP**	**May**
			6	Memory Management: Logical & Physical memory; Contiguous allocation, Paging, Segmentation,	**RP**	**May**

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				Swapping, Real and Virtual memory, Page Replacement Techniques.		
			7	File Systems: Files and Directories, File Servers, Security and Protection.	**PP**	**May**
				INTERNAL ASSESSMENT		
4		**4 (Practical)**	**1**	**Shell Programming: Concept and simple programming problems.**	**MKB**	**Jan - Apr**
			2	**Linux system calls, IPC problems, use of semaphore for synchronization problems.**		**May - June**
				INTERNAL ASSESSMENT		
3	**3RD YEAR**	5(Theoretical)	1	Communication and Computer Networks - Communication Concepts.	RP	August
3			2	Transmission media Audio and Video communication systems.	RP	September
3			3	Computer Networks	RP	October
3			4	Architecture, LAN	RP	November
3				**INTERNAL ASSESSMENT**		
3		6(Practical)	1	Unix / Linux and Shell Programming Files & Directories	MKB	August November
3			2	Shell Programming	MKB	December February
3			3	Programming in Visual Basic Basic Features	RP	August October
3			4	ODBC driver	RP	November
3			5	MFC based multimedia applications	RP	December
3				**INTERNAL ASSESSMENT**		

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ACADEMIC PLAN
2019-20

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Economics Honours (ECOA)

Semester- I

Economics Core Course-I: ECO-A-CC-1-1-TH-TU
Introductory Microeconomics

Faculty: Madhurima Koley (MK) & Deepro Majumder (DM)

Sl No	Topic	Faculty	No. of lecture	Month
1	Exploring the subject matter of Economics	MK	10	July-Aug
2	Demand and Supply: How Markets Work	MK	10	Aug-Sept
3	Market and Adjustments	MK	10	Sept-Oct
4	Market Sensitivity and Elasticity	MK	12	Oct-Nov
5	Government Intervention	MK	8	Nov- Dec
6	Utilitarian Approach	DM	25	July-Sept

Economics Core Course II: ECO-A-CC-1-2-TH-TU
Mathematical Methods in Economics-I

Faculty: Shumonika Gangoly (SG) & Sayan Kumar Gupta (SKG)

Sl No	Topic	Faculty	No. of lecture	Month
1	Preliminaries	SG	10	July- Aug
2	Functions of one real variable	SG	10	Aug- Sep
3	Single variable optimization	SG	10	November
4	Integration of functions	SKG	10	November
5	Matrix Algebra	SKG	20	July-Aug
6	Game Theory	SKG	15	Aug- Sep

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Semester- II

Economics Core Course III: ECO-A-CC-2-3-TH-TU
Introductory Macroeconomics

Faculty: Madhurima Koley (MK) & Deepro Majumder (DM)

Sl No	Topic	Faculty	No. of lecture	Month
1	National Income Accounting	MK	20	Jan-Mar
2	Income Determination in the Short Run (Part-I) :The Simple Keynesian Model in a Closed Economy	DM	18	Jan-Mar
3	The Classical system	DM	18	Mar-May
4	Macroeconomic Foundations –I	MK	19	Mar-May

Economics Core Course IV: ECO-A-CC-2-4-TH-TU
Mathematical Methods in Economics-II

Faculty: Shumonika Gangoly (SG) & Sayan Kumar Gupta (SKG)

Sl No	Topic	Faculty	No. of lecture	Month
1	Function of several variables	SKG	14	Jan-Mar
2	Multi-variable optimization	SG & SKG	35	Jan-Mar& May
3	Difference Equations	SG	12	Apr- May
4	Differential Equations	SKG & SG	14	Mar- Apr & May

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Semester- III

Economics Core Course V: ECO-A-CC-3-5-TH-TU
Intermediate Microeconomics –I

Faculty: Shumonika Gangoly (SG) & Sayan Kumar Gupta (SKG)

Sl No	Topic	Faculty	No. of lecture	Month
1	Theories of Consumer Behaviour and Applications	SKG	17	July- Sept
2	Production and Costs	SG	20	July- Sept
3	The Firm and Perfect Market Structure	SG	20	Sept-
4	Input Market in Perfect Competition	SKG	18	Nov-Dec

Economics Core Course VI: ECO-A-CC-3-6-TH-TU
Intermediate Macroeconomics-I

Faculty: Madhurima Koley (MK) & Deepro Majumder (DM)

Sl No	Topic	Faculty	No. of lecture	Month
1	Income Determination in the Short-run (Part-II) : The IS-LM Model	DM	14	July- Aug
2	Aggregate Demand and Aggregate Supply- the Complete Keynesian Model	DM	14	Aug-Sept
3	Keynes vs. Classics	DM	10	Sept-Oct
4	Money Supply, Monetary Policy and Government Budgetary Operations	MK	17	Aug-Sept
5	Inflation, Unemployment and Expectations	MK	20	Nov-Dec

Economics Core Course VII: ECO-A-CC-3-7-TH-TU
Statistical Methods for Economics

Faculty: Madhurima Koley (MK) & Sayan Kumar Gupta (SKG)

Sl No	Topic	Faculty	No. of lecture	Month
1	Introduction and Overview	MK	6	July

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2	Descriptive Statistics	MK & SKG	13	Aug & Sept
3	Elementary Probability Theory	MK	10	Sept-Oct
4	Probability Distributions	MK	18	Oct-Nov
5	Sampling	SKG	14	Sept-Oct
6	Statistical inference	SKG	14	Oct-Nov

Skill Enhancement Course I: ECO-A-SEC-3-A(1)-TH
Data Analysis [DA]

Faculty: Madhurima Koley (MK)

Sl No	Topic	Faculty	No. of lecture	Month
1	Collection and representation of data	MK	12	Aug-Sept
2	Indian Official Statistics (Basic concepts)	MK	18	Nov-Dec

Skill Enhancement Course I: ECO-A-SEC-3-A(1)-TH
Rural Development [RD]

Faculty: Deepro Majumder (DM)

Sl No	Topic	Faculty	No. of lecture	Month
1	Aspects of Rural Development	DM	6	Sept
2	Panchayats and Rural Development	DM	5	Sept
3	Rural Credit and Self Help Groups(SHGs)	DM	11	Oct-Nov
4	Critical Evaluation of Selected Government Programmes and Rural Development	DM	8	Nov

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Semester- IV

Economics Core Course VIII: ECO-A-CC-4-8-TH-TU
Intermediate Microeconomics II

Faculty: Shumonika Gangoly (S.G) & Sayan Kumar Gupta (S.K.G)

Sl No	Topic	Faculty	No. of lecture	Month
1	Imperfect Market Structure	SG & SKG	40	Jan-Mar & Mar- Apr
2	Input market under Imperfect Competition	SG	5	Mar-Apr
3	General Equilibrium, Efficiency and Welfare	SKG & SG	30	Apr-May & May- June

Economics Core Course IX: ECO-A-CC-4-9-TH-TU
Intermediate Macroeconomics II

Faculty: MadhurimaKoley (MK) & Deepro Majumder (DM)

Sl No	Topic	Faculty	No. of lecture	Month
1	Basic Tenets of New Classical and New Keynesian Theories	DM	20	Jan-Feb
2	Macroeconomic Foundations –II	MK	20	Jan-Feb
3	Economic Growth	DM	35	Feb- Mar

Economics Core Course X: ECO-A-CC-4-10-TH-TU
Introductory Econometrics

Faculty: Madhurima Koley (MK) & Sayan Kumar Gupta (SKG)

Sl No	Topic	Faculty	No. of lecture	Month
1	Nature and Scope of Econometrics	SKG	4	Jan
2	Classical Linear Regression Model (Simple linear regression and multiple linear regression):part 1	SKG	15	Jan-Feb

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3	Classical Linear Regression Model (Simple linear regression and multiple linear regression):part 2	SKG	10	March
4	Statistical inference in linear regression model	MK	26	Mar-Apr
5	Violations of Classical Assumptions	MK	12	Apr-May
6	Specification Analysis	MK	8	May-June

Skill Enhancement Course II: ECO-A-SEC-4-B(2)-TH
Research Methodology

Faculty: Madhurima Koley (MK) & Sayan Kumar Gupta (SKG)

Sl No	Topic	Faculty	No. of lecture	Month
1	Methodological Issues 1	SKG	10	Feb- Mar
2	Methodological Issues 2	MK	20	Mar-Apr

Skill Enhancement Course II: ECO-A-SEC-4-B(2)-TH
Managerial Economics

Faculty: Shumonika Gangoly (SG) & Deepro Majumder (DM)

Sl No	Topic	Faculty	No. of lecture	Month
1	Demand, Cost and Profit Analysis	DM	6	Mar – Apr
2	Pricing Policies and practices	DM	3	April
3	Capital Budgeting	DM	8	Apr-May
4	Cost of capital	DM	5	May-June
5	Inventory Management	SG	8	May-June

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Third Year (1+1+1 System)

Paper 5A – International Economics;

Module Number	Topic	Faculty	Month☐
10	Tariff & Import Quotas in presence of monopoly.	DM	Nov-Dec
	Balance of payment accounts; national income accounting in an open economy; monetary account		
11	Determination of national Income, multiplier analysis, the transfer problem, introduction of foreign country and repercussion effect.	DM	Jan
12	Fixed and Flexible Exchange rates: Adjustments, Demand & Supply of foreign exchange, Effects on domestic prices and TOT, Marshall-Lerner condition, J-curve effect.	DM	Jan-Feb

Paper 5B – Public Finance

Module Number	Topic	Faculty	Month☐
13	The nature, scope and significance of public economics	MK	Aug
	Different forms of government – unitary and federal. Tiers of government in the federal form- Central, State, Local (Introductory discussion with examples).		
14	Functions of Government - Economic functions -allocation, distribution and stabilization.	MK	Aug
	Regulatory functions of the Government and its economic significance		

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15	Federal Finance: Different layers of the government, Inter governmental transfer— horizontal vs. vertical equity. Grants—merits and demerits of various types of grants—unconditional vs. conditional grants, tied grants, matching grants.	MK	Sep
16	Concept of public goods—characteristics, national vs. local public goods, determination of provision of public good Externality, concept of social versus private costs and benefits, merit goods, club goods. Provision vs. production of public goods. Market failure and public provision. Its Pricing—vertical summation	MK	Sep
17	Government budget and its structure – Receipts and expenditure – concepts of current and capital account, balanced, surplus, and deficit budgets, concept of budget deficit vs. fiscal deficit, functional classification of budget. Concept of Revenue Deficit.	MK	Sep-Oct
18	Budget, government policy and its impact. Budget multipliers.	MK	Oct
19	Concept of tax, types of tax – direct tax and indirect tax, canons of taxation, subsidy, transfer policy. Principles of taxation -Ability to Pay principle (brief discussion), Benefit Approach (Actual Examples)	MK	Nov
20	Tax Design - introduction – truth seeking mechanism. Effects of income tax on work effort; saving and risk bearing (just brief ideas).	MK	Nov

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21	Excess burden of indirect taxes VAT, Goods and Services Tax (pros and cons) Non-tax revenue resources-earnings from public undertakings, interest on loans	MK	Dec
22	Instruments for stabilization Public Debt – internal and external Public Finance & Public Choice: The role of State	MK	Dec-Jan

Paper 6A – Comparative Development Experience

Module Number	Topic	Faculty	Month
23	Differences in initial conditions of development of less developed countries and present day developed countries.	DM	Aug
	Nature of development gap prevailing at present between developed and less developed countries.		
24	Different types of social organization, feudalism, pre-capitalist societies other than feudalism, capitalism in the West, development of the Third World	DM	Aug
25	Industrial revolution in Great Britain - Causes – Why Great Britain became the pioneer? – characteristics – Effects	DM	Sep
26	The Great Debate in Soviet Union on the assignment of priority on development of heavy industry in planned economic development. The Great Depression of the 1930's– Experiences of USA and Great Britain .	DM	Sep-Oct

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27	Global Change, Welfare state and mixed economy.	DM	Oct
28	Post War global institutions: International Monetary Fund, World Bank, United Nations Conference on Trade and Development.	DM	Nov
29	Trade and Strategies of development: Infant industry, Import substitution versus export promotion in less developed countries. Illustrations from South Asia, Latin America & East Asia.	DM	Nov
30	Foreign Finance, Investment and Development: Private foreign direct investment and Multinational Corporations, private portfolio investment, development assistance debate.	DM	Dec
31	Dependency Approach Unequal exchange	DM	Dec
32	Neo liberalism, Washington consensus, North-South Divide, Recasting of IMF and World Bank.	DM	Dec-Jan
33	General Agreements on Tariff and Trade (GATT) and the Dunkel Draft Controversy- World Trade Organization (WTO).	DM	Jan
34	Economic Integration and Regional Trading Blocs. Global Polarization	DM	Jan
35	Nature of Development planning, Rationale for development planning Washington Consensus, New Consensus and the State	DM	Feb
36	Some Recent Development Experiences (i) China, (ii) Africa (iii) Argentina.	DM	Feb

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Paper 6B – Contemporary Economic Issues: India & West Bengal

Module Number	Topic	Faculty	Month
37	Background of Indian Economic Reforms – New Economic Policy. Redefining India's development strategy. Changing Role of State and Market.	SG	Aug
38	Industrial Policy, Disinvestment policy and Privatization.	SG	Aug-Sep
39	Financial sector reforms including banking reform. Monetary Policy of RBI.	SG	Sep
40	Fiscal Policy Reform – tax reform, debt management, FRBM Act and subsidies.	SG	Sep
41	External sector reforms: Foreign Exchange market, balance of payments, reform, convertibility, export-import policy, foreign direct investment.	SG	Sep
42	Post-reform Agricultural Performance and its Crisis. Poverty and exclusion, NREGA, social security for unorganized workers and forest policy.	SG	Oct
43	Appraisal of Indian Economic Reform. India's Growth Experience.	SG	Nov
44	Growth of the Service Sector. Food security, Food Procurement and Public Distribution System.	SG	Nov
45	Migration and Urbanization.	SG	Dec
46	Land acquisition, SEZ and Industrialization.	SG	Dec
47	Demographic dividend.	SG	Dec-Jan

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48	WB Economy Structure and Growth – based on state domestic product (SDP) data and employment data from National Sample Survey and Census of India.	SKG	Jan
49	WB Economy in relation to India and major states in recent decades: in terms of indicators on - per capita SDP, per capita consumption (rural and urban), income growth, human development.	SKG	Jan
50	Land Reforms, agricultural growth and related current problems- growth of non- farm rural sector	SKG	Jan-Feb
51	Industrial development – problems and prospects; Tertiary sector growth – Informalisation in manufacturing and tertiary sectors.	SKG	Feb
52	Poverty alleviation, Employment generation, self-help-group and social security: Problems and policies	SKG	Feb

Paper 7A – Statistics & Basic Econometrics

Module Number	Topic	Faculty	Month
53	Joint Probability Distribution – Idea of Independence, Marginal and Conditional Distribution. Expectation of the product of two variates.	SKG	Aug
54	Population and Sample, Parameter and Statistic, Random Sampling - Methods of Drawing Random samples –with replacement and without replacement, Random sampling Numbers.	SKG	Aug-Sep

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56	Sampling Distributions associated with Normal Population, Expectation and Standard Error of Sample Mean for with and without replacement random samples.	SKG	Sep
57	Chi-Square Distribution, Student t Distribution, F-Distribution (definition and important properties only-Idea of degrees of freedom.	SKG	Sep
58	Estimators-Desirable properties of estimators -Unbiasedness, Minimum Variance, Consistency and Sufficiency.	SKG	Oct
59	Point Estimation - Maximum Likelihood Estimators and their properties.	SKG	Nov
60	Maximum Likelihood estimation of the parameters of Binomial, Poisson and Normal Distributions.	SKG	Nov
61	Confidence Intervals -Testing of Hypothesis -p-Values -Type-I and Type – II Errors.	SKG	Dec
62	Simple applications of tests for the Mean and Variance of a Univariate Normal Population.	SKG	Dec
63	Classical Linear Regression Model (CLRM): Specification of the Model- Assumptions- Linearity in variables and parameters, Estimation of the Error Variance.	SKG	Dec
64	Gauss Markov Theorem, Goodness of fit: R square – Coefficient of Determination.	SKG	Jan
65	Inference in the Linear Regression Model- Confidence interval for theparameters and the Testing of Hypotheses -Prediction with the Simple Regression model.	SKG	Jan
66	Concepts of Heteroscedasticity and Autocorrelation problems.	SKG	Jan-Feb

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67	Time Series: Introduction, Components, Measurements: Secular Trend (Free hand curve fitting, Moving averages, fitting mathematical curves), Seasonal fluctuation (monthly averages, ratio to moving averages, ratio to trend)	SKG	Feb

Paper 7B – Mathematical Economics

Module Number	Topic	Faculty	Month
78	Simple Trade Models	SKG	Dec
79	Cobweb Model Multiplier-Accelerator Interaction Model	SG	Dec
80	Linear Systems via Eigen values Solution of linear systems by substitution	SKG	Dec-Jan
81	Phase diagrams of linear systems	SG	Jan
82	Solow model.	SKG	Jan

Paper 8A – Indian Economic History

Module Number	Topic	Faculty	Month
83	Economic condition in India on the eve of British rule	SKG	Aug
84	Economic Policies under in British India: Land policy, Policy of Discriminating Protection, Early Industrial Development and Managing Agency System, Currency and monetary policy, Infrastructure and Transport	SKG	Aug-Sep
85	Impact of British rule on India Deindustrialization, Commercialization of agriculture, Economic Drain	SKG	Sep
	Early Economic planning initiatives during British rule	SKG	Sep-Oct

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Paper 8B – Term Paper

Module Number	Topic	Faculty	Month
86	The college should arrange for 10 to 15 lectures to inform the students on the method of preparing for and writing the term paper.	MK	Nov onwards

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GENERAL (B.A. / B.Sc.)

Semester I

Core Course 1 (CC 1) / Generic Elective Course I (GE -1): Introductory Microeconomics

Sl No	Topic	Faculty	No. of lecture	Month
1	Exploring the subject matter of Economics	SG	5	July- Aug
2	Supply and Demand: How Markets Work, Markets and Welfare	SG	16	Aug- Sept
3	The Households	SG	18	November
4	The Firm and Perfect Market Structure	SKG	18	November
5	Imperfect Market Structure	SKG	8	July-Aug
6	Input Markets	S.KG	10	Aug- Sept

Semester II

Core Course 2 (CC 2) / Generic Elective Course 2 (GE -2): Introductory Macroeconomics

Sl No	Topic	Faculty	No. of lecture	Month
1	Introduction to Macroeconomics and National Income Accounting	MK	14	Jan-Feb
2	The Simple Keynesian Model in a Closed Economy	MK	14	Feb-Mar
3	The Classical System	MK	11	Apr-May
4	Money Supply and Money Demand	MK	11	May
5	Inflation	DM	13	Jan-Feb
6	The External Sector	DM	12	Feb-Mar

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Semester III

Core Course 3 (CC 3) / Generic Elective Course III (GE-III): Issues in Economic Development and India

Sl No	Topic	Faculty	No. of lecture	Month
1	Meaning of Economic Development	DM	25	July-Aug
2	Poverty , Inequality and Development	SKG	20	July-Aug
3	Development of the Dual Economy and Development Strategies	DM	15	September
4	International Organizations and Economic Development	SKG	15	September

Skill Enhancement Course - A Group: Elementary Rural Development (ERD)

Sl No	Topic	Faculty	No. of lecture	Month
1	Basic Issues in Rural Development	DM/SKG	12	July
2	Rural Credit and Self Help Groups (SHGs)	DM	12	August
3	Selected Government Programmes and Rural Development	SKG	6	August

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Semester IV

Core Course 4 (CC 4) / Generic Elective Course IV (GE-IV): Indian Economic Policies

Sl No	Topic	Faculty	No. of lecture	Month
1	Macroeconomic Policies and their Impact	MK	15	Jan-Feb
2	Policies and Performance in Agriculture	MK	21	Mar-Apr
3	Policies and Performance in Industry	SKG	21	Jan-Feb
4	Policies and Performance of Indian Foreign Trade	SKG	18	Mar-Apr

Skill Enhancement Course - B Group: Economic Data Analysis and Report Writing (EDARW)

Sl No	Topic	Faculty	No. of lecture	Month
1	Tabular and Graphical representation of Statistical Data	SG	6	January
2	Basic Descriptive Statistics and its role in Data Analysis	SG	16	Feb-Mar
3	Elements of Report writing	DM	8	April

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Third Year General (B. A. / B. Sc. 1+1+1 System)

Paper IV – Development Economics, International Economics & Statistics

Module No.	Topic	Faculty	Month
1	Distinction between Economic Growth and Economic Development: Net National Income and Per Capita Income as Growth Indicators - Concept Of HDI	MK	Aug
2	Development Planning & its necessity - balanced vs. unbalanced growth	MK	Aug-Sep
3	Complementary Roles of Agriculture and Industry -Role of Technology in Agriculture and Industry	MK	Sep
4	Population and Economic Development: The Two Way Relation	SG	Oct
5	Domestic Capital Formation in an Underdeveloped Country: The Problems - Incentives for Savings and Investment	MK	Nov
6	Foreign Investment: Different forms -Their roles in Economic Development	MK	Dec
7	Role of IMF & World Bank in economic development of the LDCS	MK	Dec
8	Gender Related Issues	MK	Jan
9	Comparative Advantage and Protectionism: Principle of Comparative advantage, Ricardo's analysis, Economic Gains from trade,	SG	Aug
10	Graphical Analysis of comparative advantage, Equilibrium Price ratio, Extensions to many commodities and countries,	SG	Sep
11	Protectionism: Supply and demand analysis of trade and tariffs, Free Trade, Trade barriers, Prohibitive Tariff, Non-prohibitive Tariff, Quotas, Economic costs of tariff. Arguments for protection	SG	Oct
12	Balance of Payments: Debits and Credits, Balance on Current Account and Capital Account, Exchange rates and Balance of Payments	SG	Nov
13	Data – Classification and presentation, Population and Sample, Collection of Data - Variable and Attribute	SG	Aug
14	Frequency Distribution – Diagrammatic representation of frequency distribution – Cumulative frequency – Ogive	SG	Sep
15	Central Tendency- Arithmetic Mean, Median and Mode (for both grouped and ungrouped data)	SG	Oct
16	Dispersion: Range and Standard Deviation	SG	Nov
17	Measures of Relative Dispersion – Curve of Concentration, Concepts of Measurement of Economic Inequality: Lorenz Curve	SG	Dec-Jan

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B. Com

Semester I (Honours & General)

GE 1.1 Chg Microeconomics I & Statistics

Module I: Microeconomics I

Sl. No.	Topic	Faculty	No. of lecture	Month
1	Demand & Consumer Behaviour	SKG	15	Jul-Aug
2	Production & Cost	SG	10	Aug-Sept
3	Perfect Competition	SKG	15	Sept-Nov

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Semester IV (Honours & General)

GE 4.1 Chg Microeconomics II & Indian Economy

Module I: Microeconomics II

Sl. No.	Topic	Faculty	No. of lecture	Month
1	Monopoly	SG	10	Jan
2	Imperfect Competition	DM	15	Feb-Mar
3	Factor Price Determination	SG	15	Mar-Apr

Module II: Indian Economy

Sl. No.	Topic	Faculty	No. of lecture	Month
1	Basic Issues in Economic Development	MK	5	Apr-May
2	Basic Features of Indian Economy	MK	10	May-June
3	Sectoral Trends and Issues	SKG	15	Apr-May
4	Social Issues in Indian Economy	SKG	10	May-June

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B. Com Semester V (Honours)

DSE 5.1A Macroeconomics and Advanced Business Mathematics

Module I: Macroeconomics

Sl. No.	Topic	Faculty	No. of lecture	Month
1	Introduction Concepts and variables of Macroeconomics	MK	2	Aug
2	National Income Accounting	MK	6	Aug-Sept
3	Determination of Equilibrium Level of National Income Simple Keynesian Model	MK	10	Sept-Oct
4	Commodity market and Money market equilibrium – IS-LM	DM	10	Oct-Nov
5	Money, Inflation and Unemployment	DM	12	Nov-Dec

☐This is a tentative distribution for successful completion of the syllabus. The Department, although has responsibility towards the successful completion of the syllabus, however, holds that the distribution of Month and syllabus is subjected to modification under unavoidable circumstances within the bounded time-frame.

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Academic Plan

Sub - Education for the 2019-20

Semester	Name of the paper	Paper/Course	No of Topic/ Unit	Topic/Unit	Name of the Teacher	Month
Semester-1	Introduction To Education	CC-1/GE-1	Unit-1 (Concept of Education)	Narrow and broader concept of education.	MD	July
				Meaning, nature and scope of education.	MD	July
				Aims of education- individual, social, vocational, and democratic.	MD	August
				Aims of modern education with special reference to Delor's commission.	MD	August
			Unit-2 (Factors of Education)	Child/learner: influence of heredity and environment on the learner.	MD	August
				Teacher: qualities and duties of a good teacher.	MD	September
				Curriculum- concept and types	MD	September
				Co-curricular activities: meaning, values and significance.	MD	November

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				Educational institutions: informal and non-formal, their interrelation.	MD	November
			Unit-3 (Agencies of Education)	Home	BKS	July
				School	BKS	July
				State	BKS	August
				Mass-media-television, radio, cinema, and newspaper.	BKS	August
			Unit-4 (Child Centricism and Play-way in Education)	Concept of child centricism in education.	BKS	September
				Characteristics and significance of child centricism in education.	BKS	September
				Concept of play and work.	BKS	November
				Characteristics of play way in education, Kindergarten, Montessori, Project method.	BKS	November
Semester-2	Psychological Foundation of Education	CC-2/GE-2	Unit-1 (Relation between Psychology and Education)	Meaning and definition of psychology.	MD	January
				Meaning and definition of education.	MD	February
				Relation between psychology and education.	MD	February
				Nature, scope and significance of educational psychology.	MD	March

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			Unit-2 (Stages and types of human development and their educational significance)	Piaget's cognitive development theory	MD	March
				Erikson's psycho-social development theory	MD	April
				Kohlberg's moral development theory	MD	April
				Vygotsky's social development theory and Bandura's social learning theory.	MD	May
			Unit-3 (Learning: concept and theories)	Concept and characteristics of learning.	BKS	January
				Theories: Connectionism (Trial and error, Classical, operant)	BKS	February
				Insightful learning	BKS	February
				Memorization and Forgetting: Process of memorization, causes of forgetting and economical ways of improving memorization.	BKS	March
			Unit-4 (Intelligence)	Concept of intelligence	BKS	March
				Theories of Spearman, Thorndike and Guilford.	BKS	April

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				Types and uses of intelligence tests.	BKS	April
				Concept of Emotional intelligence and E.Q.	BKS	May
Semester-3	Sociological Foundation of Education	CC-3/GE-3	Unit-1 (Introductory Concept of Sociology of Education)	Meaning and definition of sociology of education.	MD	July
				Relation between sociology and education.	MD	July
				Nature of sociology of education.	MD	July
				Scope of sociology of education.	MD	August
			Unit-2 (Social Groups)	Social groups: meaning and definition.	MD	August
				Types of social groups- primary, secondary and Tertiary.	MD	September
				Socialization process: concept.	MD	September
				Role of the family and school in socialization process.	MD	November
			Unit-3 (Social Change and Education)	Concept of social change.	BKS	June
				Interrelation between social change and education.	BKS	July
				Social stratification and social mobility.	BKS	July

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				Social interaction process.	BKS	August
			Unit-4 (Social Communication in Education)	Social communication: concept.	BKS	August
				Informal agencies of social communication.	BKS	September
				Interrelation between culture, religion and education.	BKS	September
				Interrelation between technology, economy and education.	BKS	November
Semester-4	Inclusive Education	CC-4/GE-4	Unit-1 (Inclusion Overview)	Meaning of inclusion and inclusive society.	MD	January
				Exclusion and inclusion : conceptual overview	MD	January
				Obstacles/barrier in inclusion.	MD	February
				Elements necessary for creating an inclusive society.	MD	February
			Unit-2 (Differently abled)	Concept of impairment, disability and handicap	MD	March
				Types of disabilities- orthopaedic, visual, auditory, cerebral palsy, intellectual autism, learning disabilities(only definition and their specific problems).	MD	March

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				General causes of disabilities	MD	April
				Role of school and society in creating a barrier free environment.	MD	April
			Unit-3 (Socially disabled)	Concept of SC,ST and OBC groups.	BKS	January
				Concept of gender and sexuality		
				Causes of social exclusion	BKS	January
				Understanding social inclusion: role of education.	BKS	February
			Unit-4 (Educational reforms for inclusive society)	Building an inclusive school: desired changes in system, structure, practice and culture.	BKS	February
				Education for a multicultural society.	BKS	March
				Education for peaceful co-existence.	BKS	March
				Role of informal agencies (like mass media etc) in building an inclusive society.	BKS	April
Part- III	Evaluation and Guidance in Education	Paper- IV	Mudule-1	Concept of evaluation	MD	August

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				Need and scope of evaluation in education: evaluation of student achievement, evaluation of curriculum, evaluation of teaching, evaluation of institute.	MD	September and November
				Evaluation of student progress : examination and evaluation. Tools of evaluation: examination- essay type and objective type, criterion-referenced test and standardized test, cumulative record card (CRC).	MD	December and January
			Module-II	How to make a good test: specification of objectives, item selection.	BKS	August
				Measurement in education: tabulation of educational data, measures of central tendency, measures of variability, (SD only) , graphical representation (frequency polygon, histogram and ogive) . Idea of linear correlation.	BKS	September and November

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			Module-III	Guidance: concept, need and scope and types.	MD	February
				Basic data necessary for guidance (data about students, courses and vocations)	MD	March
				Counseling: meaning and types of counseling for adjustment problem.	MD	March
			Module-IV	Meaning of adjustment	BKS	December and January
				Causes of maladjustment: role of parents, teachers, peers and educational institutions in the development of maladjustment.	BKS	February and March

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Academic Plan 2019-20

BA (H) English						
Part/Sem	Name of the paper	Section	No.of Units	Topic/Unit	Name of the teacher	Month
Semester 1	**CC1** History of English Literature (Group A)	1	A	Old English Heroic Poetry, Old English Prose and Chaucer	BB	July-August
1		1	B	Elizabethan Sonnets, University Wits and Ben Jonson	BB	September
1		1	C	Restoration Comedy of Manners and Eighteenth century Novels	BB	September & November
1		2	D	Pre-Romantic Poetry and Romantic Non-Fiction Prose	AB	July-August
1		2	E	Victorian Novel and the Pre-Raphaelites	AB	September
1		2	F	Modern Novel, Poetry and Drama	AB	September & November
				Term Paper Draft Submission		End of September
1	Philology (Group B)	1	A	Latin, Scandinavian & French Influence, Americanism	GD	July-August
1		2	B	Short Notes	GD	August
1		2	C	Word-formation Processes and Consonant Shift	GD	September
				Term Paper Submission		November
				CLASS TEST		November
				Tutorial Viva		December
1	**CC2** European Classical Literature (Group B)	1	A	Homer *The Iliad (Books I and II)*	GD	September
1		2	B	Sophocles *Oedipus the King*	AB	August-September
				Term Paper Draft Submission		End of September
1	Group C	1	A	Ovid, Selections from *Metamorphoses, Bacchus (Book III)*	SB	November
1		2	B	Plautus *Pot of Gold*	SB	July, August, November
				Term Paper Submission		November
				CLASS TEST		November

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				Tutorial Viva		December
	AECC1 (Communicative English)	1	1	Correction of Sentences	AB	September
		2	2	Transformation	AB	October, November
		3	3	Indentifying True /False Statements from given passages	AB	November
				CLASS TEST		November
Semester 2	**CC3** Indian Writing in English	1 (Poetry)	A	Henry Louis Vivian Derozio 'To India, My Native Land'	BB	January
2			B	Toru Dutt 'Our Casuarina Tree'	BB	January
2			C	Kamala Das 'An Introduction'	BB	February
2			D	A.K. Ramanujan 'River'	BB	February
2			E	Nissim Ezekiel 'Enterprise'	BB	March
2			F	Jayanta Mahapatra 'Dawn at Puri'	BB	March-April
				Term Paper Draft Submission		March
2		2 (Novel)	A	Bankim Chattopadhyay *Rajmohan's Wife*	AB	January-March
2		3 (Drama)	A	Mahesh Dattani 'Bravely Fought the Queen'	GD	February-March
				Term Paper Submission		April
				CLASS TEST		May
				Tutorial Viva		June
2	**CC4** British Poetry & Drama (14^{th}-17^{th} century)	1 (Poetry)	A	Chaucer 'Wife of Bath's Prologue'	GD	January
2			B	Donne 'The Good Morrow'	GD	January
2			C	Marvell 'To his Coy Mistress'	GD	March
2			D	Shakespeare Sonnet 18 and 130	GD	March
			E	Spenser 'One Day I wrote her Name'	GD	April
				Term Paper Draft Submission		March
2		2	A	Shakespeare *Macbeth*	AB	March-

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		(Drama)				April
2			B	Shakespeare *As You Like It*	SB	February-April
				Term Paper Submission		April
				CLASS TEST		May
				Tutorial Viva		June
Semester 3	**CC5** American Literature	1 (Poetry)	A	Robert Frost 'After Apple Picking'	BB	August
			B	Walt Whitman 'O Captain, My Captain'	BB	August
			C	Sylvia Plath 'Daddy'	BB	September
			D	Langston Hughes 'Harlem'	BB	September
			E	Edgar Allan Poe 'To Helen'	BB	November
				Term Paper Draft Submission		September
		2 (Novel)	A	Ernest Hemmingway *The Old Man and the Sea*	AB	July-September
		3 (Stories)	A	Edgar Allan Poe 'The Purloined Letter'	GD	September
			B	F Scott Fitzgerald 'The Crack-Up'	GD	November
			C	William Faulkner 'Dry September'	GD	September
		4 (Drama)	A	Arthur Miller *Death of a Salesman*	SB	September, November
				CLASS TEST		November
				Term Paper Submission		November
				Tutorial Viva		December
3	**CC6** (Popular Literature)	1	A	Lewis Carroll *Through the Looking Glass*	SB	September, November
3			**B**	Agatha Christie *The Murder of Roger Ackroyd*	GD	November
				Term Paper Draft Submission		September
3		2	A	Sukumar Roy *Abol Tabol*	AB	August-September
		3	A	Herge *Tintin in Tibet*	GD	September
				CLASS TEST		November
				Term Paper Submission		November
				Tutorial Viva		December
3	**CC7** (British Poetry and Drama 17th-18th century)	1 (Poetry)	A	John Milton *Paradise Lost*	GD	July-September
3			B	Alexander Pope *The Rape of the Lock Cantos I-III*	BB	July-September
				Term Paper Draft		September

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				Submission		
3		2 (Drama)	A	John Webster *The Duchess of Malfi*	AB	November
3			B	Aphra Behn *The Rover*	SB	July-September
				Class Test		November
				Term Paper Submission		November
				Tutorial Viva		December
	SEC A2 (Business Communication)	1	A	Business Letters	SB	September
		2	A	CV Writing	SB	September
		3	A	Email Writing	SB	October
		4	A	Report Writing	SB	November
		5	A	Writing Meeting Minutes	SB	November
				CLASS TEST		November
Sem 4	**CC8** (18th Century British Literature)	1 (Poetry)	A	Samuel Johnson 'London'	GD	January
			B	Thomas Gray 'Elegy Written in a Country Churchyard'	GD	January
		2 (Drama)	A	William Congreve *The Way of the World*	GD	February-March
				Term Paper Draft Submission		March
		3 (Fiction and Non-Fiction)	A	Daniel Defoe *Robinson Crusoe*	AB	February-March
			A	Joseph Addison 'Sir Roger at Home' and 'Sir Roger at Church'	AB	April
				Term Paper Submission		April
				Class Test		May
				Tutorial Viva		June
	CC9 (British Romantic Literature)	1 (Poetry)	A	William Blake 'The Lamb and The Tyger'	GD	April
			B	Willliam Wordsworth 'Tintern Abbey'	GD	January
			C	Samuel Taylor Coleridge 'Kubla Khan'	GD	March
			D	P.B. Shelley 'Ode to the West Wind' and 'To a Skylark'	GD	February
			E	John Keats 'Ode to a Nightingale' and 'Ode to	GD	March

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				Autumn'		
				Term Paper Draft Submission		March
		2 (Prose)	A	Mary Shelley *Frankenstein*	SB	January-February
			B	Charles Lamb 'Dream Children' & 'The Superannuated Man'	BB	March-April
				Term Paper Submission		April
				Class Test		May
				Tutorial Viva		June
	CC10 (19th Century British Literature)	1 (Poetry)	A	Lord Tennyson 'Ulysses'	AB	January
			B	Robert Browning 'My Last Duchess'	AB	January
			C	Christina Rossetti 'The Goblin Market'	AB	February
			D	Matthew Arnold 'Dover Beach'	AB	April
				Term Paper Draft Submission		March
		2(Novel)	A	Jane Austen *Pride and Prejudice*	BB	January-March
			B	Thomas Hardy *The Mayor of Casterbridge*	SB	March-April
				Term Paper Submission		April
				Class Test		May
				Tutorial Viva		June
	SEC B2 (Academic Writing and Composition)	1	A	Citing Sources	SB	March
		2	A	Writing Critical Appreciation	SB	March
		3	A	Substance Writing with critical note	SB	April
		4	A	Essay Writing	SB	April
				CLASS TEST		May
Part 3	**Paper 5** (Poetry from Elizabethan Age to Neo-Classical Period) Group A	1	A	Shakespeare Sonnet 18 & 130	GD	September
3	Group B	1	A	John Donne: *The Good Morrow*	GD	August
3		2	B	Andrew Marvell: *To His Coy Mistress*	GD	November

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3	Group C	1	A	John Milton *Paradise Lost* Book I	GD	August-September
3	Group D	1	A	Alexander Pope *The Rape of the Lock*	BB	November-December
3	Group E	1		Literary Terms on Poetry	GD	Sepember
				Mid Term		November
				Selection Test		January
3	**Paper 6** (Novel, Essay and Writing)	1	A	Thomas Hardy: *The Mayor of Casterbridge*	SB	November-December
3		2	B	Miscellaneous Writing Skills	SB	September-January
3		3	C	Essay	SB	September
3		4	D	Summary and Critical Note of an Unseen Passage	SB	August-November
				Mid Term		November
				Selection Test		January
3	**Paper 7** (Drama and Literary Types)	1	A	John Osborne: *Look Back in Anger*	AB	August-September
3		1	B	George Bernard Shaw: *Arms and the Man*	AB	September-November
3		1	C	Synge: *Riders to the Sea*	SB	August-September
3		2	A	Literary Types	SB	September-November
				Mid Term		November
				Selection Test		January
3	**Paper 8** (Indian Writing in English)	1	A	Mulk Raj Anand: *Coolie*	BB	August-October
3		1	B	Rabindranath Tagore: *The Home and the World*	BB	November-December
3		2	A	Munshi Prem Chand: *The Shroud*	AB	November
3		2	B	Ruskin Bond: *The Eyes are not Here*	AB	November
3		2	C	Manik Bandopadhyay: *Primeval*	AB	November
3		2	D	R.K. Narayan: *Cat Within*	AB	December
3		3	A	Saroojini Naidu: *Palanquin Bearers*	SB	September
3		3	B	Nissim Ezekiel: *Enterprise*	SB	August
3		3	C	Kamala Das: *An Introduction*	SB	November
3		3	D	Agyeya: *Hiroshima*	SB	November
3		4	A	Mahesh Dattani: *Bravely*	AB	November-

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** Tentative Schedule for Midterm (Part 3): November

Tentative Schedule for Selection Test :

Part 3: January

BA (G) English						
Year/Sem	Topics	Paper/Course	No.of Module	Topic/Unit	Name of the teacher	Month

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Academic Plan 2019-20

Sem1	Poetry	CC1/GE1	1	Sonnet no. 18 by William Shakespeare	SB	August
1			2	Strange Fits of Passion by William Wordsworth	SB	September
1			3	To A Skylark by P B Shelley	BB	August
1			4	Ode To Autumn by John Keats	BB	September
1	Short Stories		5	Araby by James Joyce	AB	August-September
1			6	The Fly by Katherine Mansfield	GD	August-November
1			7	Lagoon by Joseph Conrad	AB	November
				Class Test		November
				Project Submission		November
				Project Viva		December
	Communicative English	AECC1	1	Correction of Sentences	GD	September
			2	Transformation	GD	October, November
			3	Indentifying True /False Statements from given passages	GD	November
				CLASS TEST		November
Sem 2	Novel	CC2/GE2	1	The Mayor Of Casterbridge by Thomas Hardy	SB	September-November
	Drama		2	Arms and the Man by G. B. Shaw	AB	August-November
			3	As You Like It by	GD	August-

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				William Shakespeare		September
	Essays		4	Shooting an Elephant by George Orwell	BB	August
			5	Dream Children: A Reverie by Charles Lamb	BB	September
				Class Test		November
				Project Submission		November
				Project Viva		December
Sem 3	Poetry	CC3/GE3	1	Elizabeth Barret Browning 'How Do I Love Thee'	BB	July-August
			2	Christina Rossetti 'Uphill'	BB	August
			3	Emily Dickinson 'I cannot Live With you'	BB	November
			4	Sarojini Naidu 'Palanquin Bearers'	BB	September
	Prose		1	Rassundari Devi *Amar Jiban*	SB	November
			2	RokeyaSakhawat Hussain *Sultana's Dream*	SB	August-September
				Class Test		November
				Project Submission		November
				Project Viva		December
	Language, Variety and Stylistics	LCC (L1)-1	A	Personal Letters	SB	August

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			B	Business Letters	SB	August
			C	Report Writing	AB	August
			D	Email Writing	SB	September
			E	Correction	AB	September
			F	British English to American English and vice versa	SB, AB	October, November
				Class Test		November
				Project Submission		November
Sem 3	Business Communication	SEC A2	A	Business Letters	SB	August
			B	Email Writing	SB	September
			C	Report Writing	SB	September
			D	CV Writing	SB	October
			E	Writing Meeting Minutes	SB	November
				Class Test		November
Sem 4	Academic Writing	CC4/GE4	A	Citing Sources	SB	January
			B	Writing critical appreciation	BB	January-February
			C	Writing Summary/Substance with Critical Note	SB	February-April
			D	Writing Essay	BB	March-April
				Class Test		November

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				Project Submission		November
				Project Viva		December
	Language, Society and Personality	LCC (L2)-1 Alternative English	A1	Shashi Tharoor: 'The Idea of India: India's Mosaic of Multiplicities'	AB	February
			A2	Ismat Chugtai 'Roots'	AB	March
			A3	Ramachandra Guha: 'A Gandhian in Garhwal'	AB	April
			B1	Louis Fischer: 'Gandhi and the Western World'	AB	February
			B2	Sisir Kumar Ghosh: 'Makers of Indian Literature: Rabindranath Tagore'	AB	March
			B3	Subal Chandra Mitra 'Isvar Chandra Vidyasagar: A Story of his Life and Work'	AB	April
				Class Test		May
				Project Submission		May
	Spoken English	SEC B1	A	Features of Oral Communication	GD	February
			B	Essentials of Good Communication	GD	February
			C	Greeting, Leave Taking, Making	GD	February

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				Requests, Queries		
			D	Narrating Events	GD	March
			E	Complaints and Apologies, Alerting, Warning	GD	March
			F	Interview	GD	April
			G	Debate	GD	April
			H	Anchoring	GD	April
			I	Public Address	GD	May
				CLASS TEST		May
Part 3	Short Stories (Indian)	4A	1	A Moment Of Eternity by Bhabani Bhattacharya	GD	January
3		4A	2	Duty by Mulk Raj Anand	GD	September-October
3		4A	3	Dasi The Bridegroom by R K Narayan	GD	August-September
3		4A	4	The Home Coming by Rabindranath Tagore	GD	November-December
3	Poems (Indian)	4B	5	Sita by Toru Dutt	GD	November-December
3		4B	6	An Introduction by Kamala Das	GD	August-September
3		4B	7	A River by A K Ramanujam	GD	December-January
3		4B	8	Goodbye Party For Miss Pushpa T S by Nissim Ezekiel	GD	September-October

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3	Unseen	4C	9	Dialogue Writing	GD	November-December
3		4C	10	Substance Writing	GD	September-December

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ACADEMIC PLAN

Department of History 19-20

Month	Semester/Year	Paper	Module	Name of the teacher
August	1st sem	CC1 (HISTORY OF INDIA,FROM THE EARLIEST TIMES TO C 300 BCE)	I.Reconstructing Ancient Indian history II.Hunter Gathers and the advent of food products	SS,SSG
August	1st sem	CC2 (SOCIAL FORMATION AND CULTURAL PATTERNS OF THE ANCIENT WORLD OTHER THAN India)	1.Evolution of human kind II.Food Production	AM,DB
August	3rd sem	CC5(HISTORY OF INDIA C750	I.Studying Early medieval India II.Political structures	SSG,DB
August	3rd Sem	CC6(RISE OF THE MODERN WEST)	I.Transition debate on transition from feudalism to capitalism:problems and theories. II.Exploration and voyages	SS
August	3RD Sem	CC7 HISTORY OF INDIA(C1206-1526)	I.Interpreting the Delhi Sultanate. II.Sultanate Political Structures.	AM,DB
August	3RD YEAR	PAPER 5 History of East Asia from 18	Pre Colonial China Colonial Penetration in China Popular Movements with special reference to Tiping Revolt	AM
August	3RD YEAR	PAPER 6 - Hisytory of India from c1800 to 1964	Understanding Modern India The Indian Response	DB

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August	3RD YEAR	PAPER 7- History of Europe from 1789-1919	Understaing the 18th century Europe The freach Revolution Napoleon bonaparte	SSG
August	3RD YEAR	Paper 8- World Politics in the 20th Century from 1919 to C20000	The Versailes settlement of 1919 The league of Nations	SS
September	1st sem	CC1 (HISTORY OF INDIA,FROM THE EARLIEST TIMES TO C 300 BCE)	III.The Harappan Civilization	SS,SSG
September	1st sem	CC2 (SOCIAL FORMATION AND CULTURAL PATTERNS OF THE ANCIENT WORLD OTHER THAN India)	III.Bronze age Civilization Iv.nomadic groups in Central and West Asia	AM,DB
September	3rd sem	CC5(HISTORY OF INDIA C750-1206)	III.Agrarian structure and social change IV.Trade and Commerce	SSG,DB
September	3rd Sem	CC6(RISE OF THE MODERN WEST)	III.Renaissance IV.Reformation movements	SS
September	3RD Sem	CC7 HISTORY OF INDIA(C1206-1526)	III.Society and Economy	AM,DB
		Paper 8- World Politics in the 20th Century from 1919 to C20000	The reparcatrion issue and its impact on international relations. The Great Depression	SS
September	3RD YEAR	PAPER-5 History of	Restoration,Reform,Revolution Nationalism and	AM

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		East Asia from 1839-1950	Communalism in China	
September	3RD YEAR	PAPER 6 - Hisytory of India grom c1800 to 1964	RURAL Economy and society The non agrarian Sector Early Resistance to Colonial Rule Colonial Intervention and crowth of Modern Education	DB
September	3RD YEAR	PAPER 7- History of Europe from 1789-1919	The Vienna Congress The Emergence of NtaION State in Central Europe	SSG
September	3RD YEAR	PAPER 8 Paper 8- World Politics in the 20th Century from 1919 to C20000	Hitler and world war. Background pf the foudation of UNO	SS
October	Puja vaccation			
November	1st sem	CC1 (HISTORY OF INDIA,FROM THE EARLIEST TIMES TO C 300 BCE)	IV.Cultures in Tansition	SS,SSG
November	1st sem	CC2 (SOCIAL FORMATION AND CULTURAL PATTERNS OF THE ANCIENT WORLD OTHER THAN India)	V.Slave society in ancient Greece and Rome VI.Polis in ancient Greece.	AM,DB
November	3rd sem	CC5 History7 of East Asia from 1839 to 1950	V.Religious and Cultural developments.	SSG,DB
November	3rd Sem	CC6(RISE OF THE MODERN WEST)	V.Economic developments VI.Development of national monarchy	SS
November	3RD Sem	CC7 HISTORY OF INDIA(C1206-	III.Society and Economy IV.Religion and Culture	AM,DB

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		1526)		
November	3RD YEAR	PAPEER-5 History of East Asia from 1839-1950	Japan-nationalism and Communalism in China Japan-prerestoration period	AM
November	3RD YEAR	PAPER 6 - Hisytory of India grom c1800 to 1964	History of India Nationalism	DB
November	3RD YEAR	PAPER 7- History of Europe from 1789-1919	French RevolutionT	SSG
November	3RD YEAR	Paper 8- World Politics in the 20th Century from 1919 to C20000	Ussr's relation with the East Europe Bioilarism	SS
December	Final examination			
2020,january	2nd Sem	CC3(HISTORY OF INDIA C300BCE to c750CE)	I.Economy and Society II.Changing political formations	AM,DB
2020,january	2nd Sem	Cc4((SOCIAL FORMATION AND CULTURAL PATTERNS OF THE MEDIEVAL WORLD OTHER THAN India)	I.Group B.Crisis of the Roman Empire and its causes	SS,SSG
2020,january	4TH SEM	CC8(RISE OF THE MODERN WEST-II)	I.Printing Revolution Revolution in war techniques.	SS
2020,january	4TH SEM	CC9(HISTORY OF INDIA C 1526-1605)	I.Sources and Historiography	SS,SSG
2020,january	4TH SEM	CC 10(HISTORY OF INDIA C	I.Sources	DB,AM

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		1605-1750)		
February	2nd Sem	CC3(HISTORY OF INDIA C300BCE to c750CE)	III.Towards early medieval India	AM,DB
February	2nd Sem	Cc4((SOCIAL FORMATION AND CULTURAL PATTERNS OF THE MEDIEVAL WORLD OTHER THAN India)	Historiography	SS,SSG
February	4TH SEM	CC8(RISE OF THE MODERN WEST-II)	a.Crisis in Europe in the 17th Century b.Its economic,social and political dimentions.	SS
February	4TH SEM	CC9(HISTORY OF INDIA C 1526-1605)	II.Establishment of Mughal rule	SSG,SS
February	4TH SEM	CC 10(HISTORY OF INDIA C 1605-1750)	ii.Political Culture under Jahangir and Shaha jahan	DB,AM
February	4thsem	PAPER 5-History of East Asia from 1839-1950	Meiji Restoration	
February	4thsem	PAPER 6-Hisytory of India grom c1800 to 1964	Economic Social and political trens up to 1919 as background	
February	4thsem	PAPER 7-History of Europe from 1789-1919	revision	ss
			Reunification of Germany	ss
March	2nd Sem	CC3(HISTORY OF INDIA C300BCE to c750CE)	IV.Religion,philosophy and society	AM,DB
March	2nd Sem	Cc4((SOCIAL FORMATION AND	Religion and Culture in Medieval Europe	SS,SSG

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		CULTURAL PATTERNS OF THE MEDIEVAL WORLD OTHER THAN India)		
March	4TH SEM	CC8(RISE OF THE MODERN WEST-II)	III.The English Revolution	SS
March	4TH SEM	CC9(HISTORY OF INDIA C 1526-1605)	iii.Consolidation of Mughal rule under Akbar	SS,SSG
March	4TH SEM	CC 10 1910(HISTORY OF INDIA C 1605-1750)	III.Muughal empire under Aurangzeb	DB,AM
April	2nd Sem	CC3(HISTORY OF INDIA C300BCE to c750CE)	V.Cultural developments	AM,DB
April	2nd Sem	Cc4((SOCIAL FORMATION AND CULTURAL PATTERNS OF THE MEDIEVAL WORLD OTHER THAN India)	Religion and Culture in Medieval Europe The Feudal society its origin and its crisis	SS,SSG
April	4TH SEM	CC8(RISE OF THE MODERN WEST-II)	iv.scientific Revolution	SS
April	4TH SEM	CC9(HISTORY OF INDIA C 1526-1605)	IV.Expansion and Integration	SS,SSG
April	4TH SEM	CC 10(HISTORY OF INDIA C 1605-1750)	IV.Visual Culture	DB,AM
May	2nd Sem	CC3(HISTORY OF INDIA C300BCE to c750CE)	v.Cultural Developments	AM,DB
May	2nd Sem	Cc4((SOCIAL FORMATION	Judaism and Christanity under Islam	SS,SSG

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		AND CULTURAL PATTERNS OF THE MEDIEVAL WORLD OTHER THAN India)		
May	4TH SEM	CC8(RISE OF THE MODERN WEST-II)	European economy	SS
May	4TH SEM	CC9(HISTORY OF INDIA C 1526-1605)	V.Rural Society and Economy	SS,SSG
May	4TH SEM	CC 10(HISTORY OF INDIA C 1605-1750)	v.Patterns of Regional Politics.	DB,AM
MAY	3rd year	Paper 5 History of East Asia from 1839-1950	Popolar and Democrartic Movemennts Economic Modernisation	AM
MAY	3rd year	PAPER 6 - Hisytory of India grom c1800 to 1964	The Gandhian era New Trends in National Movemnet Pre-war Political Developments	DB
MAY	3rd year	PAPER 7- History of Europe from 1789-1919	Industrialisation in Europoe The third Repuplic The Eastern Question	SSG
MAY	3rd year	Paper 8- World Politics in the 20th Century from 1919 to C20000	The Cold war	SS
JUNE	3rd year	Paper -5 History of East Asia from 1839-1950	ECONOMIC Modernisation Emergence of Japan as an Imperial Power	AM
JUNE	3RD YEAR	PAPER 6 - Hisytory of India grom	Communal Politics and Partition India from 1947-1964	DB

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		c1800 to 1964		
JUNE	3RD YEAR	PAPER 7- History of Europe from 1789-1919	Age of Imperialism The impact of the war on the cold War	SSG
		Paper 8- World Politics in the 20th Century from 1919 to C20000	Impact of Cold war	AM
JUNE	2ND SEM		REVISION	
JUNE	4TH SEM		REVISION	

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Department of Mathematics

Academic Plan Odd Sem 2019

Subject: Business Mathematics & Advanced Business Mathematics

Year / Sem	Paper/ Course	Chapter	Topic/Unit	Name of the teacher	Month
THIRD SEMESTER	BUSINESS MATHEMATICS	III	**Binomial Theorem :** Statement of the theorem, General term, Middle term, Simple Properties of binomial coefficients.	ARC	Aug
		IV	**Logarithm :** Definition, Base and index of logarithm, General Properties of Logarithm.	SD	
		V	**Compound Interest and Annuities :** Simple AP and GP Series, Different types of interest rates.	NM	
		III	**Binomial Theorem :** Problems on Binomial Theorem	ARC	Sept
		I	**Permutation :** Definition, Factorial Notation, Theorem on permutation, Permutations with repetitions, Restricted Permutation.	ARC	
		II	**Set Theory :** Definition, Presentation of Sets, different types of sets, set operation, Law of algebraic sets.	SD	
		IV	**Logarithm :** Problems on Logarithm	SD	
		V	**Compound Interest and Annuities :** Net Present Value, Types of Annuities, Continuous compounding.	NM	

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		I	**Combination :** Definition, Theorems on Combination, Basic Identities, Restricted Combination.	ARC	Nov
		V	**Compound Interest and Annuities :** Valuation of simple loans and debentures, problems relating to Sinking Funds.	NM	
		II	**Set Theory :** Different problems on set theory	SD	
I N T E R N A L E V A L U A T I O N 3rd week of November					
S E M E S T E R E N D E X A M I N A T I O N **I N D E C E M B E R**					
F I F T H S E M E S T E R	A D V A N C E D B U S I N E S S M A T H E M A T I C S	I	**Functions:** Definition of functions; classification of functions; Different types of functions; bounded functions; monotonic functions; even and odd functions; parametric form of functions; composite functions; graphical representation of functions.	NM	Aug
		II	**Differentiation :** Derivative and its meaning; rules of differentiation; geometrical interpretation; significance of derivative; significance of derivative as rate of measure; second and higher order derivatives.	DH	
		V	**Matrix :** Definition of matrix ; types of matrices; operations on matrices.	ARC	
		I	**Limit and Continuity :** Elementary ideas of limit and continuity through the use of simple algebraic functions.	NM	Sept
		II	**Differentiation :** Partial derivative up to second order; homogeneity of function and Euler's theorem; total differentials; differentiation of implicit functions with the help of total differentials.	DH	
		II	**Integration :** Integration as anti-derivative process, standard forms, integration by substitution, by parts and by use of partial functions; definite integral; finding areas in simple cases; consumers producers surplus; nature of commodities learning curve.	DH	

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		V	**Matrix :** Adjoint of a matrix; inverse of a matrix; solutions of a system of linear equations by matrix inversion method.	ARC	
		IV	**Determinants :** Determinants of a square matrix upto 3rd order.	ARC	
		III	**Application of Derivative and Integration:** Maximum and minimum values; cost function; demand function; profit function; increasing and decreasing functions; rate measure; Applied problems on average cost(AC); Average variable cost(AVC), Marginal Cost(MC); Marginal Revenue(MR).	NM	Nov - Dec
		II	**Integration :** Integration by substitution, by parts and by use of partial functions; definite integral; finding areas in simple cases; consumers producers surplus; nature of commodities learning curve.	DH	
		IV	**Determinants :** Elementary properties of determinants; minors and co-factors; adjoint of a determinants; Cramer's rule.	ARC	
I N T E R N A L E V A L U A T I O N 3rd week of November					
S E M E S T E R E N D E X A M I N A T I O N I N D E C E M B E R					

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Department of Mathematics

Academic Plan 2019 - 2020

Subject: Mathematics Honours

Year / SEM	Paper/ Course	Module / Unit	Topic/Unit	Name of the teacher	Month
FIRST SEMESTER	CORE COURSE ONE	UNIT I	**Differential Calculus:** Higher Order Derivatives , Leibnitz Rule	RPC	August
			Integral Calculus: Reduction Formula	RPC	
		UNIT II	**Analytical Geometry of 2 Dimensions:** General equation of second degree in *x* and *y*.	NM	
		UNIT III	**Vector Analysis:** Scalar and Vector products of three vectors, Simple applications to problems of Geometry.	SD	
		UNIT I	**Differential Calculus:** Curvature, Concavity, Envelope, Asymptote.	SD	Sept
			Integral Calculus: Parametric Equations, Arc Length of Parametric Curves	RPC	
		UNIT II	**Analytical Geometry of 2 Dimensions:** Tangent & Normal, Polar Equation, Equation of Plane. **Analytical Geometry of 3 Dimensions:** Straight Line, Sphere, Cylinder.	NM	
		UNIT III	**Vector Analysis:** Theory of Couples, System of Parallel Forces.	SD	
		UNIT I	**Differential Calculus:** Curve Tracing, L'Hospitals Rule , Application of Differential Calculus	RPC	Nov
			Integral Calculus: Area and Volume	RPC	

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		UNIT II	**Analytical Geometry of 3 Dimensions:**, Central Conicoids, Generating lines, Classifications of Quadrics, Tangent & Normals of Conicoids	NM	
		UNIT III	**Vector Analysis:** Introduction to Vector Functions, Limits, Continuity, Differentiations & Integrations of Vector Functions	SD	
FIRST SEMESTER	CORE COURSE TWO	Unit I	**Classical Algebra :** Complex Numbers – Polar representation of complex numbers, n-th roots of unity, De-Moiver's Theorem and its application, Exponential, logarithmic.	ARC	August
		Unit II	**Abstract Algebra:** Relation and Mapping	DH	
		Unit III	**Linear Algebra :** Rank of a matrix , Characterizations of Invertible matrix	DH	
		Unit I	**Classical Algebra :** Complex Number - Trigonometric and hyperbolic functions of complex variable.	ARC	Sept
			Classical Algebra : Theory of Equation – Descarte's Rule , Sturm's Theorem, Relation between roots and coefficients.	ARC	
		Unit II	**Integer :** Well Ordering Property and Principle of Mathematical Induction, Division Algorithm, Divisibility and Euclidean Algorithm, prime numbers, Euclid's Theorem, Congruence.	DH	
		Unit III	**Linear Algebra :** System of linear equations, Row reduction and Echelon forms, Vector Equations , The matrix equation AX = B.	DH	
		Unit I	**Classical Algebra :** Theory of Equation - transformation of equation, Solution of cubic equation by Cardan's Method, Solution of biquadratic equation by Ferrari's Method.	ARC	Nov

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K.K. Das College GRH-17 B.G. Patuli P.O.-Garia, Kol-84

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			Classical Algebra : Inequality – AM ≥ GM ≥ HM , Cauchy – Schwartz Inequality. Linear Difference Equations with constant coefficients (up to 2nd order)	MBS	
		Unit II	**Integer -** Chinese Remainder Theorem, Fundamental Theorem of Arithmetic , Arithmetic Functions, φ, τ, σ functions and their properties.	DH	
		Unit III	**Linear Algebra :** Solution sets of linear systems and application of linear systems	DH	
Internal Assessment **End of November**					
Tutorial Examination **1st week of December**					
Semester End Examination **End of December**					
SECOND SEMESTER	CORE COURSE THREE	Unit I	**Real Analysis – I** **Real number :** Idea of Real Numbers , Countable and Uncountable Sets, Bounded and Unbounded Sets in R, Supremum and Infimum of a set and their properties.	NM	Feb
		Unit II	**Real Analysis – II** **Real Sequence :** Basic idea of Real Sequence , Bounded Sequence, Convergence and non-convergence, examples, Boundedness of Convergent Sequence. Uniqueness of limit. Algebra of limits.	MBS	
		Unit III	**Real Analysis – III** **Infinite Series :** Definition, Convergence and Non-convergence of Infinite series, Cauchy Criterion.	ARC	

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		Unit I	**Real Analysis – I** **Real number :** Order completeness axiom, Archimedean Property of R. Density of rational and irrational numbers in R. **Sets in R :** Neighbourhood of a point, Interior Point, Open Set, Union and Intersection of Open Sets, Limit Point and Isolated point of a set. Bolzano Weirstrass theorem for sets, Existence of Limit Point of every uncountable set as a consequence of Bolzano-weirstrass theorem.	NM	March
		Unit II	**Real Analysis – II** **Real Sequence :** Relation between the limit point of a set and the limit of a convergent sequence of distinct elements. Monotone sequences and their convergence. Sandwich Rule. Nested Interval Theorem. Limit of some important sequences : $\left\{n^{\frac{1}{n}}\right\}_n$, $\{x^n\}_n$ $\left\{x^{\frac{1}{n}}\right\}_n$, $\{x_n\}_n$ with $\frac{x_{n+1}}{x_n} \to l$ and $\lvert l \rvert < 1$, $\left\{\left(1+\frac{1}{n}\right)^n\right\}_n$, $\left\{1+\frac{1}{1!}+\frac{1}{2!}+.....+\frac{1}{n!}\right\}_n$, $\{a^{x_n}\}_n (a>0)$. Cauchy's first and second limit theorems.	MBS	
		Unit III	**Real Analysis – III** **Infinite Series :** Tests for Convergence of Series of Positive Terms : Comparison Test, Ratio Test, Cauchy's n-th Root Test , Kummer's Test and Gauss Test (statement only).	ARC	

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		Unit I	**Real Analysis – I** **Sets in R :** Derived set, Closed Set, Complement of Open Set and Closed Set, Union and Intersection of closed sets as a consequence, No non-empty proper subset of R is both open and closed. Dense set in R as a having non-empty intersection with every open intervals. Q and R-Q are dense in R.	NM	April-May
		Unit II	**Real Analysis – II** **Real Sequence :** Subsequence. Subsequential limits, lim sup as the LUB and lim inf as the GLB of a set containing all the subsequential limits. Alternative definition of lim sup and lim inf of a sequence. A bounded sequence $\{x_n\}$ is convergent iff lim sup x_n = lim inf x_n . Every sequence has a monotone subsequence. Bolzano-Weirstrass Theorem for sequence. Cauchy's Convergence Criterion. Cauchy Sequence.	MBS	
		Unit III	**Real Analysis – III** **Infinite Series :** Alternating series . Tests for Convergence of alternating series : Leibnitz Test. Absolute and Conditional Convergence.	ARC	
SECOND SEMESTER	CORE COURSE FOUR	Unit I	**Abstract Algebra – I** **Concept of Group :** Definition of a Group, Properties of Group, Examples of Commutative and non-commutative Groups, Symmetries of a Square, Dihedral Group, Quarternion Groups(through matrices), Order of an element, Order of a Group.	RPC	Feb

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		Unit I	**Abstract Algebra – I** **Subgroups :** Definition of Subgroups, Examples of Subgroups, Necessary and Sufficient Condition for a Non-empty Subset of a Group to be a Subgroup. Normalizer, Centralizer, Centre of a Group, Product of Two Subgroups.	RPC	March -April
		Unit II	**Abstract Algebra – II** **Cyclic Groups :** Definition & Properties of Cyclic Groups, Classification of Subgroups of Cyclic Groups. **Symmetric & Alternating Group :** Cycle Notation for Permutations, even and odd Permutation, Idea of Symmetric Group and Alternating Group. **Coset :** Definition and Properties of Cosets, Lagrange's Theorem, Fermat's Little Theorem.	RPC	
		Unit III	**Abstract Algebra – III** **Normal Subgroup & Quotient Group:** Definition of Normal Subgroup & its Properties. Examples of Normal Subgroup, Concept of Quotient Group. Examples of Quotient Group. **Group Homomorphisms:** Definition & properties of Group Homomorphism. Correspondence Theorem, one-one correspondence between the set of all normal subgroups of a group & the set of all congruences on that Group, Cayley's Theorem, Properties of isomorphisms, First, Second & Third Isomorphism Theorems.	RPC	May
Internal Assessment **End of June**					
Tutorial Examination **1st week of July**					
Semester End Examination **End of July**					

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THIRD SEMESTER	CORE COURSE FIVE	Unit - I	**Limit of Functions :** Definition, Sequential criterion for limits, Algebra of limits, concept of one sided limits, infinite limits and limits at infinity, examples of important limits like $\frac{\sin x}{x}, \frac{\log(1+x)}{x}, \frac{a^x-1}{x}(a>0)$ as $x \to 0$. Properties and examples of continuous functions.	DH	August
		Unit - I	**Continuity of Functions :** Definition, Sequential criterion for continuity, concept of oscillation of a function at a point. Familiarity with the figures $y = x^a \left(a = 2,3,-1, \frac{1}{2}\right)$, $\lvert x \rvert$, $\sin x$, $\cos x$, $\tan x$, $\log x$, e^x. Concept of Bounded Functions, Intermediate Value Theorem. Discontinuity of Functions, Type of Discontinuity, Step Functions, Piecewise Continuity, Monotone Functions, Jump Discontinuity, Related Theorems. Uniform Continuity, Examples and non-examples of uniform continuity, Lipschitz Condition.	DH	Sept
		Unit – II	**Differentiability of Functions :** Definition, properties and meaning of sign of derivative, Chain Rule. Darboux Theorem, Rolle's Theorem, Mean Value Theorems of Lagrange and Cauchy.	RPC	Nov – Dec

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			Differentiability of Functions : Taylor's Theorem on closed and bounded interval with Lagrange's and Cauchy's form of remainder deduced from Lagrange's and Cauchy's mean value theorem. Expansion of $e^x, \log(1+x), (1+x)^m, \sin x, \cos x$ with their range of validity (assuming relevant theorem). Application of Taylor's Theorem. Statement of L' Hospitals rule and its consequences, Concept of extremum of a function of one variable, solve problems regarding maximum / minimum.	DH	
THIRD SEMESTER	CORE COURSE SIX	Unit I	**Ring Theory :** Definition and examples of Ring, properties of Rings, Subrings, necessary and sufficient condition for a non empty subset of a field to be a subfield, characteristic of Ring. Concept of Ideal, Prime and Maximal Ideals.	RPC	August
		Unit II	**Linear Algebra :** Definition and examples of Vector Space, Concept of Subspace, Algebra of Subspaces , related examples.	ARC	
		Unit I	**Ring Theory :** Ring homomorphism and its properties, First, Second & Third Isomorphism Theorem, Correspondence Theorem, congruence on rings, one-one correspondence between the set of ideals and the set of all congruences on a ring.	RPC	Sept
		Unit II	**Linear Algebra :** Linear combination of vectors, linear span, linear dependence and linear independence, basis and dimension. Dimension of subspaces, Geometric significance of subspaces, Quotient Spaces.	ARC	
		Unit II	**Linear Algebra :** Eigen values, Eigen vectors and Characteristic equation of a matrix,	ARC	Nov - Dec

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			Cayley Hamilton Theorem and its application. Linear Transformations, idea of Null Spaces, Range, Rank and Nullity of Linear Transformations, Matrix representation of a Linear Transformation, Isomorphism, Invertibility.		
THIRD SEMESTER	CORE COURSE SEVEN	Unit I	**ODE :** **First Order and First Degree Differential Equation :** Exact Differential Equations, Integrating Factor, Linear equations, Bernoulli's Equations, statement of Picard's theorem (Existence and uniqueness theorem) . **First Order and Higher Degree Differential Equation :** Differential Equations solvable for x, solvable for y, Solvable for p, Clairaut's Equations and singular solution.	NM	August
		Unit II	**Multivariate Calculus - I** Concept of neighbourhood of a point in R^n $(n > 1)$, interior point, limit point, open set and closed set in R^n $(n > 1)$.	SD	
		Unit I	**Ordinary Differential Equation :** **Linear systems**: Normal form, homogeneous linear systems with constant coefficients : Two Equations in two unknown functions. **Linear Differential equation of 2^{nd} order**: Wronskian : its properties and applications, Euler equation, Method of undetermined coefficients, Method of variation of parameters.	NM	Sept
		Unit II	**Multivariate Calculus - I** Functions from R^n $(n > 1)$ to R^m $(m \geq 1)$, limit and continuity of functions of two or more variables .	SD	

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			Unit I	**Ordinary Differential Equation :** **System of linear differential Equation**: Types of linear systems, differential operator, an operator method for linear systems with constant coefficients. **Planar linear autonomus system :** critical points, Interpretation of the phase plane and phase portraits. **Power series solution of a differential equation** : Solution about an ordinary point , Solution about a regular singular point (upto 2nd order).	NM	Nov – Dec
			Unit II	**Multivariate Calculus – I :** Partial derivatives, total derivatives and differentiability. Chain rule for one and two independent parameters, directional derivatives, the gradient, maximal and normal property of the gradient, tangent planes, extrema of functions of two variables , method of lagrange multipliers, constrained optimization problems.	MBS	
THIRD SEMESTER	SKILL ENHANCEMENT C	C PROGRAMMING LANGU	Unit I	**Fundamentals of Computer :** An overview of theoretical computers, history of computers, overview of architecture of computer, compiler, assembler, machine language, high level language, object oriented language, programming language and importance of C programming. **Introduction to C Programming :** Character Set, Constants & Variables data type, Expressions, Assignment Statements, Declaration.	ARC	August

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	O U R S E A	A G E	Unit I	**Introduction to C Programming :** Arithmetic Operators, Relational Operators, Logical Operators. Decision making with if statement, if-else statement, Nesting if else statement, switch statement, break and continue statement. **Control Statement:** while statement, do while statement, for statement.	ARC	Sept
			Unit II	**Introduction to C Programming :** **Arrays :** one dimension, two dimension and multidimensional arrays, declaration of arrays, initialization of one and multidimensional arrays. **User defined Functions :** Definition of functions, Scope of variables, return values and their type, function declaration, function call by value, nesting of functions, passing of arrays to functions, Recurrence of Function. **Introduction to Library Functions :** stdio.h, math.h, string.h, stdlib.h, time.h etc.	ARC	Nov – Dec
Internal Assessment End of November						
Tutorial Examination 1st week of December						
Semester End Examination End of December						
F O R T H S E M E S T E	C O R E C O U R S E E		Unit I	**Riemann Integration :** Partition and Refinement of a closed and bounded interval, Concept of U(P,f) and L(P,f) and its associated results, upper integral and lower integral, Darboux's theorem, Riemann's definition for integrability, Necessary and Sufficient condition for Riemann integrability.	RPC	Feb

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R	I G H T	Unit II	**Improper Integral :** Range of Integration ,finite or infinite , Necessary and Sufficient condition for convergence of improper integral in both cases.	MBS	
		Unit III	**Sequence of Function :** Sequence of functions defined on a set, Pointwise and uniform convergence, Cauchy criterion of uniform convergence, Weierstrass' M test, Boundedness, continuity, integrability and differentiability of the limit function of a sequence of functions in case of uniform convergence.	RPC	
		Unit I	**Riemann Integration :** Concept of Negligible Set , Suitable examples and its related theorems. A bounded function on closed and bounded interval is Riemann Integrable iff the set of point of discontinuity is negligible. Examples of Riemann integrable functions. Integrability of sum , scalar multiple, product, quotient, modulus of Riemann integrable function. Properties of Riemann integrable functions. Function defined by definite integral $\int_a^x f(t)dt$ and its properties, Antiderivative (Primitive or indefinite integral), Properties of logarithmic functions defined as the definite integral $\int_1^x \frac{dt}{t}, x > 0$.	RPC	Mar - April
		Unit II	**Improper Integral :** Test of Convergence : Comparison and M-test. Absolute and non-absolute convergence and inter-relations. Statement of Abel's and Dirichlet's test for convergence on the integral of a product.	MBS	
		Unit III	**Series of Functions :**	RPC	

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			Series of functions defined on a set, Pointwise and uniform convergence, Cauchy criterion of uniform convergence, Weierstrass' M test, Passage to the limit term by term, Boundedness, continuity, integrability and differentiability of a sequence of functions in case of uniform convergence. **Power Series :** Fundamental theorem of Power Series, Cauchy-Hadamard theorem, Determination of radius of convergence, uniform and absolute convergence of Power Series, Properties of sum function, Differentiation and integration of Power Series, Abel's limit theorem, Uniqueness of power series having sum function.		
		Unit I	**Riemann Integration :** Fundamental theorem of Integral Calculus. First Mean Value Theorem of Integral Calculus.	RPC	May
		Unit II	**Improper Integral :** Concept of Beta and Gamma functions and their interrelation. Computation of integrals $\int_0^{\pi/2} \sin^n x\,dx$, $\int_0^{\pi/2} \cos^n x\,dx$ and $\int_0^{\pi/2} \tan^n x\,dx$ (using Beta and Gamma function) .	MBS	
		Unit III	**Fourier Series :** Trigonometric series, Statement of sufficient condition for a trigonometric series to be a Fourier Series. Fourier Coefficients for periodic functions defined on $[-\pi,\pi]$. Statement of Dirichlet's condition of convergence. Statement of theorem of sum of Fourier Series.	RPC	

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FORTH SEMESTER	CORE COURSE NINE	Unit I	**Partial Differential Equation :** Partial Differential Equation of the first order, Lagrange's Solution, non-linear first order partial differential equation, Charpit's general method of solution, some special type of Equation which can be solved easily by methods other than the general method.	ARC	Feb
		Unit II	**Multivariate Calculus - II:** **Multiple Integral :** Concept of upper sum, lower sum, upper integral, lowers integral and double integral. Statement of existence theorem for continuous functions. Iterated or repeated integral, change of order of integration, triple integral.	MBS	
		Unit I	**Partial Differential Equation :** Derivation of Heat equation, Wave Equation and Laplace Equation. Classification of second order linear equations as hyperbolic, parabolic or elliptic. Reduction of second order linear equations to canonical forms. The Cauchy problem, Cauchy - Kowalewskaya theorem, Cauchy problem of finite and infinite string.	ARC	Mar - April
		Unit II	**Multivariate Calculus - II:** **Multiple Integral :** Cylindrical and spherical coordinates, Change of variables in double integral and triple integrals. Problems on transformation of double and triple integrals. Determination of volume and surface area by multiple integrals. Differentiation under the integral sign. Problems on Leibniz's rule. **Vector Calculus:** Definition of vector field, divergence and curl, Line integrals, application of line integrals : mass and work. Fundamental theorem for line integrals, conservative vector fields, independence of path.	MBS	

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		Unit I	**Partial Differential Equation :** Initial Boundary value problem, semi infinite string with a fixed end, semi – infinite string with a free end, equations with non-homogeneous boundary conditions, non-homogeneous wave equation, method of separation of variables, solving the vibrating string problem, solving the heat conduction problem.	ARC	May
		Unit II	**Multivariate Calculus - II:** **Vector Calculus:** Green's theorem, Surface integral, integrals over parametrical defined surfaces. Stoke's theorem, the Divergence theorem.	MBS	
FORTH SEMESTER	CORE COURSE TEN	Unit I	**Statics :** **Coplanar forces in general**	NM	Feb
		Unit III	**Mechanics :** **Kinematics of a particle :** Velocity, Acceleration, Angular Velocity, Linear and Angular Momentum, Relative Velocity and Acceleration. Expression of Velocity and Acceleration in case of Rectilinear Motion and Planar Motion – in Cartesian and Polar Coordinates, Tangential and Normal Components, Uniform Circular Motion.	NM	
		Unit V	**Rigid Dynamics :** **The linear momentum Principle :** Linear Momentum, Linear Momentum Principle.	ARC	
		Unit I	**Statics :** **An arbitrary force System in space.** **Equilibrium in the presence of sliding Friction force.** **Virtual work.**	NM	Mar - April
		Unit III	**Mechanics :** **Newton's Laws of Motion and Law of Gravitation :**	NM	

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				Space, Time, Mass, Force, Inertial Reference Frame, Principle of Equivalence. Vector equation of motion. Work, Power, Kinetic Energy, Conservative Forces – Potential energy. Existence of potential energy function **Problems in particle dynamics. Planar motion of a particle.**		
			Unit V	**Rigid Dynamics :** **The linear momentum Principle :** Motion of the Centre of Mass, Conservation of Linear Momentum. **The angular momentum principle :** Moment of a force about a point, about an axis. Angular momentum about a point, about an axis. Angular momentum Principle about Centre of Mass, Conservation of Angular Momentum (about a point and an axis). Impulsive forces. **The Energy Principle :** Configuration and degree of freedom of a multi-particle system, energy principle, energy conservation.	ARC	
			Unit I	**Statics :** **Stability of Equilibrium.**	NM	May
			Unit III	**Mechanics :** **Planar motion of a particle.**	NM	
			Unit V	**Rigid Dynamics :** **The Energy Principle :** Rocket motion in free space and under gravity, Collision of elastic bodies. The two-body problem.	ARC	
F O R T H S	S K I L L E	M A T H E M A	Unit I	**Introduction to Mathematical Logic :** Propositions , Truth Table, Negation , Conjunction & Disjunction. Implications, Biconditional Propositions, Converse , Contra positive and Inverse	MBS	Feb

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E M E S T E R	N H A N C E M E N T C O U R S E B	T I C A L L L O G I C		Propositions, Preceedence of Logical Operators. Formal Language , Object and Meta Language.		
			Unit II	**Propositional Logic :** Formal Theory for Propositional Calculus, Derivation, Proof, Theorem, CNF & DNF, Semantics, Tautology, Adequate set of Connectives, Switching Circuits, Consistency, Leindenbaum Lemma, Soundness and Completeness Theorem.	MBS	March - April
			Unit III	**Predicate Logic :** First Order Language, Free and Bound Variables, Interpretation and Satisfiability, Models and Logical Validity.		
			Unit III	**Predicate Calculus :** Formal Theory for Predicate Calculus, Theorems and Derivations, Deductions Theorem and Equivalence Theorem, Replacement Theorem, Choice Rule, Prenex Normal Form , Soundness Theorem, Completeness Theorem and Compactness Theorem, First Order Theory with Equality and its examples.	MBS	May
Internal Assessment **End of June**						
Tutorial Examination **1st week of July**						
Semester End Examination **End of July**						
T H I R D Y E A R	5A		Mod IX	**Analysis III:** Compactness in IR, Function of bounded variation (BV), Riemann integration.	RPC	August
	5B		Mod X	**Tensor Calculus :** Transformation of Coordinates, Summation Convention, covariant and contravariant and mixed tensors, invariants, Kronecker delta, algebra of tensors, symmetric and skew symmetric tensors, addition and scalar	ARC	

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			multiplication, contraction, outer and inner product of tensors, Quotient Law.		
	6A	Mod XI	**Vector Calculus II :** Line integrals, circulation, irrotational vectors, work done, conservative force.	SD	
	6A	Mod XI	**Analytical Statics II:** Centre of Gravity	ARC	
	6A	Mod XI	**Analytical Dynamics of A Particle II:** Central forces and central orbits, Planetary motion and Kepler's laws.	NM	
	7B	Mod XIV	**Probability:** Random experiments. Simple and compound events. Event space. Classical and frequency definitions of probability and their drawbacks. Axioms of Probability. Statistical regularity. Multiplication rule of probabilities. Bayes' theorem. Independent events. Independent random experiments. Independent trials. Bernouli trials and binomial law. Poisson trials.	DH	
	8A	Mod XV	**Numerical Analysis:** What is Numerical Analysis ? Errors in Numerical computation, Operators.	NM	
	8B	Mod XVI	**Practical:** INTERPOLATION	NM	
	5A	Mod IX	**Analysis III:** Sequence and Series of functions of a real variable, Power Series.	RPC	Sept
	5B	Mod X	**Tensor Calculus :** Riemann space, line element. Christoffel Symbols and their Laws of transformation.	ARC	
	5B	Mod X	**Differential Equations II :** Laplace Transformation and its application in ODE. Power Series Solution at an ordinary point.	ARC	
	6A	Mod XI	**Vector Calculus II :** Green's Theorem, Stoke's Theorem, Divergence Theorem.	SD	
	6A	Mod XI	**Analytical Statics II** : Virtual work.	ARC	
	6A	Mod XI	**Analytical Dynamics of A Particle II:**, Motion of a smooth cure under resistance, Varying mass problems. Linear dynamical systems, preliminary notions.	NM	

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	7B	Mod XIV	**Probability:** Random variables. Probability distribution. Distribution function. Discrete and continuous distributions. Binomial, Poisson, Gamma, Uniform and Normal distribution. Poisson Process(only definition). Transformation of random variables.	DH	
	8A	Mod XV	**Numerical Analysis:** Interpolation, Numerical Differentiation	NM	
	8B	Mod XVI	**Practical:** Numerical Differentiation, Numerical Integration, Solution of Equations.	NM	
	5B	Mod X	**Modern Algebra III:** Normal sub-groups of a Group, Homomorphism and Isomorphism of Groups.	RPC	Oct-Nov
		Mod X	**Linear Algebra II:** Linear transformation (L.T.) on Vector Spaces, Linear Transformation and Matrices.	ARC	
	6A	Mod XI	**Analytical Statics II** : Stable and unstable equilibrium, Forces in the three dimensions.	ARC	
	6B	Mod XII	**Hydrostatics:** Fluid. Perfect Fluid, Pressure, centre of pressure.	MBS	
	6B	Mod XII	**Rigid Dynamics:** Momental ellipsoid, Equimomental system. Principal axis. D'Alembert's principle, Equation of motion of a rigid body about a fixed axis, Compound pendulum.	NM	
	7A	Mod XIII	**Analysis IV:** Improper Integral	RPC	
	7A	Mod XIII	**Complex Analysis :** Extended complex plane, stereographic projection. Complex function : limit, continuity.	SD	
	7A	Mod XIII	**Metric Space**	DH	
	7B	Mod XIV	**Probability:** Two dimensional probability distributions. Discrete and continuous distributions in two dimensions.Uniform distribution and two dimensional normal distribution. Conditional distributions. Transformation of random variables in two dimensions. Mathematical expectation. Mean, variance, moments, central moments.	DH	

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			Measures of location, dispersion, skewness and kurtosis. Median, mode, quartiles.		
	7B	Mod XIV	**Statistics:** Random sample. Concept of sampling and various types of sampling. Sample and population. Collection, tabulation and graphical representation. Grouping of data.Sample characteristic and their computation. Sampling distribution of a statistic. Estimates of a population characteristic or parameter. Unbiased and consistent estimates. Sample characteristics as estimates of the corresponding population characteristics. Sampling distributions of the sample mean and variance. Exact sampling distributions for the normal populations. Bivariate samples. Scatter diagram. Sample correlation co-efficient. Least square regression lines and parabolas. Estimation of parameters. Method of maximum likelihood. Applications to binomial, Poisson and normal population.	DH	
	8A	Mod XV	**Numerical Analysis:** Numerical Integration, Numerical solution of non-linear equations	NM	
	8A	Mod XV	**Computer Programming :** Fundamentals of Computer, Number System, Boolean Algebra, Algorithm, Flow chart.	ARC	
	8B	Mod XVI	**Practical:** Solution of System of Linear Equations, Dominant Eigen pair.	NM	
	6B	Mod XII	**Hydrostatics:** Equilibrium of fluids in given fields of force, Rotating fluids. The stability of the equilibrium of floating bodies, Pressure of gases.	MBS	Dec
	6B	Mod XII	**Rigid Dynamics:** Equations of motion of a rigid body moving in two dimensions, Equations of motion under impulsive forces.	NM	
	7A	Mod XIII	**Analysis IV:** Beta and Gamma function, Fourier series, Multiple integral.	RPC	
	7A	Mod XIII	**Complex Analysis :** Differentiability, analytic function, C-R equation, Harmonic Functions.	SD	

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	7B	Mod XIV	**Probability:** Moment generating function. Characteristic function. Two-dimensional expectation.Covariance, Correlation co-efficient, Joint characteristic function. Multiplication rule for expectations. Conditional expectation. Regression curves, least square regression lines and parabolas. Chi-square and *t*-distributions and their important properties (Statements only). Tchebycheff's inequality. Convergence in probability. Statements of : Bernoulli's limit theorem. Law of large numbers. Poissons's approximation to binomial distribution and normal approximation to binomial distribution. Concepts of asymptotically normal distribution. Statement of central limit theorem in the case of equal components and of limit theorem for characteristic functions.	DH	
	7B	Mod XIV	**Statistics:** Confidence intervals. Interval estimation for parameters of normal population.Statistical hypothesis. Simple and composite hypothesis. Best critical region of a test. Neyman-Pearson theorem (Statement only) and its application to normal population. Likelihood ratio testing and its application to normal population. Simple applications of hypothesis testing.	DH	
	8A	Mod XV	**Numerical Analysis:** Numerical solution of a system of linear equations. Eigenvalue Problems, Numerical solution or Ordinary Differential Equation.	NM	
	8A	Mod XV	**Computer Programming :** Introduction to C programming	ARC	
	8B	Mod XVI	**Practical:** Numerical Solution of first order ordinary Differential Equation, Problems of Curve Fitting.	NM	
	8B	Mod XVI	**Practical:** ON COMPUTER	NM	
	T E S T E X A M I N A T I O N I N J A N U A R Y				

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Department of Mathematics

Academic Plan 2019-2020

Subject: Mathematics General

Year/ Sem	Paper/ Course	Module / Unit	Topic	Name of the teacher	Month
FIRST SEMESTER	CORE COURSE ONE	UNIT I	**Algebra – I :** Complex Numbers – De Moivers' Theorem and its application, Exponential, Sine, Cosine & logarithm of Complex Number	ARC	August
		UNIT II	**Differential Calculus - I:**Rational number and its geometrical representation , Irrational Number, Concept of Real line & basic properties of Real Number.	DH	
		UNIT III	**Differential Equation - I:** Order , Degree and Formation of ODE.	ARC	
		UNIT IV	**Coordinate Geometry:** Transformations of Rectangular Axes	NM	
		UNIT I	**Algebra – I :** Complex Numbers – Definition of a^z , Inverse Circular and Hyperbolic Function. Polynomials - Fundamental Theorem of Algebra, Nature of Roots of a Polynomial Equation of degree n, Statement of Descarte's Rule of sign and its application. Rolle's Theorem & its direct applications, Relation between roots and coefficients, Symmetric Functions of Roots, Transformation of Equations.	ARC	Sept

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		UNIT II	**Differential Calculus - I:**Real – Valued Functions defined on an interval, Limit, Continuity of a function, Inverse function , Strictly Monotone Function and its Continuity. Geometrical & Physical interpretation of Derivative, Sign of Derivative, Application of derivative finding approximation. Successive Derivative - Leibnitz's Theorem and its application	DH	
		UNIT III	**Differential Equation - I:** First order equations – Exact Equation, Euler's and Bernoulli's Equation, Clairaut's Equation, General & Singular Solution. Second Order Linear Equation with Constant Coefficients.	ARC	
		UNIT IV	**Coordinate Geometry:** General Equation of Second Degree in X and Y. Pair of Straight lines. Equations of pair of tangents, Chord of contact, Poles and Polars in case of Conic (Parabola, Ellipse, Circle, Hyperbola)	NM	
		UNIT I	**Algebra – I :** Cardan's Method of solution of a cubic equation. Rank of a matrix. Solution of System of linear equations with not more than 3 variables by matrix method.	ARC	Nov
		UNIT II	**Differential Calculus - I:**Functions of Two and Three Variables - Geometrical Representation, limit, continuity, Partial Derivatives, Chain Rule, Exact Differentials, Schwarz's Theorem and Eulers's Theorem for Homogeneous Functions . Application of Differential Calculus : Curvature, Asymptote, Envelope, Singular Points.	DH	
		UNIT III	**Differential Equation - I:** Second Order Differential Equation – Method of variation of parameters, Method of undetermined coefficients.	ARC	
		UNIT IV	**Coordinate Geometry:** Polar equation of straight lines and Circles and Conic referred to a focus as pole. Tangent and Normal. Sphere and its tangent plane. Right Circular Cone.	NM	
Internal Assessment End of November					

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Tutorial Examination **1st week of December**					
Semester End Examination **End of December**					
SECOND SEMESTER	CORE COURSE TWO	UNIT I	**Differential Calculus II :** Sequence of real numbers	NM	Feb
		UNIT II	**Differential Equation –II :** Linear Homogeneous Equation with Constant Coefficients, Linear non-homogeneous equations, The method of variation of parameter.	ARC	
		UNIT III	**Vector Algebra :** Addition of Vectors , Multiplication of a vector by a scalar.	ARC	
		UNIT IV	**Discrete Mathematics :** Integers	MBS	
		UNIT I	**Differential Calculus II :** Infinite Series of Constant Terms	NM	March
		UNIT II	**Differential Equation –II :** The Cauchy Euler equation,Simultaneous Differential Equations, Simple eigen value problem.	ARC	
		UNIT III	**Vector Algebra :** Collinear and Coplanar Vectors, Scalar and Vector Products	ARC	
		UNIT IV	**Discrete Mathematics :** Congruences	MBS	
		UNIT I	**Differential Calculus II :** Real Valued Functions defined on an interval (Rolle's Theorem, Mean Value Theorem, Taylor's and Maclaurins Theorem) , Indeterminate Forms, Problems on Maxima and Minima of functions.	NM	April - May
		UNIT II	**Differential Equation –II :** Partial Differential Equation	ARC	
		UNIT III	**Vector Algebra :** Vector Equation of Plane and Straight line, Volume of Tetrahedron, Applications to problems of Mechanics (Work Done and Mechanics)	ARC	
		UNIT IV	**Discrete Mathematics :** Application of Congruences , Congruence Class, Boolean Algebra	MBS	
Internal Assessment **End of June**					

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Tutorial Examination **1st week of July**					
Semester End Examination **End of July**					
THIRD SEMESTER	CORE COURSE THREE	UNIT I	**Integral Calculus :** Evaluation of Definite Integrals . Integration as the limit of a sum.	DH	Aug
		UNIT II	**Numerical Methods :** Approximate Numbers , Significant Figures , Rounding of Numbers. Error : Absolute , Relative and Percentage. Operators : Δ , ∇& E.	NM	
		UNIT III	**Linear Programming :** Formulation of L.P.P. , Convex Set , Hyperplane, Extreme Points, Convex Polyhedron, Basic Solutions & B.F.S. , Degenerate and Non-degenerate B.F.S. . Theorems on L.P.P.	ARC	
		UNIT I	**Integral Calculus :** Reduction Formula , Improper Integrals and Beta & Gamma Functions.	DH	Sept
		UNIT II	**Numerical Methods :** Interpolation	NM	
		UNIT III	**Linear Programming :** Solution by Graphical Method , Simplex Method & Simplex Algorithm , Duality.	ARC	
		UNIT I	**Integral Calculus :** Double Integral , Rectification , Quadrature, Volume and Surface Areas.	DH	Nov
		UNIT II	**Numerical Methods :** Numerical Integration &Solution of Numerical Equation.	NM	
		UNIT III	**Linear Programming :** Transportation & Assignment Problem.	ARC	
	Internal Assessment **End of November**				
	Tutorial Examination **1st week of December**				
	Semester End Examination **End of December**				

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	SKILL ENHANCEMENT COURSE A	C PROGRAMMING LANGUAGE	Unit I	**Fundamentals of Computer :** An overview of theoretical computers, history of computers, overview of architecture of computer, compiler, assembler, machine language, high level language, object oriented language, programming language and importance of C programming. **Introduction to C Programming :** Character Set, Constants & Variables data type, Expressions, Assignment Statements, Declaration.	ARC	August
				Introduction to C Programming : Arithmetic Operators, Relational Operators, Logical Operators. Decision making with if statement, if-else statement, Nesting if else statement, switch statement, break and continue statement. **Control Statement:** while statement, do while statement, for statement.	ARC	Sept
			Unit II	**Introduction to C Programming : Arrays :** one dimension, two dimension and multidimensional arrays, declaration of arrays, initialization of one and multidimensional arrays. **User defined Functions :** Definition of functions, Scope of variables, return values and their type, function declaration, function call by value, nesting of functions, passing of arrays to functions, Recurrence of Function. **Introduction to Library Functions :** stdio.h, math.h, string.h, stdlib.h, time.h etc.	ARC	Nov - Dec
Internal Assessment End of November						

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Semester End Examination End of December					
FORTH SEMESTER	CORE COURSE FOUR	UNIT I	**Algebra - II :** Group Theory	MBS	Feb
		UNIT II	**Computer Science & Programming :** Fundamentals of Computer Science	ARC	
		UNIT III	**Probability & Statistics :** Random experiment, Outcome, Event, Mutually Exclusive Events, Equally likely and Exhaustive Events. Classical definition of probability, Theorems of Total Probability, Conditional probability and Statistical Independence. Baye's Theorem and its application, Shortcoming of the classicaldefinition. Axiomatic approach problems.	NM	
		UNIT I	**Algebra - II :** Ring , Field . Vector Space.	MBS	March
		UNIT II	**Computer Science & Programming :** Number System , Algorithm & Flow Chart.	ARC	
		UNIT III	**Probability & Statistics :** Random Variable and its Expectation, Theorems on mathematical expectation. Joint distribution of two random variables. Theoretical Probability Distribution Discrete and Continuous (p.m.f., p.d.f.) Binomial, Poisson and Normal distributions and their properties.	NM	
		UNIT I	**Algebra - II :** Real Quadratic Form. Eigen Value , Eigen Vectors and Cayley Hamilton Theorem.	MBS	April - May
		UNIT II	**Computer Science & Programming :** Simple Programs in Fortran 77/90	ARC	
		UNIT III	**Probability & Statistics :** Statistical Method , Sampling Theory , Bivariate Frequency Distribution, Scatter Diagram, Co-relation Coefficient, Regression Lines.	NM	
Internal Assessment **End of June**					

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Tutorial Examination **1st week of July**						
Semester End Examination **End of July**						
FORTH SEMESTER	SKILL ENHANCEMENT COURSE B	MATHEMATICAL LOGIC	Unit I	**Introduction to Mathematical Logic :** Propositions , Truth Table, Negation , Conjunction & Disjunction. Implications, Biconditional Propositions, Converse , Contra positive and Inverse Propositions, Preceedence of Logical Operators. Formal Language , Object and Meta Language.	MBS	Feb
			Unit II	**Propositional Logic :** Formal Theory for Propositional Calculus, Derivation, Proof, Theorem, CNF & DNF, Semantics, Tautology, Adequate set of Connectives, Switching Circuits, Consistency, Leindenbaum Lemma, Soundness and Completeness Theorem.	MBS	March - April
			Unit III	**Predicate Logic :** First Order Language, Free and Bound Variables, Interpretation and Satisfiability, Models and Logical Validity.	MBS	
			Unit III	**Predicate Calculus :** Formal Theory for Predicate Calculus, Theorems and Derivations, Deductions Theorem and Equivalence Theorem, Replacement Theorem, Choice Rule, Prenex Normal Form , Soundness Theorem, Completeness Theorem and Compactness Theorem, First Order Theory with Equality and its examples.	MBS	May
Internal Assessment **End of June**						
Semester End Examination **End of July**						
THIRD YEAR	FOURTH PAPER		Mod VII	**Computer Science & Programming :** Boolean Algebra , Switching Circuit . Number System.	ARC	August
			Mod VIII	**Calculus :** Sequence of Functions & Series of Functions.	DH	
				OR		

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R	P E R		**Discrete Mathematics :** Integers	DH	
		Mod VII	**Computer Science & Programming :** Fundamentals of Computer Science . Algorithm and Flow Chart	ARC	Sept
		Mod VIII	**Calculus :** Fourier Series. Third & Fourth Order Ordinary Differential Equation with Constant Coefficients. Euler Homogeneous Equation	DH	
			OR		
			Discrete Mathematics : Congruences and its applications	DH	
		Mod VII	**Computer Science & Programming :** Simple Programs in Fortran 77/95	ARC	Nov - Dec
		Mod VIII	**Calculus :** Variation of Parameters , Undermined Coefficients , Simple Eigen Value Problem. Simaltaneous linear Differential Equation with Constant Coefficient. Laplace Transform. Partial Differential Equation.	DH	
			OR		
			Discrete Mathematics : Congruence Class. Recurrence Relations & Generating Functions. Boolean Algebra.	DH	
M I D T E R M T E S T I N N O V E M B E R					
T E S T I N J A N U A R Y					

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Academic Plan
Department of Sociology
Session: 2019-20

B.A. 1st Year General Course
Semester-1, Paper: GE/CC-1
(Introduction to Sociology)

Group-A	**1.Sociology: Discipline and Perspective**		**Time**
	1.1	Nature and Scope of Sociology.	July to Aug
	1.2	Sociology as a science.	
	1.3	Sociology and Common Sense	
Group-B	**2.Sociology and Other Social Sciences**		**Time**
	2.1	Sociology and Social Anthropology	Aug to Sep
	2.2	Sociology & Psychology	
	2.3	Sociology & History	
Group-C	**3.Basic Concepts**		**Time**
	3.1	Individual and Group	Nov to Dec
	3.2	Association and Institutions	
	3.3	Culture and Society	
	3.4	Social Change	

B.A. 2nd Year General Course
Semester-3, Paper: CC/GE-3
(Sociological Theories)

Group-A	**1.Emergence of Sociology as a new discipline: A brief account**		**Time** Aug
Group-B	**2.Karl Marx**		**Time**
	2.1	Materialist Conception of History	Sept
	2.2	Class and Class Struggle	
Group-C	**3.Emile Durkheim**		**Time**
	3.1	Social Fact	Nov
	3.2	Forms of Solidarity	
Group-D	**4.Max Weber**		**Time**
	4.1	Ideal Types and Social Action	Dec
	4.2	Types of Authority	

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B.A. 2nd Year General Course
Semester-3, Paper: SEC-A-(1)
(Techniques of Social Research)

Group-A	**1.Research Design**		**Time**
	1.1	Formulation of research problem	Aug
	1.2	Framing research questions	
Group-B	**2.Data Collection**		**Time**
	2.1	Secondary sources: Reading & Reviewing appropriate literature	Sept
	2.2	Sampling frameworks; Probability & Non-Probability	
	2.3	Primary sources: Methods of data collection; Questionnaire; Interview; preparation & framing; limitations	
Group-C	**3.Data Analysis**		**Time**
	3.1	Data Recording, Coding, Processing and interpretation	Oct to Nov
	3.2	Content analysis	
	3.3	Case Study Method	
Group-D	**4.Project Report Writing**		**Time**
	4.1	Writing social research report; some basic considerations	Dec
	4.2	Organization of the report	
	4.3	Reference & Bibliography	

B.A. 1st Year General Course
Semester-2, Paper: CC/GE-2
(Sociology of India)

Group-A	**1.India as a Plural Society**			**Time**
	1.1	Unity and Diversity		Up to 15th Jan
	1.2	Problems of National Unity		
Group-B	**2.Social Institutions and Practices**			**Time**
	2.1	Caste		Jan to Mar
		2.1.1	Sanskritization	
		2.1.2	Changing Aspects	
	2.2	Tribe		
		2.2.1	Features	
		2.2.2	Tribes in contemporary India	
	2.3	Class		
		2.3.1	Rural class	
		2.3.2	Urban class	
	2.4	Village		

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		2.4.1	Self-sufficient village community	
	2.5	Family and Kinship		
		2.5.1	Types of family	
		2.5.2	Kinship in India	
Group-C	**3.Identities and Change**			**Time**
	3.1	Dalits' Movement		April
	3.2	Women's Movement		
Group-D	**4.Challenges to State and Society**			**Time**
	4.1	Communalism		May to June
		4.1.1	Problems	
		4.1.2	Solution	
	4.2	Secularism		
		4.2.1	Concept	
		4.2.2	Nature	

B.A. 2nd Year General Course
Semester-4, Paper: CC/GE-4
(Methods of Sociological Enquiry)

Group-A	**1.The Logic of Social Research**		**Time**
	1.1	Concept; Variables; Propositions	Jan to Feb
	1.2	Conceptualization and Operationalization	
	1.3	Formulation and Verification of Hypotheses	
	1.4	Research Design: Exploratory, Explanatory, Descriptive	
	1.5	Sampling Logic: Probability and Non-probability	
Group-B	**2.Methodological Perspectives**		**Time**
	2.1	The Positivist Method	Feb to March
	2.2	The Interpretative Method	
	2.3	The Comparative Method	
	2.4	The Ethnographic Method	
Group-C	**3.Modes of Enquiry**		**Time**
	3.1	Theory and Research	April to June
	3.2	Quantitative & Qualitative: Survey & Experimental Research: Qualitative Field Research & Unobtrusive Research-Types, Tools & Techniques	
	3.3	Analysis & Interpretation of Data: Quantitative & Qualitative	

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B.A. 3rd Year General Course
Paper-IV
(Social Problems in India)

	Group-A		Time
Term-I	Module-I	(a)Concepts of social disorganization and social problem (b) Population problem, Poverty in rural and urban areas	

	Group-A		Time
Term-II	Module-II	(a)Child labour, Problems of the youth, Old age problem	
		(B)Violence against women, women and inequality in education and work place	

	Group-B		Time
Term-III	Module-III	(a)Mass illiteracy, Juvenile delinquency, Drug addiction	
		(b)Crime in men and women	
	Module-IV	(a) Communalism, Ethnicity, problems of national integration	
		(b)Environmental problems, Terrorism, Problems of cyber crime	

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Academic Plan 2019-20

Subject: Statistics

ACADEMIC PLAN – STATISTICS (General)

Semester-I(GE1/CC1)

Semester I	Name of the paper	Topic/Unit	Name of the teacher	Month
		Unit I		
	Descriptive Statistics	Definition and scope of Statistics, concepts of statistical population and sample. quantitative and qualitative, attributes, variables, scales of measurement - nominal, ordinal, interval and ratio.	Asgar Ali	Aug

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		Frequency Distribution, Cumulative Distribution and their graphical representation, Histogram . Frequency Polygon, Frequency curve and Ogive	AA	Aug
		Internal Test		Sept
		Unit II		
		Measures of Central Tendency: mathematical and positional. Measures of Dispersion: range, quartile deviation, mean deviation, standard deviation	AA	Sept

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		coefficient of variation, moments, skewness and kurtosis.	AA	Oct
		Internal Test		Oct
		Unit III		
		Bivariate data: Definition, scatter diagram, simple, partial and multiple correlation (3 variables only), rank correlation (Spearman).	AA	Nov

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		Simple linear regression, principle of least squares and fitting of polynomials and exponential curves.	AA	Nov
		Internal Test		Nov
		Final University Exam		Dec

Academic Plan 2018-19

Subject: Statistics(General)

Semester-III(GE3/CC3): Introduction to Statistical Inference

Semester III	Name of the paper	Topic/Unit	Name of the teacher	Month

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		Unit I		
	Introduction to Statistical Inference	Population and Sample, Parameter and Statistic, Population distribution and Sampling distribution.	AA	Aug
		Statistical Inference: Point Estimation, Interval Estimation and Testing of Statistical Hypothesis.	AA	Aug
		Internal Test		Sept
		Unit II		

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		Estimation of population mean, confidence intervals for the parameters of a normal distribution (one sample and two sample problems). The basic idea of significance test. Null and alternative hypothesis. Type I& Type II errors, level of significance, concept of p-value. Tests of proportions.	AA	Sept

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		Tests of hypotheses for the parameters of a normal distribution(one sample and two sample problems). Sign test	AA	Oct
		Internal Test		Oct
		Unit III		
		Analysis of variance, one-way and two-way classification.	AA	Nov

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		Brief exposure of three basic principles of design of experiments, Statistical concepts of “treatment”, “plot” and “block”. Analysis of completely randomized design, randomized complete block design.	AA	Nov
		Internal Test		Nov
		Final University Exam		Dec

Academic Plan 2019-20

Subject: Statistics(General)

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Semester-II(GE2/CC2): Elementary Probability Theory

Semester II	Name of the paper	Topic/Unit	Name of the teacher	Month
		Unit I		
	Elementary Probability Theory	Probability: Introduction, random experiments, sample space, events and algebra of events. Definitions of Probability – classical, statistical, and axiomatic.	AA	Jan

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		Conditional Probability, laws of addition and multiplication, independent events, theorem of total probability, Bayes' theorem and its applications.	AA	Feb
		Internal Test		Feb
		Unit II		

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		Random Variables: Discrete and continuous random variables, p.m.f., p.d.f., c.d.f. Illustrations of random variables and its properties. Expectation, variance, moments.	AA	Mar
		Internal Test		Mar
		Unit III		

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		Standard probability distributions: Binomial, Poisson, geometric, negative binomial, Uniform, normal, exponential.	AA	Apr
		Weak law of large numbers and Lindeberg-Levy Central Limit Theorem (C.L.T).		May
		Internal Test		May
		Final University Exam		Jun

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Principal
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Academic Plan 2018-19

Subject: Statistics(General)

Semester-IV(GE4/CC4) Applications of Statistics

Semester IV	Name of the paper	Topic/Unit	Name of the teacher	Month
		Unit I		

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	Applications of Statistics	Concept of population and sample, complete enumeration versus sampling, sampling and non-sampling errors. Types of sampling: non-probability and probability sampling, basic principle of sample survey, simple random sampling with and without replacement, definition and procedure of selecting a sample, estimates of: population mean, total and proportion, variances of these estimates, estimates of their variances.	AA	Jan

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		Stratified random sampling: Technique, estimates of population mean and total, variances of these estimates, estimates of their variances, proportional and optimum allocations.	AA	Feb
		Internal Test		Feb
		Unit II		

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		Index numbers: Definition, Criteria for a good index number, different types of index numbers. Construction of index numbers of prices and quantities, consumer price index number & wholesale price index number. Uses and limitations of index numbers. Tests for index numbers	AA	Mar

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		Economic Time Series: Components of time series, Decomposition of time series- Additive and multiplicative model with their merits and demerits, Illustrations of time series. Measurement of trend by method of free-hand curve, method of least squares. Moving average method.	AA	
		Internal Test		Mar
		Unit III		

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		Demographic Methods: Introduction, measurement of population, rates and ratios of vital events. Measurement of mortality: CDR, SDR (w.r.t. Age and sex), IMR, Standardized death rates.	AA	Apr
		Life (mortality) tables: definition of its main functions and uses. Measurement of fertility and reproduction: CBR, GFR, and TFR. Measurement of population growth: GRR, NRR.	AA	May
		Internal Test		May
		Final University Exam		Jun

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ACADEMIC PLAN for Part-III 2019-20

ACADEMIC PLAN – STATISTICS (General) Part-III

Year	Name of the paper	Paper	No.of Module	Topic/Unit	Name of the teacher	Month
3rd		III		Unit I		
	Sample Survey Methods:		Mod 1	Concepts of population and sample, Need for sampling, Stages in the design and conduct of sample surveys**.** .	Asgar Ali	Aug
			Mod2	Concept of probability sampling, Random Number tables. Simple random sampling with and without replacement .	AA	Sept

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Year	Name of the paper	Paper	No.of Module	Topic/Unit	Name of the teacher	Month
			Mod 3	Stratified random sampling – associated unbiased estimators of population mean, total and proportion, their variances and unbiased variance estimators.	AA	Sept
			Mod 4	Linear Systematic sampling, Two-stage sampling (with primary units of equal size and equal selection probability at each stage) – unbiased estimation of population mean and total.	AA	Sept
				CLASS TEST		
	Design & Analysis of Experiments		Mod 5	Analysis of Variance in one-way classified data and two-way classified data with equal number of observations in each cell..	Riddhi Das Majumdar	Oct

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Year	Name of the paper	Paper	No.of Module	Topic/Unit	Name of the teacher	Month
			Mod 6	Basic principles of design – Randomization, Replication and Local Control, Completely Randomized design	RDM	Nov
			Mod 7	Randomized Block design and Latin Square design, applications of the technique of Analysis of Variance for the analysis of data collected under these designs.	RDM	Dec
				MID TERM TEST		
				Revision	RDM	Jan
				SELECTION TEST		Feb
				University Examination		April

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