

# ACADEMIC PLAN 2022-23



DEPARTMENT OF BENGALI

***K. K. DAS COLLEGE***

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

# 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 ধারণা	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, শ্রীকৃষ্ণকীর্তন	PC	Sep-Jan
II	অনুবাদ সাহিত্য – ভাগবত, রামায়ন ও মহাভারত	SP	Sep-Jan
	বৈষ্ণব পদাবলী – বিদ্যাপতি, চন্দীদাস, জ্ঞানদাস, গোবিন্দদাস	SP	Sep-Jan
	চৈতন্য-চরিত সাহিত্য – চৈতন্যভাগবত, শ্রীচৈতন্যচরিতামৃত	SP	Sep-Jan
III	মঙ্গলকাব্যের উদ্ভব ও বিকাশ	AB	Sep-Jan
	মনসামঙ্গল, ধর্মমঙ্গল, চন্দীমঙ্গল ও অনন্যমঙ্গল	AB	Sep-Jan
	প্রণয়োপাখ্যান – শাহ মহম্মদ সগীর, দৌলত কাজী ও আলাওল	AB	Sep-Jan
	শাক্ত পদাবলী – রামপ্রসাদ সেন ও কমলাকান্ত ভট্টাচার্য	AB	Sep-Jan

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

বর্ণনামূলক ভাষাবিজ্ঞান ও বাংলাভাষা

Faculty: Dr. Anunoy Chatterjee (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, বাংলা ভাষার উপভাষা	AR	Sep-Jan
III	বাংলা ভাষার রূপতাত্ত্বিক আলোচনা – বচন, লিঙ্গ, পুরুষ, সমাস, 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 Chatterjee (AC) Dr. Putul Chakraborty (PC),  
Sripati Pramanik (SP)

	Topic	Faculty	Month
<b>Module I</b> কাব্য-কবিতা ও নাটক-প্রহসন	বাংলা কাব্যে আধুনিকতার সঞ্চার – প্রেক্ষাপট ও স্বরূপ	SP	Feb-June
	আধুনিক বাংলা নাটকের উদ্ভব ও বিকাশ	AC	Feb-June
<b>Module II</b> 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
<b>Module III</b> 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	PC	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 Chatterjee (AC) Dr. Putul Chakraborty (PC),  
Sripati Pramanik (SP) & Anamika Roy (AR)

	Topic	Faculty	Month
<b>Module I</b> কবিতা	১৬ টি নির্বাচিত বাংলা কবিতা	AB	Feb-June
<b>Module II</b> 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
<b>Module III</b> নাটক ও গদ্য প্রবন্ধ	দীনবন্ধু মিত্র - নীলদর্পন	AC	Feb-June
	রবীন্দ্রনাথ ঠাকুর - বাজেকথা, প্রমথ চৌধুরী - বইপড়া	SP	Feb-June
	অবনীন্দ্রনাথ ঠাকুর - সৌন্দর্যের সন্ধান, 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. Anjana Brahma(AB) Dr. Anunoy Chatterjee (AC) Dr. Putul Chakraborty (PC), Sripati Pramanik (SP)

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

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

ঐতিহাসিক ভাষাবিজ্ঞান

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

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

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

কথাসাহিত্য

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

Sripati Pramanik (SP)

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

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

### ব্যবহারিক বাংলা - ১

Faculty: Dr. Anunoy Chatterjee (AC) Dr. Anjana Brahma (AB)

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

## 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-June
II	চন্দীমঙ্গল (১ম খন্ড) – মুকুন্দ চক্রবর্তী	PC	Feb-June
III	শাক্ত পদাবলী	SP	Feb-June

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

#### ছন্দ, অলংকার ও কাব্যতত্ত্ব

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

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

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

#### প্রবন্ধ ও বিবিধ রচনা

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

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

### Skill Enhancement Course (SEC): BNG-A-SEC-B-4-2-TH

#### ব্যবহারিক বাংলা - ২

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

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

## Semester- V

### Bengali Core Course XI: BNG-A-CC-5-11-TH-TU

#### সাহিত্যের রূপ ও রীতি

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

Module	Topic	Faculty	Month
I	কবিতার বিভিন্ন রূপকল্প	AR	Aug-Dec
	নাটকের রূপকল্প	AC	Aug-Dec
II	উপন্যাস ও ছোটগল্প	AC	Aug-Dec
III	প্রবন্ধ, সমালোচনা ও অন্যান্য সংকলন	AR	Aug-Dec

### Bengali Core Course XII: BNG-A-CC-5-12-TH-TU

#### নাটক ও নাট্যমঞ্চ

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

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Module	Topic	Faculty	Month
I	বুড় সালিকের ঘাড়ে রোঁ – মধুসূদন দত্ত	PC	Aug-Dec
	মুক্তধারা - রবীন্দ্রনাথ ঠাকুর	AB	Aug-Dec
II	কারাগার – মন্মথ রায়	PC	Aug-Dec
	টিনের তলোয়ার – উৎপল দত্ত	SP	Aug-Dec
III	রঙ্গমঞ্চের ইতিহাস	PC	Aug-Dec
	ন্যাশানাল থিয়েটার থেকে নবনাট্য আন্দোলন	SP	Aug-Dec

### Discipline Specific Elective: BNG-A-DSE-A-5-2-TH-TU

#### বাংলাদেশের সাহিত্য

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

Module	Topic	Faculty	Month
Module I কথাসাহিত্য	সূর্য দীঘল বাড়ি – আবু ইসহাক	AC	Aug-Dec
	বাংলাদেশের গল্প	SP	Aug-Dec
Module II কবিতা ও নাটক	বাংলাদেশের শ্রেষ্ঠ কবিতা	AB	Aug-Dec
	কবর – মুনীর চৌধুরী	PC	Aug-Dec
Module III প্রবন্ধ	বাঙালি ও বাংলাদেশ গ্রন্থ থেকে নির্বাচিত প্রবন্ধ	AR	Aug-Dec

### Discipline Specific Elective: BNG-A-DSE-B-5-1-TH-TU

#### বাংলা শিশু-কিশোর সাহিত্য

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

Module	Topic	Faculty	Month
I	ক্ষীরের পুতুল – অবনীন্দ্রনাথ ঠাকুর	PC	Aug-Dec
	ঠাকুরমার ঝুলি – দক্ষিণারঞ্জন মিত্র মজুমদার	SP	Aug-Dec
II	আবোল তাবোল – সুকুমার রায়	AB	Aug-Dec
	ছড়াসমগ্র – অনন্যদাশঙ্কর রায়	AR	Aug-Dec
III	বাদশাহী আংটি – সত্যজিৎ রায়	AC	Aug-Dec
	সবুজ দ্বীপের রাজা – সুনীল গঙ্গোপাধ্যায়	AC	Aug-Dec

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# Semester- VI

## Bengali Core Course XIII: BNG-A-CC-6-13-TH-TU

### আধুনিক বাংলা কাব্য-কবিতা

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

Module	Topic	Faculty	Month
I	বীরাঙ্গনা কাব্য - মধুসূদন দত্ত	AR	Feb-June
II	সোনার তরী - রবীন্দ্রনাথ ঠাকুর	AB	Feb-June
	সঞ্চিতা - কাজী নজরুল ইসলাম	PC	Feb-June
III	একালের কবিতা সঞ্চয়ন (৫ টি নির্বাচিত কবিতা)	SP	Feb-June
	একালের কবিতা সঞ্চয়ন (৫ টি নির্বাচিত কবিতা)	AC	Feb-June

## Bengali Core Course XIV: BNG-A-CC-6-14-TH-TU

### সংস্কৃত, ইংরেজি ও প্রতিবেশী (হিন্দী) সাহিত্যের ইতিহাস

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

Module	Topic	Faculty	Month
I	সংস্কৃত সাহিত্যের সংক্ষিপ্ত ইতিহাস	AB	Feb-June
II	ইংরেজি সাহিত্যের সংক্ষিপ্ত ইতিহাস	AR	Feb-June
III	প্রতিবেশী (হিন্দী) সাহিত্যের ইতিহাস	PC	Feb-June

## Discipline Specific Elective: BNG-A-DSE-A-6-3-TH-TU

### বাংলা গোয়েন্দা সাহিত্য, কল্পবিজ্ঞান আশ্রয়ী রচনা এবং অলৌকিক কাহিনি

Faculty: Dr. Anjana Brahma (AB), Dr. Anunoy Chatterjee (AC) Dr. Putul Chakraborty (PC),  
Anamika Roy (AR)

Module	Topic	Faculty	Month
I	শজারুর কাঁটা - শরদিন্দু বন্দ্যোপাধ্যায়	AB	Feb-June
II	শঙ্কু সমগ্র - সত্যজিৎ রায়	AR	Feb-June
III	সব ভুতুড়ে - লীলা মজুমদার	PC	Feb-June
	সব ভুতুড়ে - লীলা মজুমদার	AC	Feb-June

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## Discipline Specific Elective: BNG-A-DSE-B-6-4-TH-TU

### লোকসংস্কৃতি ও লোকসাহিত্য

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

Module	Topic	Faculty	Month
I	লোকসংস্কৃতি ও লোকসাহিত্যের সাধারণ পরিচয়	AC	Feb-June
II	লোকছড়া, লোকনৃত্য, ধাঁধা	PC	Feb-June
III	বাংলা প্রবাদ, লোকগান, লোককথা	SP	Feb-June

## 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 Chatterjee (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	Sep-Jan
	প্যারীচাঁদ মিত্র, কালীপ্রসন্ন সিংহ, বঙ্কিমচন্দ্র চট্টোপাধ্যায়, রবীন্দ্রনাথ ঠাকুর, প্রমথ চৌধুরী, বুদ্ধদেব বসু	PC	Sep-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	Sep-Jan
	মধুসূদন দত্ত, দীনবন্ধু মিত্র, গিরিশচন্দ্র ঘোষ, রবীন্দ্রনাথ ঠাকুর, দ্বিজেন্দ্রলাল রায়, বিজয় ভট্টাচার্য	AC	Sep-Jan
Module III উপন্যাস ও ছোটগল্প	বাংলা উপন্যাসের উদ্ভব ও বিকাশ বঙ্কিমচন্দ্র চট্টোপাধ্যায়, রবীন্দ্রনাথ ঠাকুর, শরৎচন্দ্র চট্টোপাধ্যায়, বিভূতিভূষণ বন্দ্যোপাধ্যায়, মানিক বন্দ্যোপাধ্যায়, তারাশঙ্কর বন্দ্যোপাধ্যায়	AB	Sep-Jan

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## 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 Chatterjee (AC) , Anamika Roy (AR)

	Topic	Faculty	Month
<b>Module I</b> 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
<b>Module II</b> ছন্দ	অক্ষর, দল, কলা, মাত্রা, যতি, পর্ব, পদ, পঙ্তি/চরণ – সংজ্ঞা ও উদাহরণ বাংলা ছন্দের ত্রিধারা – সংজ্ঞা, বৈশিষ্ট্য ও উদাহরণ ছন্দোলিপি প্রণয়ন	AC	Feb-June
<b>Module III</b> অলঙ্কার	অলঙ্কার সম্পর্কে সাধারণ ধারণা অনুপ্রাস, যমক, শ্লেষ, বক্রোক্তি, উপমা, রূপক, উৎপ্রেক্ষা, সমাসোক্তি, ব্যাজস্ততি, ব্যতিরেক - সংজ্ঞা ও উদাহরণ অলঙ্কার নির্ণয়	AB	Feb-June

## 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
<b>Module I</b> প্রাগাধুনিক কবিতা	বৈষ্ণব পদাবলী	AR	Sep-Jan
<b>Module II</b> আধুনিক কবিতা	পুনশ্চ (নির্বাচিত কবিতা) – রবীন্দ্রনাথ ঠাকুর	PC	Sep-Jan
	একালের কবিতা সঞ্চয়ন (নির্বাচিত কবিতা)	SP	Sep-Jan
<b>Module III</b> বাংলা নাটক	রাজা ও রানী - রবীন্দ্রনাথ ঠাকুর	AB	Sep-Jan

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

### ব্যবহারিক বাংলা - ১

Faculty: Dr. Anunoy Chatterjee (AC) Dr. Anjana Brahma (AB)

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

## 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 Chatterjee (AC), Anamika Roy (AR)

	Topic	Faculty	Month
Module I	বাংলা ভাষা বিজ্ঞান	AC	Feb-June
Module II	সাহিত্যের রূপভেদ	AC & AR	Feb-June
Module III	মেঘনাদবধ কাব্য - মাইকেল মধুসূদন দত্ত	AR	Feb-June

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

### ব্যবহারিক বাংলা - ২

Faculty: Dr. Anunoy Chatterjee (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

## Semester- V

### Discipline Specific Elective: BNG-G-DSE-A-5-2-TH-TU

### বাংলা গোয়েন্দা সাহিত্য, কল্পবিজ্ঞান আশ্রয়ী রচনা এবং অলৌকিক কাহিনি

Faculty: Dr. Anjana Brahma (AB), Dr. Anunoy Chatterjee (AC) Dr. Putul Chakraborty (PC), Anamika Roy (AR)

Module	Topic	Faculty	Month
I	শজারুর কাঁটা – শরদিন্দু বন্দ্যোপাধ্যায়	AB	Aug-Dec
II	শঙ্কু সমগ্র – সত্যজিৎ রায়	AR	Aug-Dec
III	সব ভুতুড়ে – লীলা মজুমদার	PC, AC	Aug-Dec

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

### ব্যবহারিক বাংলা - ১

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

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

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# Semester- VI

## Discipline Specific Elective: BNG-G-DSE-B-6-2-TH-TU

### লোকসংস্কৃতি ও লোকসাহিত্য

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

Module	Topic	Faculty	Month
I	লোকসংস্কৃতি ও লোকসাহিত্যের সাধারণ পরিচয়	AC	Feb-June
II	লোকছড়া, লোকনৃত্য, ধাঁধা	PC	Feb-June
III	বাংলা প্রবাদ, লোকগান, লোককথা	SP	Feb-June

## BNG-G-LCC(2)-6-2-TH-TU

### সাময়িক পত্র ও কথাসাহিত্য

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

	Topic	Faculty	Month
Module I	সাময়িক পত্র	SP	Feb-June
Module II	উপন্যাসঃ রজনী – বঙ্কিমচন্দ্র চট্টোপাধ্যায়	AB	Feb-June
Module III	ছোটগল্পঃ একালের ছোটগল্প সংকলন	PC	Feb-June

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

### ব্যবহারিক বাংলা - ২

Faculty: Dr. Anunoy Chatterjee (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 ধনিমূলক 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 Chatterjee (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-Jan	BA/BSc (H) - PC BA/BSc (G) - SP BCom (H) - AC BCom (G) - AR
Module II ছোটগল্প	রবীন্দ্রনাথ ঠাকুর লিখিত ছুটি, জীবিত ও মৃত, পোস্টমাস্টার, বলাই	Sep-Jan	
Module III কবিতা	নৈবেদ্য - রবীন্দ্রনাথ ঠাকুর	Sep-Jan	
Module IV পরিভাষা	পরিভাষা	Sep-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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# **K.K.DAS COLLEGE**

GRH-17, BAISHNABGHATA-PATULI, KOLKATA-  
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**DEPARTMENT OF COMMERCE**  
**PROGRAMME BACHELOR OF COMMERCE (CBCS)**  
**ACADEMIC PLAN**  
**SESSION 2022-23**

*Sukumar Sedukhan*  
HOD  
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## SEMESTER-I (HONS)

SEM-I (H)-2022-2023					
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) 2022-2023	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) 2022-2023					
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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			<b>C U Examination</b>		<b>MAR</b>
	<b>Statistics</b>				
	<b>CC1.1Chg</b>	<b>1</b>	<b>Fundamental of Statistics</b>	<b>AA</b>	<b>Dec</b>
		<b>2</b>	<b>Measures of Central Tendency</b>	<b>AA</b>	<b>DEC-JAN</b>
		<b>3</b>	<b>Measures of Dispersion</b>	<b>AA</b>	<b>JAN</b>
		<b>4</b>	<b>Moments, Skewness and Kurtosis</b>	<b>AA</b>	<b>FEB</b>
		<b>5</b>	<b>Interpolation</b>	<b>AA</b>	<b>FEB</b>
		<b>Internal Assessment</b>		<b>MAR</b>	
	<b>C U Examination</b>		<b>MAR</b>		
	<b>Economics</b>				
<b>1ST</b>		<b>1</b>	<b>Demand &amp; Consumer Behaviour</b>	<b>SKG</b>	<b>Dec-Jan</b>
		<b>2</b>	<b>Production &amp; Cost</b>	<b>SG</b>	<b>Dec</b>
		<b>3</b>	<b>Perfect Competition</b>	<b>SKG</b>	<b>Jan-Feb</b>
			<b>Internal Assessment</b>		<b>MAR</b>
			<b>C U Examination</b>		<b>MAR</b>

### **SEMESTER-I (GEN)**

<b>SEM-I (G)-2022-2023</b>					
<b>YEAR</b>	<b>PAPER</b>	<b>UNIT</b>	<b>TOPIC</b>	<b>TEACHER</b>	<b>MONTH</b>
<b>1ST</b>	<b>FINANCIAL ACCOUNTING –I</b>	<b>1</b>	<b>Introduction</b>	<b>RP</b>	<b>DEC</b>
		<b>2</b>	<b>Concepts for determination of business income</b>	<b>RS</b>	<b>DEC</b>
		<b>3</b>	<b>Introduction to Accounting Standard</b>	<b>RP</b>	<b>DEC</b>
			<b>Introduction to Accounting Theory</b>	<b>RS</b>	<b>DEC</b>
		<b>4</b>	<b>Final accounts of Trading Concern</b>	<b>RP</b>	<b>JAN</b>
		<b>5</b>	<b>Financial statements from Incomplete records and of NPO</b>	<b>RP</b>	<b>FEB</b>
		<b>6</b>	<b>Accounting for special sales transaction</b>	<b>RS</b>	<b>JAN</b>
			<b>Sectional and Self balancing ledger</b>	<b>RS</b>	<b>FEB</b>
			<b>Insurance claim for loss of stock and for loss of profit</b>	<b>RS</b>	<b>FEB</b>
			<b>Internal Assessment</b>		<b>MAR</b>
	<b>C U Examination</b>		<b>MAR</b>		
<b>SEM-I (G) 2022-2023</b>	<b>Business Laws</b>	<b>1</b>	<b>The Indian Contract Act, 1872</b>	<b>BP</b>	<b>DEC-JAN</b>
<b>YEAR</b>	<b>CC 1.1 Chg</b>	<b>2</b>	<b>The Sale of Goods Act, 1930</b>	<b>SS</b>	<b>DEC</b>
<b>1ST</b>		<b>3</b>	<b>Partnership Laws</b>	<b>BP</b>	<b>JAN</b>

  
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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) 2022-2023					
	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

## 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

  
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		M-II	C U Examination		July
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		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
		2			
		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

### SEMESTER-III (HONS)

SEM-III (H)-2022-2023					
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)-2022-2023					
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

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

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	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 property	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 Product & by product
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
		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 property	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 Product & 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

		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

## SEMESTER-V(HONS)

SEM-V (H)- 2022-2023						
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 assessee)	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	

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		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
			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	

## SEMESTER-V(GEN)

SEMESTER-V(GEN)					
SEM-V (G) 2022-2023					
YEAR	PAPER				
3RD	TAXATION-II	UNIT	TOPIC	TEACHER	MONTH
		1	Computation of Total Income and Tax Payable		
		a	Rate of tax applicable to different assessee (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 assessee)	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
		YEAR	PAPER		

3RD	Auditing & Assurance	UNIT	TOPIC	TEACHER	MONTH
		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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## SEMESTER-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	SEC6.1Ch g				
		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 of materials 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	



		(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

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

  
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			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
		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 of materials 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		
		(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)**  
**2022-23**  
**ACADEMIC PLAN 2022-23**

Semester	Name Of the paper	Paper	No.of Module	Topic/Unit	Name of the teacher	Month
I	Computer Fundamentals and Digital Logic Design	CMS-G-CC-1-1-TH	1	General Concepts Introduction, computer hardware & software, evolution, Generations of programming languages, Virus, Multimedia, Object Oriented Paradigm.	MKB	Sept - Dec
			2	Digital logic Design Number System, Combinational Logic.	RP	Sept - Nov
			3	Sequential Logic.	RP	Nov- Jan
				<b>INTERNAL ASSESSMENT</b>		<b>Jan</b>
I	Word Processing, Spreadsheet, Presentation and Web design by HTML/ PHP	CMS-G-CC-1-1-P	1	Word processing, Document Preparation & Presentation and Spreadsheet.	MKB	Sept-Dec
			2	Web designing by HTML.	PP	Nov-Dec

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			3	Projects using HTML	PP	Dec-Jan
				<b>INTERNAL ASSESSMENT</b>		<b>Jan</b>
<b>II</b>	Algorithm and Data Structure	CMS-G-CC-2-2-TH	1	Introduction: Algorithms, ADT.	PP	April - May
			2	Arrays: One dimensional and Two Dimensional Arrays, Row Major and Column Major Forms.	PP	April - May
			3	Linked List: Singly and Doubly Linked List; Operations like Insertion, Deletion. Searching.	RP	May-June June
			4	Stacks and Queues: Concepts of Stack and Queue; Insertion and Deletion of Elements;	RP	April -Ma y
			5	Array and Linked Representation: Prefix, Infix and Postfix Notation; Postfix Expression Evaluation, Infix to Postfix.	RP PP	April - May
			6	Searching: Algorithms of Sequential, Binary Search Techniques.	PP	May-June
			7	Sorting: Bubble Sort, Selection Sort, Insertion Sort, Quick Sort, Merge Sort, Heap Sort.	PP	June-July
				<b>INTERNAL ASSESSMENT</b>		June

II	Programming with C	CMS-G-CC-2-2-P	1	<p>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.</p>	MKB	April - May
				<p>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 structure, size of structures, Dynamic Storage Allocation.</p>	MKB	May - June

				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	June - July
				<b>INTERNAL ASSESSMENT</b>		<b>June</b>
III	Computer Organization	CMS-G-CC-3-3-TH	1	Computer Architecture and Organization Central Processing Unit (CPU) ALU.	RP	August
			2	Control Unit ,I/O, Memory	RP	September
			3	Operating System Operating System, Process, Process Scheduling.	RP	November - December
			4	Memory Management.	PP	December
			5	Computer Peripherals	PP	November - December
				<b>INTERNAL ASSESSMENT</b>		<b>January</b>

III	Programming using PYTHON	CMS-G-CC-3-3-P	1	Concepts of python programming. Basics of oops, pop programming paradigm	MKB	August - September
			2	Making flowcharts and algorithms. Introduction to python. Writing simple python programs and executing them	MKB	October - November
			3	Looping, branching statements, library functions, user defined function, recursion, lists.	MKB	December
-				<b>INTERNAL ASSESSMENT</b>		<b>January</b>
IV	Operating System	CMS-G-CC-4-4-TH	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	RP & PP	April - May
			2	Types of operating systems: Operating systems for personal computers & workstations. Concepts of Synchronization: Critical Regions, Semaphores, Monitor Inter Process Communication Mechanism	RP & PP	April - May
			3	Processor Management: Scheduling and its types, Priority Queue;	RP	May - June
			4	Deadlock: Definition, Prevention, Avoidance,	RP	June - July

				Detection, Recovery.		
			5	I/O Management: Device and Device Controllers, Interrupt Handlers and Device drivers.	PP	June - July
			6	Memory Management: Logical & Physical memory, Contiguous allocation, Paging, Segmentation, Swapping, Real and Virtual memory, Page Replacement Techniques.	RP	May -June
			7	File Systems: Files and Directories, File Servers, Security and Protection.	PP	July
				<b>INTERNAL ASSESSMENT</b>		June
IV	Shell Programming (Unix/Linux)	CMS-G-CC-4-4-P	1	Shell Programming: Concept and simple programming problems.	PP	March - May
			2	Linux system calls, IPC problems, use of semaphore for synchronization problems.	PP	June-July
				<b>INTERNAL ASSESSMENT</b>		<b>June</b>
V	Database Management System (DBMS)	CMS-G-DSE-A-5-1-TH	1	Introduction: Drawbacks of Legacy System; Advantages of DBMS; Layered Architecture of Database, Data Independence; Data Models; Schemas And Instances;	PP RP	August
			2	Database Languages; Database ER Model:Entity, Attributes and Relationship; Structural Constraints; Keys; ER Diagram of Some Example Database; Weak Entity Set; Symbolic Conventions; Specialization and Generalization; Constraints of Specialization	PP & RP	September-October

  
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				and Generalization; Aggregation.		
			3	Relational Model: Basic Concepts of Relational Model; Relational Algebra; Tuple Relational Calculus; Domain Relational Calculus. Integrity Constraints: Domain Constraints, Referential Integrity, Assertions, Triggers	RP	November - December
			4	Relational Database Design: Problems of Un-Normalized Database; Functional Dependencies, Derivation Rules, Closure Of FD Set, Membership of A Dependency, Canonical Cover; Decomposition to 1NF, 2NF, 3NF or BCNF Using FD;.	RP	December- January
			5	Lossless Join Decomposition Algorithm; Dependency preservation	RP	January
	Database Design and Applications	CMS-G-DSE-A-5-1-P	1	Basic Structure, Data Definition, Constraints and Schema Changes; Basic SQL Queries (Selection, Insertion, Deletion, Update); Order by Clause; Complex Queries, Aggregate Function and Group by Clause; Nested Sub Queries; Correlated Subqueries; Views (Insert-Able and Updatable), Joined Relations; Set Comparisons (All, Some); Derived Relations Etc.; Grant and Revoke, Transaction in SQL	PP	August - October  Nov-Dec
			2	PHP Programming Lab	MKB	Nov -Jan
				<b>INTERNAL</b>		Jan

  
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				ASSESSMENT		
	Software Engineering	CMS-G-SEC--X-2-TH	1	Defining System, open and closed system, modeling of system, Communication system, Software life cycle, Different Models: Classical and Iterative Waterfall Model; Spiral Model and its importance towards application for different system representations, Comparative Studies	RP	August - September
			2	Requirements Principles and its analysis principles; Specification Principles and its representations	RP	Sept-Nov
			3	Different levels of DFD Design, Physical and Logical DFD, Use and Conversions between them, Process Representation – Pseudo English, Tight English, Decision Tables and Trees, Structured analysis – Structure Chart Conversion from DFD: Transform Centric and Transaction Centric conversions algorithms, Coupling and Cohesion of the different modules	RP	November - December
			4	Heuristic and Empirical Modeling; COCOMO. Software Verification and Validation; Testing objectives, Testing Principles, Testability; Error and Faults; Unit Testing, White Box and Blank Box Testing, Test Case Design: Test Vector, Test Stub	RP	December- January
			5	Concepts of Quality, Quality Control, Quality Assurance, SQA Activities, IEEE Standard for Statistical Software Quality Assurances (SSQA) criterions.	RP	January

				<b>INTERNAL ASSESSMENT</b>		<b>Jan</b>
VI	Multimedia and its Applications	CMS-G-SEC-B-X-1-TH	1	Multimedia System: An overview of multimedia system and media streams, Source representation and compression techniques text, speech and audio, still image and video. Multi-modal Communication: Video conferencing, networking support. Multimedia OS: Synchronization and QoS, Multimedia Servers.	MKB	April - June
				<b>INTERNAL ASSESSMENT</b>		June
VI	Computational Mathematics	CMS-G-DSE-A-6-3-TH	2	Introduction, Types of errors, Newton Forward and Backward Interpolation. , linear dependency, Rank, Singularity of coefficient matrix, Solution methods: Gaussian Elimination, Gauss-Jordan Elimination. Bisection algorithm, Newton-Raphson Method. Trapezoidal and Simpson's 1/3rd Rules and their composite forms Basic Terminology, Models and Types,	RP & MKB	April - June

				Multigraphs and Weighted graphs, Graph Representation, Graph Isomorphism, Connectivity, Euler and Hamiltonian Paths and Circuits, Planar Graphs, Graph Coloring, Trees, Basic Terminology and properties of Trees.	RP	May
				<b>INTERNAL ASSESSMENT</b>		<b>June</b>
VI	Computational Mathematics Lab.	CMS-G-DSE-A-6-3-P	1	Graph theory and Numerical Methods using C/ Python	MKB	April - June
				<b>INTERNAL ASSESSMENT</b>		<b>June</b>

  
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# ACADEMIC PLAN 2022-23

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# **B. Sc. Economics (Honours)**

## **Semester- I**

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

**Introductory Microeconomics**

**Faculty: Madhurima Koley (MK) & Deepto Majumder (DM)**

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

**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	Dec-Jan
2	Functions of one real variable	SG	10	Dec-Jan
3	Single variable optimization	SG	10	Feb
4	Integration of functions	SKG	10	Feb
5	Matrix Algebra	SKG	20	Dec-Jan
6	Game Theory	SKG	15	Feb



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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	Apr-May
2	Income Determination in the Short Run (Part-I): The Simple Keynesian Model in a Closed Economy	DM	18	Apr-June
3	The Classical system	DM	18	April
4	Macroeconomic Foundations – I	MK	19	May-June

### **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	Apr-May
2	Multi-variable optimization	SG	35	Apr-May
3	Difference Equations	SG	12	May-June
4	Differential Equations	SKG	14	May-June

## 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	Aug-Sept
2	Production and Costs	SG	20	July- Sept
3	The Firm and Perfect Market Structure	SG	20	Sept-Oct
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: Deepto Majumder (DM) & Madhurima Koley (MK)**

Sl. No.	Topic	Faculty	No. of lecture	Month
1	Income Determination in the Short-run (Part-II) : The IS-LM Model	DM	14	Aug-Sept
2	Aggregate Demand and Aggregate Supply- the Complete Keynesian Model	DM	14	Sept-Oct
3	Keynes vs. Classics	DM	10	Oct-Nov
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	Aug
2	Descriptive Statistics	MK	13	Sept-Oct
3	Elementary Probability Theory	MK	10	Oct-Nov
4	Probability Distributions	SKG	18	Nov-Dec
5	Sampling	SKG	14	Aug-Sept
6	Statistical inference	SKG	14	Oct-Nov

**Skill Enhancement Course I: ECO-A-SEC-3-A(1)-TH**

**Data Analysis [DA]**

**Faculty: Shumonika Gangoly (SG) & Madhurima Koley**

Sr. No.	Topic	Faculty	No. of lecture	Month
1	Collection and representation of data	SG	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)**

Sr. 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(SHG)	DM	11	Oct-Nov
4	Critical Evaluation of Selected Government Programmes and Rural Development	SKG	8	Nov

**Semester- IV**

**Economics Core Course VIII: ECO-A-CC-4-8-TH-TU**

**Intermediate Microeconomics II**

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

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

## Economics Core Course IX: ECO-A-CC-4-9-TH-TU

### Intermediate Macroeconomics II

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

Sr. No.	Topic	Faculty	No. of lecture	Month
1	Basic Tenets of New Classical and New Keynesian Theories	DM	20	Apr-May
2	Macroeconomic Foundations –II	MK	20	Apr-May
3	Economic Growth	DM	35	May-June

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

### Introductory Econometrics

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

Sr. No.	Topic	Faculty	No. of lecture	Month
1	Nature and Scope of Econometrics	SKG	4	April
2	Classical Linear Regression Model (Simple linear regression and multiple linear regression):Part 1	SKG	15	May
3	Classical Linear Regression Model (Simple linear regression and multiple linear regression):part 2	SKG	10	June
4	Statistical inference in linear regression model	MK	26	April
5	Violations of Classical Assumptions	MK	12	May
6	Specification Analysis	MK	8	June



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

**Research Methodology**

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

<b>Sr. No.</b>	<b>Topic</b>	<b>Faculty</b>	<b>No. of lecture</b>	<b>Month</b>
1	Methodological Issues 1	SKG	10	Apr-May
2	Methodological Issues 2	MK	20	May-June

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

**Managerial Economics**

**Faculty: Shumonika Gangoly (SG) & Deepto Majumder (DM)**

<b>Sr. No.</b>	<b>Topic</b>	<b>Faculty</b>	<b>No. of lecture</b>	<b>Month</b>
1	Demand, Cost and Profit Analysis	DM	6	April
2	Pricing Policies and practices	DM	3	April-May
3	Capital Budgeting	DM	8	May
4	Cost of capital	DM	5	May-June
5	Inventory Management	SG	8	June



## Semester- V

### Economics Core Course XI: ECO-A-CC-5-11-TH-TU

#### International Economics

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

Sr. No.	Topic	Faculty	No. of lecture	Month
1	Absolute and Comparative Advantages of Trade	DM	9	Aug-Sept
2	The Building Blocks of Trade Theory	DM	14	Sept
3	Factor Endowment and Trade (Heckscher-Ohlin-Samuelson Model)	DM	15	Oct
4	Applications of Neo-classical Trade Models for developing countries	DM	10	Nov
5	Trade Policy	DM	12	Nov-Dec
6	Open Economy Macroeconomics and Balance of Payments	MK	15	Dec-Jan

### Economics Core Course XII: ECO-A-CC-5-12-TH-TU

#### Indian Economy

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

Sr. No.	Topic	Faculty	No. of lecture	Month
1	Economic Development since Independence	SG	20	Aug-Sept
2	Population and Human Development	SKG	15	Sept-Oct
3	Growth and Distribution	SKG	20	Oct-Nov
4	Economic Reforms in India	SG	20	Sept- Oct

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**Discipline Specific Elective – A(1):**

**ECO-A-DSE-5-A(1)-TH-P Applied Econometrics [AE]**

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

Sr. No.	Topic	Faculty	No. of lecture	Month
1	Steps in empirical research	MK	10	Aug
2	Regression Diagnostics and Specification	SKG	20	Aug-Sept
3	Application of Regression Analysis	SKG	30	Oct-Dec

**Discipline Specific Elective – A(1):**

**ECO-A-DSE-5-A(1)-TH-TU**

**Economic History of India (1857-1947) [EHI]**

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

Sr. No.	Topic	Faculty	No. of lecture	Month
1	Impact of British rule on India	SKG	30	Aug-Sept
2	Aspects of Economic Policies in British India	SG	45	Oct-Nov

**Discipline Specific Elective-B(1):**

**ECO-A-DSE-5-B(1)-TH-TU**

**Comparative Economic Development (1850-1950) [CED]**

**Faculty: Deepto Majumder (DM)**

Srl No.	Topic	Faculty	No. of lecture	Month
1	Strategies and Policies for Economic Development	DM	30	Sept-Oct
2	Regions of contemporary development	DM	45	Nov-Dec



**Discipline Specific Elective-B(1):**

**ECO-A-DSE-5-B(1)-TH-TU**

**Financial Economics [FE]**

**Faculty: Shumonika Gangoly (S.G)**

<b>Sr. No.</b>	<b>Topic</b>	<b>Faculty</b>	<b>No. of lecture</b>	<b>Month</b>
1	Investment Theory and Portfolio Analysis	SG	35	Aug-Sept
2	Options and Derivatives	SG	20	Sept-Oct
3	Corporate Finance	SG	20	Nov-Dec

**Semester VI**

**Economics Core Course XIII: ECO-A-CC-6-13-TH-TU**

**Public Economics**

**Faculty: Madhurima Koley (MK)**

<b>Sr. No.</b>	<b>Topic</b>	<b>Faculty</b>	<b>No. of lecture</b>	<b>Month</b>
1	Government in a Market Economy	MK	15	April- May
2	Choice and Public Economics	MK	20	April- May
3	The Revenue and Expenditure of the Government	MK	20	May-June
4	Public Finance	MK	20	May-June



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## Economics Core Course XIV: ECO-A-CC-6-14-TH-TU

### Development Economics

Faculty: Deepto Majumder (DM) & Sayan Kumar Gupta (SKG)

Sr. No.	Topic	Faculty	No. of lecture	Month
1	Meaning of Economic Development	DM	10	Apr-May
2	Poverty and Inequality	SKG	15	Apr-May
3	Dual Economy Models	DM	20	May-June
4	Population Growth and Economic Development	SKG	10	May-June
5	Development Strategies	SKG	10	June
6	Political Institutions and the State	DM	10	June

### Discipline Specific Elective –A(2):

#### ECO-A-DSE-6-A(2)-TH-TU

#### Money and Financial Markets [MFM]

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

Sr. No.	Topic	Faculty	No. of lecture	Month
1	Introduction to money and Money and Banking	MK	5	Apr
2	Financial Institutions, Markets, Instruments and Financial Innovations	MK	17	Apr-May
3	Financial Markets and Interest Rates Behaviour	MK	18	May-June
4	Banking System	DM	20	Apr-May
5	Central Banking and Monetary Policy	DM	15	May-June





**Discipline Specific Elective-A(2):**

**ECO-A-DSE-6-A(2)-TH-P**

**Issues in Indian Economy [IIE]**

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

Sr. No.	Topic	Faculty	No. of lecture	Month
1	Growth and structural changes	SKG	4	Apr
2	Macroeconomic Policies and Their Impact	SG	15	Apr
3	Policies and Performance in Agriculture	SG	15	May
4	Policies and Performance in Industry	SKG	12	Apr-May
5	Trends and Performance in Services	SKG	14	June

**Discipline Specific Elective- B(2) :**

**ECO-A-DSE-6-B(2)-TH-TU**

**Environmental Economics [EE]**

**Faculty: Shumonika Gangoly (SG) & Deepr Majumder (DM)**

Sr. No.	Topic	Faculty	No. of lecture	Month
1	Introduction	SG	7	April
2	Efficiency and Market Failure	SG	18	April-May
3	The Design and Implementation of Environmental Policy	SG	20	Apr-May
4	International Environmental Problems	DM	13	May-June
5	Measuring the values of Environmental Costs and Benefits	SG	17	June

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**Discipline Specific Elective –B(2):**

**ECO-A-DSE-6-B(2)-TH-TU**

**Issues in Development Economics [IDE]**

**Faculty: Madhurima Koley (MK), Shumonika Gangoly (SG) & Sayan Kumar Gupta (SKG)**

<b>Sr. No.</b>	<b>Topic</b>	<b>Faculty</b>	<b>No. of lecture</b>	<b>Month</b>
1	Demography and Development	SKG	10	Apr-May
2	Land, Labor and Credit Markets	MK	20	Apr-May
3	Individuals, Communities and Collective Outcomes	MK	15	May-June
4	Environment and Sustainable Development	SG	15	Apr-May
5	Globalization	SG	15	May-June



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# BA / BSc (General)

## Semester I

**Core Course 1 (CC 1) / Generic Elective Course I (GE -1)**

**Name of the Course: Introductory Microeconomics**

Sr. No.	Topic	Faculty	No. of lecture	Month
1	Exploring the subject matter of Economics	SG	5	December
2	Supply and Demand: How Markets Work, Markets and Welfare	DM	16	Dec-Jan
3	The Households	SG	18	February
4	The Firm and Perfect Market Structure	MK	18	December
5	Imperfect Market Structure	DM	8	January
6	Input Markets	MK	10	Jan-Feb



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## Semester II

**Core Course 2 (CC 2) / Generic Elective Course 2 (GE -2)**

**Name of the Course: Introductory Macroeconomics**

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

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## Semester III

### Core Course 3 (CC 3) / Generic Elective Course III (GE-III)

Name of the Course: Issues in Economic Development and India

Srl. No.	Topic	Faculty	No. of lecture	Month
1	Meaning of Economic Development	MK	25	Aug-Sept
2	Poverty , Inequality and Development	DM	20	Sept-Oct
3	Development of the Dual Economy and Development Strategies	DM	15	Oct-Nov
4	International Organizations and Economic Development	MK	15	Nov-Dec

### Skill Enhancement Course [Economics] - A Group: Elementary Rural Development (ERD)

Sr. No.	Topic	Faculty	No. of lecture	Month
1	Basic Issues in Rural Development	SKG	12	Aug-Sept
2	Rural Credit and Self Help Groups (SHGs)	SKG	12	Oct-Nov
3	Selected Government Programmes and Rural Development	SKG	6	Dec

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## Semester IV

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

Sr. No.	Topic	Faculty	No. of lecture	Month
1	Macroeconomic Policies and their Impact	DM	15	Apr-May
2	Policies and Performance in Agriculture	DM	21	May-June
3	Policies and Performance in Industry	MK	21	Apr-May
4	Policies and Performance of Indian Foreign Trade	MK	18	May-June

### Skill Enhancement Course [Economics] -B -Group (SEC-B): Economic Data Analysis and Report Writing (EDARW)

Sr. No.	Topic	Faculty	No. of lecture	Month
1	Tabular and Graphical representation of Statistical Data	SG	6	Apr
2	Basic Descriptive Statistics and its role in Data Analysis	SG	16	Apr-May
3	Elements of Report writing	SG	8	June



## Semester V

### Discipline Specific Elective Course (DSE - A) - Name of the Course: Money and Banking (MB)

Sr. No.	Topic	Faculty	No. of lecture	Month
1	Money Supply and Banking System with reference to India	MK	12	Aug-Sept
2	Financial Institutions and Financial Markets	SG	22	Aug-Sept
3	Interest Rates	MK	12	Oct-Nov
4	Central Banking and Monetary Policy	SKG	16	Oct-Nov

## Semester VI

### Discipline Specific Elective Course (DSE-B) - Public Finance

Sr. No.	Topic	Faculty	No. of lecture	Month
1	Theory of Public Finance	SG, MK	40	Apr-June
2	Issues from Indian Public Finance	SKG, MK	35	Apr-June



**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/DM	15	Dec-Jan
2	Production & Cost	SG/MK	10	Dec
3	Perfect Competition	SKG/DM	15	Jan-Feb





# 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	DM, SG	10	Apr
2	Imperfect Competition	DM, SG	15	May
3	Factor Price Determination	DM, SG	15	June

### 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	SKG	10	Apr-May
3	Sectoral Trends and Issues	SKG, MK	15	May-June
4	Social Issues in Indian Economy	MK	10	May-June



## 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	DM	10	Sept-Oct
4	Commodity market and Money market equilibrium – IS-LM	DM	10	Oct-Nov
5	Money, Inflation and Unemployment	MK	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 2022-23

Name of the paper	Paper/Co urse	No of Topic/ Unit	Semester	Topic/Unit	Name of the Teache r	Month
Introduction To Education	CC-1/GE-1	Unit-1 (Concept of Education)	Semester-1	Narrow and broader concept of education.	MD	July
				Meaning, nature and scope of education.	MD	August
				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	Septembe r
				Teacher: qualities and duties of a good teacher.	MD	Septembe r
				Curriculum- concept and types	MD	November
				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	August
				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
				Internal & Uni. Exam		December
Psychological Foundation of Education	CC-2/GE-2	Unit-1 (Relation between Psychology and Education)	Semester-2	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	MD	March

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				of educational psychology.		
		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
				Internal & Uni. Exam		June
Sociological Foundation of Education	CC-3/GE-3	Unit-1 (Introductory Concept of Sociology of Education)	Semester-3	Meaning and definition of sociology of education.	MD	July
				Relation between sociology and education.	MD	August
				Nature of sociology of education.	MD	August
				Scope of sociology of education.	MD	September
		Unit-2 (Social Groups)		Social groups: meaning and definition.	MD	September
				Types of social groups- primary, secondary and Tertiary.	MD	November
				Socialization process: concept.	MD	November
				Role of the family and school in socialization process.	MD	November
		Unit-3 (Social Change and Education)		Concept of social change.	BKS	July
				Interrelation between social	BKS	August

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				change and education.		
				Social stratification and social mobility.	BKS	August
				Social interaction process.	BKS	September
		Unit-4 (Social Communication in Education)		Social communication: concept.	BKS	September
				Informal agencies of social communication.	BKS	September
				Interrelation between culture, religion and education.	BKS	November
				Interrelation between technology, economy and education.	BKS	November
				Internal & Uni. Exam		December
Skill for Democratic Citizenship	SEC-A2	Unit- 1 ( Rights and duties in Indian Constitution)		Democratic rights.	MD	July
				Fundamental Rights.	MD	August
				Duties of citizenship.	MD	August
		Unit - 2 (Protection of Children)		Child protection - concept and need.	MD	September
				Child Rights – concept, classification and need.	MD	November
				Legal actions – POCSO.	MD	November

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		Unit - 3 (Domestic Harmony)		Domestic violence – definition and types.	BKS	July
				Protection of Women from Domestic Violence Act, 2005 – basic features.	BKS	August
				Protection of males in DVA 2005.	BKS	August
		Unit – 4 ( Role of Education to Ensure)		Rights and duties in Indian constitutions.	BKS	Septembe r
				Protection of children.	BKS	Septembe r
				Democratic harmony.	BKS	November
				Internal & Uni. Exam		December
Inclusive Education	CC-4/GE-4	Unit-1 (Inclusion Overview)	Semester-4	Meaning of inclusion and inclusive society.	MD	January
				Exclusion and inclusion : conceptual overview	MD	February
				Obstacles/barrie r in inclusion.	MD	February
				Elements necessary for creating an inclusive society.	MD	March
		Unit-2 (Differently abled)		Concept of impairment, disability and handicap	MD	March
				Types of disabilities- orthopaedic, visual, auditory, cerebral palsy, intellectual autism, learning	MD	April

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				disabilities( only definition and their specific problems).		
				General causes of disabilities	MD	April
				Role of school and society in creating a barrier free environment.	MD	May
		Unit-3 (Socially disabled)		Concept of SC,ST and OBC groups.	BKS	January
				Concept of gender and sexuality		February
				Causes of social exclusion	BKS	February
				Understanding social inclusion: role of education.	BKS	March
		Unit-4 (Educational reforms for inclusive society)		Building an inclusive school: desired changes in system, structure, practice and culture.	BKS	March
				Education for a multicultural society.	BKS	April
				Education for peaceful co-existence.	BKS	April
				Role of informal agencies (like mass media etc) in building an inclusive society.	BKS	May
				Internal & Uni. Exam		June
Teaching Skill	SEC-B1	Unit - 1 (Understanding Teaching)		Concept and definition of Teaching.	MD	January

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				Nature of teaching and characteristic factors affecting teaching.	MD	February
				Relation between teaching and training.	MD	February
		Unit - 2 (Types of Teaching: Concept and Characteristics )		Micro-teaching and Micro lesson.	MD	March
				Simulated teaching.	MD	April
				Integrated teaching.	MD	May
		Unit: 3 – (Skills of Teaching : Basic Concept)		Nature and definition of skills of teaching.	BKS	January
				Developing teaching skills: Introducing a lesson, Questioning, Use of teaching aids, Illustration and Reinforcement.	BKS	February
				Phases of teaching: Pre-active, Inter-active, Post-active.	BKS	February
		Unit: 4 (Learning Design)		Concept and importance of learning design in teaching.	BKS	March
				Steps of learning design.	BKS	April

				Qualities of good learning design.	BKS	May
				Internal & Uni. Exam		June
Educational Thought of Great Educators.	DSE-A2	Unit: 1 (Western Educators : Part 1)	Semester-5	Plato	MD	July
				Rousseau	MD	August
				Montessori	MD	August
		Unit - 2 (Western Educators : Part 2)		Pestalozzi	BKS	July
				Dewey	BKS	August
				Ivan Illich	BKS	September
		Unit - 3 (Indian Educators : Part 1)		Vivekananda	BKS	September
				Rabindranath	BKS	November
				Gandhiji	BKS	November
		Unit - 4 (Indian Educators : Part 2)		Radhakrisnan	MD	September
				Begum Rokeya	MD	September
				Sister Nivedita	MD	November
				Internal & Uni. Exam		December
Women Education	DSE-B2	Unit - 1 (Historical Perspectives of Women Education)	Semester-6	Synoptic view of women education through the ages: Vedic, Brahmanic, Medieval Period.	MD	January
				Contribution of Missionaries.	MD	February
				Role of British Govt.	MD	February

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		Unit - 2 (Policy Perspective, Committee and Commission on Women Education)		Constitutional provision, NPE -1968, 1986, 1992, POA-1992.	MD	March
				Radhakrisnan, Mudaliar and Kothari Commission.	MD	April
				Durgabai Deshmukh Committee, Hansraj Mehta Committee and Bhaktabatsalam Committee.	MD	May
		Unit - 3 (Role of Indian Thinkers in promoting Women Education)		Rammohan Roy	BKS	January
				Vidyasagar	BKS	February
		Unit – 4 (Major Constraints of Women Education and Women Empowerment )		Social – Psychological	BKS	March
				Political – Economical	BKS	April
				Role of women empowerment in modern society in brief.	BKS	May
				Internal & Uni. Exam		June

Teaching Skill	SEC-B1	Unit - 1 (Understanding Teaching)		Concept and definition of Teaching.	MD	January
				Nature of teaching and characteristic factors affecting teaching.	MD	February
				Relation between teaching and training.	MD	March
		Unit - 2 (Types of Teaching: Concept and Characteristics)		Micro-teaching and Micro lesson.	MD	March
				Simulated teaching.	MD	April
				Integrated teaching.	MD	May
		Unit: 3 – (Skills of Teaching : Basic Concept)		Nature and definition of skills of teaching.	BKS	January
				Developing teaching skills: Introducing a lesson, Questioning, Use of teaching aids, Illustration and Reinforcement.	BKS	February
				Phases of teaching: Pre-active, Inter-active, Post-active.	BKS	March
		Unit: 4 (Learning Design)		Concept and importance of	BKS	March

				learning design in teaching.		
				Steps of learning design.	BKS	April
				Qualities of good learning design.	BKS	May
				Internal & Uni. Exam		June

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**K. K. Das College**  
**Department of English**  
**Academic Plan**  
**2022-2023**

<b>BA (H) English</b>						
Part/Sem	Name of the paper	Section	No. of Units	Topic/Unit	Name of the teacher	Month
<b>Semester 1</b>	<b>CC1</b> History of English Literature (Group A)	1	A	Old English Heroic Poetry, Old English Prose and Chaucer	BB	September
1		1	B	Elizabethan Sonnets, University Wits and Ben Jonson	BB	September & October
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	September
1		2	E	Victorian Novel and the Pre-Raphaelites	AB	September
1		2	F	Modern Novel, Poetry and Drama	AB	September & November
1	Philology (Group B)	1	A	Latin, Scandinavian & French Influence, Americanism	GD	September

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1		2	B	Short Notes	GD	September
1		2	C	Word-formation Processes and Consonant Shift	GD	September
				<b>Term Paper Submission</b>		November
				<b>CLASS TEST</b>		November
1	<b>CC2</b> European Classical Literature (Group B)	1	A	Homer <i>The Iliad (Books I and II)</i>	GD	November
1		2	B	Sophocles <i>Oedipus the King</i>	AB	September
1	Group C	1	A	Ovid, Selections from <i>Metamorphoses, Bacchus (Book III)</i>	SB	November
1		2	B	Plautus <i>Pot of Gold</i>	SB	September & October
				<b>Term Paper Submission</b>		November
				<b>CLASS TEST</b>		November
	<b>AECC1</b> (Communicative English)	1	1	Correction of Sentences	AB	September
		2	2	Transformation	AB	October, November
		3	3	Identifying True /False Statements from given passages	AB	November
				<b>CLASS TEST</b>		November
<b>Semester 2</b>	<b>CC3</b> 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
						March

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2		2 (Novel)	A	Bankim Chattopadhyay <i>Rajmohan's Wife</i>	AB	January- March
2		3 (Drama)	A	Mahesh Dattani 'Bravely Fought the Queen'	GD	February- March
				<b>Term Paper Submission</b>		April
				<b>CLASS TEST</b>		May
2	<b>CC4</b> British Poetry & Drama (14 <sup>th</sup> -17 <sup>th</sup> 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
2		2 (Drama)	A	Shakespeare <i>Macbeth</i>	AB	March-April
2			B	Shakespeare <i>As You Like It</i>	SB	February- April
				<b>Term Paper Submission</b>		April
				<b>CLASS TEST</b>		May
<b>Semester 3</b>	<b>CC5</b> American Literature	1 (Poetry)	A	Robert Frost 'After Apple Picking'	GD	August
			B	Walt Whitman 'O Captain, My Captain'	GD	August
			C	Sylvia Plath 'Daddy'	GD	September
			D	Langston Hughes 'Harlem'	GD	September
			E	Edgar Allan Poe 'To Helen'	GD	November
		2 (Novel)	A	Ernest Hemmingway <i>The Old Man and the Sea</i>	AB	July- September
		3 (Stories)	A	Edgar Allan Poe 'The Purloined Letter'	GD	September, October
			B	F Scott Fitzgerald 'The Crack-Up'	GD	November
			C	William Faulkner 'Dry September'	GD	September
		4 (Drama)	A	Arthur Miller <i>Death of a Salesman</i>	SB	September, November
				<b>CLASS TEST</b>		November
				<b>Term Paper Submission</b>		November
3	<b>CC6</b> (Popular	1	A	Lewis Carroll <i>Through the</i>	SB	October,

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	Literature)			<i>Looking Glass</i>		November
3			B	Agatha Christie <i>The Murder of Roger Ackroyd</i>	GD	November
3		2	A	Sukumar Roy <i>AbolTabol</i>	AB	August-September
		3	A	Herge <i>Tintin in Tibet</i>	GD	September
				<b>CLASS TEST</b>		November
				<b>Term Paper Submission</b>		November
3	<b>CC7</b> (British Poetry and Drama 17 <sup>th</sup> -18 <sup>th</sup> century)	1 (Poetry)	A	John Milton <i>Paradise Lost</i>	GD	July-September
3			B	Alexander Pope <i>The Rape of the Lock Cantos I-III</i>	BB	July-September
3		2 (Drama)	A	John Webster <i>The Duchess of Malfi</i>	AB	November
3			B	Aphra Behn <i>The Rover</i>	SB	July-September
				<b>Class Test</b>		November
				<b>Term Paper Submission</b>		November
	<b>SEC A2</b> (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
				<b>CLASS TEST</b>		November
<b>Sem 4</b>	<b>CC8</b> (18 <sup>th</sup> Century British Literature)	1 (Poetry)	A	Samuel Johnson 'London'	SB	January
			B	Thomas Gray 'Elegy Written in a Country Churchyard'	SB	January
		2 (Drama)	A	William Congreve <i>The Way of the World</i>	GD	February-March
		3 (Fiction and Non-Fiction)	A	Daniel Defoe <i>Robinson Crusoe</i>	AB	February-March
			A	Joseph Addison 'Sir Roger at Home' and 'Sir Roger at Church'	BB	April
				<b>Term Paper Submission</b>		April
				<b>Class Test</b>		May

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	<b>CC9 (British Romantic Literature)</b>	1 (Poetry)	A	William Blake 'The Lamb and The Tyger'	GD	April
			B	William 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 Autumn'	GD	March
		2 (Prose)	A	Mary Shelley <i>Frankenstein</i>	SB	January-February
			B	Charles Lamb 'Dream Children' & 'The Superannuated Man'	BB	March-April
				<b>Term Paper Submission</b>		April
				<b>Class Test</b>		May
	<b>CC10 (19<sup>th</sup> Century British Literature)</b>	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
		2 (Novel)	A	Jane Austen <i>Pride and Prejudice</i>	BB	January-March
			B	Thomas Hardy <i>The Mayor of Casterbridge</i>	PD	March-April
				<b>Term Paper Submission</b>		April
				<b>Class Test</b>		May
	<b>SEC B2 (Academic Writing and Composition)</b>	1	A	Citing Sources	PD	March
		2	A	Writing Critical Appreciation	PD	March
		3	A	Substance Writing with critical note	PD	April
		4	A	Essay Writing	PD	April

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				<b>CLASS TEST</b>		May
<b>Sem 5</b>	<b>CC11</b> (Women's Writing)	1(Poetry)	A	Emily Dickinson "I cannot live with you"	BB	August
			B	Elizabeth Barrett Browning "How do I love thee"	BB	August
			C	Eunice De Souza "Advice to Women"	BB	September
		2(Fiction)	A	Emily Bronte "Wuthering Heights"	GD	September
			B	Mahasweta Devi "Draupadi"	AB	August
		3(Non-Fiction)	A	Mary Wollstonecraft "A Vindication of the Rights of Woman"	SB	August
				<b>Term Paper Submission</b>		November
				<b>Class Test</b>		November
	<b>CC12</b> (Early 20 <sup>th</sup> Century British Literature)	1(Poetry)	A	T.S. Eliot "The Love Song of J. Alfred Prufrock" and "Preludes"	GD	September
			B	W.B. Yeats "The Second Coming" and "No Second Troy"	GD	September
			C	Wifred Owen "Spring Offensive"	GD	August
		2(Fiction)	A	Joseph Conrad "Heart of Darkness"	AB	August
			B	D.H. Lawrence "Sons and Lovers"	AB	September
		3(Drama)	A	G.B. Shaw "Pygmalion"	GD	November
				<b>Term Paper Submission</b>		November
				<b>Class Test</b>		November
	<b>DSE-A1</b> (Modern Indian Writing in English Translation)	1 (Stories)	A	Munshi Premchand "The Shroud"	SB	September
			B	Ismat Chughtai "The Quilt"	SB	September
			C	Fakir Mohan Senapati "Rebati"	SB	September
		2 (Poetry)	A	Rabindranath Tagore "Gitanjali XXVII" and "Gitanjali XCVII"	BB	August
			B	G.M. Muktibodh "The	BB	August

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				Void”		
			C	Amrita Pritam “I say unto Waris Shah”	BB	August
		3 (Novel)	A	Rabindranath Tagore “The Home and the World”	BB	November
		4 (Drama)	A	Vijay Tendulkar “Silence! The Court is in Session”	GD	September
				<b>Term Paper Submission</b>		November
				<b>Class Test</b>		November
	<b>DSE-B1</b> (Literary types, Rhetoric and Prosody)	1	A	Tragedy, Comedy, Short Story	SB	August, October, November
			B	Rhetoric	GD	November
			C	Prosody	GD	November
				<b>Term Paper Submission</b>		November
				<b>Class Test</b>		November
<b>Sem 6</b>	<b>CC13</b> (Modern European Drama)	1	A	Henrik Ibsen “A Doll’s House”	AB	January
			B	Bertolt Brecht “The Good Woman of Szechuan”	GD	February
			C	Samuel Beckett “Waiting for Godot”	SB	March
				<b>Term Paper Submission</b>		April
				<b>Class Test</b>		May
	<b>CC14</b> (Postcolonial Literatures)	1 (Poetry)	A	Pablo Neruda “Tonight I can Write”	SB	February
			B	Derek Walcott “A Far Cry from Africa”	SB	February
			C	David Malouf “Revolving Days”	SB	February
			D	Mamang Dai “The Voice of the Mountain”	SB	February
		2 (Novel)	A	Chinua Achebe “Things Fall Apart”	AB	April
			B	Gabriel Garcia Marquez “Chronicle of a Death Foretold”	GD	March
				<b>Term Paper Submission</b>		April
				<b>Class Test</b>		May
	<b>DSE-A3</b> (Partition Literature)	1 (Novel)	A	Amitav Ghosh “The Shadow Lines”	AB	February

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		2 (Short Stories)	A	Protiva Basu "The Marooned"	BB	February
			B	Manik Bandyopadhyay "The Final solution"	BB	February
			C	Sadat Hasan Manto "Toba Tek Singh"	BB	March
		3 (Poetry)	A	Sahir Ludhianvi "Twenty sixth January"	SB	March
			B	Birendra Chattopadhyay "After Death: Twenty Years"	PD	March
			C	Sankha Ghosh "Rehabilitation"	PD	March
				<b>Term Paper Submission</b>		April
				<b>Class Test</b>		May
	<b>DSE-B3 (Autobiography)</b>	1	A	Rabindranath Tagore "My Reminiscences"	GD	March
			B	Mahatma Gandhi "Autobiography or the story of my Experiments with Truth"	BB	April
			C	Binodini Dasi "My Story and Life as an Actress"	SB	March
			D	Nirad C. Chaudhuri "Autobiography of an Unknown Indian"	AB	April
				<b>Term Paper Submission</b>		April
				<b>Class Test</b>		May

<b>BA (G) English</b>						
Year/Sem	Topics	Paper/Course	No. of Module	Topic/Unit	Name of the teacher	Month
<b>Sem1</b>	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-

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						September
1			6	The Fly by Katherine Mansfield	BB	August- November
1			7	Lagoon by Joseph Conrad	AB	November
				<b>Class Test</b>		November
				<b>Project Submission</b>		November
	Communicative English	AECC1	1	Correction of Sentences	GD	September
			2	Transformation	GD	October, November
			3	Identifying True /False Statements from given passages	GD	November
				<b>CLASS TEST</b>		November
<b>Sem 2</b>	Novel	CC2/GE2	1	The Mayor Of Casterbridge by Thomas Hardy	BB	September -November
	Drama		1	Arms and the Man by G. B. Shaw	SB	August- November
			2	As You Like It by William Shakespeare	SB	August- September
	Essays		1	Shooting an Elephant by George Orwell	BB	August
			2	Dream Children: A Reverie by Charles Lamb	BB	September
				<b>Class Test</b>		November
				<b>Project Submission</b>		November
<b>Sem 3</b>	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 <i>Jiban</i>	SB	November
			2	Rokeya Sakhawat Hussain <i>Sultana's Dream</i>	SB	August- September
				<b>Class Test</b>		November
				<b>Project Submission</b>		November
	Language, Variety and	LCC (L1)-1	A	Personal Letters	SB	August

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	Stylistics					
			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
				<b>Class Test</b>		November
				<b>Project Submission</b>		November
<b>Sem 3/5</b>	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
				<b>Class Test</b>		November
<b>Sem 4</b>	Academic Writing	CC4/GE4	A	Citing Sources	AB	January
			B	Writing critical appreciation	BB	January-February
			C	Writing Summary/Substance with Critical Note	SB	February-April
			D	Writing Essay	BB	March-April
				<b>Class Test</b>		November
				<b>Project Submission</b>		November
	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 Chughtai 'Roots'	AB	March
			A3	Ramachandra Guha: 'A Gandhian in Garhwal'	AB	April
			B1	Louis Fischer: 'Gandhi and the Western World'	GD	February
			B2	Sisir Kumar Ghosh: 'Makers of Indian Literature: Rabindranath Tagore'	GD	March
			B3	Subal Chandra Mitra 'Isva Chandra Vidyasagar: A Story of his Life and Work'	GD	April

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				<b>Class Test</b>		May
				<b>Project Submission</b>		May
<b>Sem 4/6</b>	Spoken English	SEC B1	A	Features of Oral Communication	SB	February
			B	Essentials of Good Communication	SB	February
			C	Greeting, Leave Taking, Making Requests, Queries	SB	February
			D	Narrating Events	SB	March
			E	Complaints and Apologies, Alerting, Warning	SB	March
			F	Interview	SB	April
			G	Debate	SB	April
			H	Anchoring	SB	April
			I	Public Address	SB	May
				<b>CLASS TEST</b>		May
<b>Sem 5</b>	Modern Indian Writing in English Translation	DSE A2	A	Rabindranath Tagore The Home and the World	BB	September, October
	Poetry		B1	Tagore 'Light, O where is the light?'	BB	October
			B2	Tagore 'When my play was with thee'	BB	October
			B3	Muktibodh 'The Void'	BB	November
			B4	Amrita Pritam 'I say unto Waris Shah'	BB	November
	Drama		C1	Vijay Tendulkar 'The Court is in Session'	GD	September
			C2	Habib Tanveer 'Charandas Chor'	GD	October, November
				<b>Class Test</b>		November
				<b>Project Submission</b>		November
	Language, Imagination and Creativity	LCC (L1)-2	A	Figures of Speech	GD	September
			B1	Wordsworth 'Three Years She Grew'	BB	September
			B2	Tennyson 'Break Break Break'	BB	September
			B3	Derozio 'To India My Native Land'	BB	October

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			B4	Tagore 'Gitanjali 50'	BB	November
			C	Story writing	GD	September
			D	Travelogue Writing	GD	October
			E	Writing Advertisement Matter	GD	November
				<b>CLASS TEST</b>		November
				<b>Project Submission</b>		November
<b>Sem 6</b>	Partition Literature	DSE B1	A	Amitav Ghosh The Shadow Lines	AB	February, March
			B1	Protiva Basu 'The Marooned'	BB	February
			B2	Manik Bandyopadhyay 'The Final Solution'	BB	March
			B3	Manto 'Toba Tek Singh'	BB	April
			C1	Sudhir Ludhianvi 'Twentysixth January'	SB	February
			C2	Birendra Chattopadhyay 'After Death: Twenty Years'	SB	March
			C3	Sankha Ghosh 'Rehabilitaion'	SB	April
				<b>CLASS TEST</b>		May
				<b>Project Submission</b>		May
	Language, Creativity and Analysis	LCC (L2)-2 Alternative English	A1	R. K. Narayan 'Out of Business'	GD	February
			A2	Bhisham Sahni 'The Boss Came to Dinner'	GD	March
			A3	Ruskin Bond 'The Thief's Story'	GD	March
			A4	Prem Chand 'The Child'	GD	April
			B1	Tagore 'Gitanjali XVIII'	GD	March
			B2	Purushottam Lal 'Life'	GD	March
			B3	Nissim Ezekiel 'In a Country Cottage'	GD	April
			B4	<b>Gauri Deshpande</b> 'The Female of the Species'	GD	April
				<b>CLASS TEST</b>		May
				<b>Project Submission</b>		May

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## K.K.DAS COLLEGE

### Academic plan

### Academic year 2022-23

### HISTORY HONS

TIME	SEMESTER	PAPER	UNIT	TEACHER
2022 August	1 <sup>st</sup> SEM	CC1 (HISTORY OF INDIA, FROM THE EARLIEST TIMES TO C 300 BCE)	Reconstructing Ancient Indian History : a) Early Indian notions of History b) Sources and tools of historical reconstruction. c) Historical interpretations (with special reference to gender, environment, technology and regions	SS,SSG
August	1 <sup>st</sup> sem	CC2 (SOCIAL FORMATION AND CULTURAL PATTERNS OF THE ANCIENT WORLD OTHER THAN India)	Evolution of human kind: Paleolithic and Mesolithic cultures – Role of kinship social institutions in the development of early societies.	AM,DB
August	3 <sup>rd</sup> sem	CC5(HISTORY OF INDIA C750-1206)	I.Studying Early medieval India	SSG,DB
August	3 <sup>rd</sup> 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	3ed sem	SEC A1: (Archives and museums )	I. Definition and history of development (with special reference to India)	SSG
August	3 <sup>RD</sup> Sem	CC7 HISTORY OF INDIA(C1206-1526)	I.Interpreting the Delhi Sultanate. II. Sultanate Political Structures: a. Foundation, expansion and consolidation of the Sultanate of Delhi; the Khaljis and the Tughluqs; Mongol threat and Timur's invasion; Rise and fall of Syed dynasty; The Lodis; Conquest of Bahlul and Sikandar; Ibrahim Lodi and the battle of Panipat;	AM,DB

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			<p>b. Theories of Kingship; Ruling elites; Sufis, Ulama and the political authority; imperial monuments and coinage</p> <p>c. Emergence of provincial dynasties: Bahamanis, Vijayanagar, Gujarat, Malwa, Jaunpur and Bengal</p> <p>d. Consolidation of regional identities: regional art, architecture and literature</p>	
August	5 <sup>th</sup> sem	CC11 History of Modern Europe (c.1780 – 1939) I	<p>I. The French Revolution and its European repercussions:</p> <p>a) Crisis of <i>ancien regime</i></p> <p>b) Intellectual currents</p> <p>c) Social classes and emerging gender relations.</p> <p>d) Phases of the French Revolution</p> <p>e) Art and Culture of French Revolution</p> <p>f) Napoleonic consolidation – reform and empire.</p>	SSG
August	5 <sup>th</sup> sem	CC-12: History of India (c 1750s – 1857) I.	<p>I. India in the mid 18<sup>th</sup> Century; Society, Economy, Polity</p> <p>II. Expansion and Consolidation of Colonial Power :</p> <p>a) Mercantilism, foreign trade and early forms of exactions from Bengal</p> <p>b) Dynamics of expansion, with special reference to Bengal, Mysore, Western India, Awadh, Punjab and Sindh.</p> <p>III. Colonial State and Ideology:</p> <p>a) Arms of the colonial state : army, police, law</p> <p>b) Ideologies of the Raj and racial attitudes.</p> <p>c) Education : indigenous and modern.</p>	DB
August	5 <sup>th</sup> sem	DSE-A-1 SEM - 5: I. History of Bengal (c.1757-1905)	<p>I. Political history of Bengal under the Nawabs: Rise of British power in Bengal from the battle of Plassey to Buxar.</p> <p>II. Administrative history: 1765--1833</p>	SSG
August	5 <sup>th</sup> sem	DSE-B-1 SEM - 5: History of Modern East Asia – I China (c.1840 – 1949)	<p>a) Chinese feudalism : Gentry, Bureaucracy and peasantry; the Confucian value system; Sinocentrism; the canton commercial system</p> <p>b) The transformation of China into an informal colony; the Opium Wars; the</p>	AM

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			Unequal Treaties; the scramble for concessions; Finance Imperialism; the Open Door policy.	
September	1 <sup>st</sup> sem	CC1 (HISTORY OF INDIA, FROM THE EARLIEST TIMES TO C 300 BCE)	II. Hunter-gatherers and the advent of food products a) Paleolithic cultures- sequence and distribution; stone industries and other technological developments. b) Mesolithic cultures – regional and chronological distribution; new developments in technology and economy; rock art. c) Neolithic and Chalcolithic cultures: distribution and subsistence pattern.	SS,SSG
September	1 <sup>st</sup> sem	CC2 (SOCIAL FORMATION AND CULTURAL PATTERNS OF THE ANCIENT WORLD OTHER THAN India)	Food production : beginnings of agriculture and animal husbandry.	AM,DB
September	3 <sup>rd</sup> sem	CC5(HISTORY OF INDIA C750-1206)	II. Political Structures: a) Evolution of political structures: Rashtrakutas, Palas, Pratiharas, Rajputs and Cholas. b) Legitimization of kingship; Brahmanas and temples; royal genealogies and rituals c) Arab conquest of Sindh : nature and impact of the new set-up; Ismaili Dawah d) Cause and consequences of early Turkish invasions : Mamud of Ghazna; Shahab-ud- Din of Ghur	SSG,DB
September	3 <sup>rd</sup> Sem	CC6(RISE OF THE MODERN WEST)	III. a) Renaissance : its social roots b.) Renaissance humanism c.) Rediscovery of classics d.) Italian renaissance and its impact on art, culture, education and political thought. e.) Its spread in Europe IV. a) Reformation movements: Origins & courses b.) Martin Luther & Lutheranism c.) John Calvin & Calvinism d.) Radical reformation: Anabapists and Huguenots e.) English reformation and the role of the state f.) Counter Refor	SS
September	3 <sup>RD</sup> Sem	CC7 HISTORY OF INDIA(C1206-	II. Society and Economy: a. Iqta and the revenue-free grants	AM,DB

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		1526)	b. Agriculture production; technology c. Changes in rural society; revenue systems d. Monetization; market regulations; growth of urban centres; trade and commerce; Indian Ocean trade	
September	3 <sup>rd</sup> Sem	SEC A1: (Archives and museums )	II. Types of archives and museums: Understanding the traditions of preservation in India Collection policies, ethics and procedures Collection: field exploration, excavation, purchase, gift and bequests, loans and deposits, exchanges, treasure trove confiscation and others. Documentation: accessioning, indexing, cataloguing, digital documentation and deaccessioning Preservation: curatorial care, preventive conservation, chemical preservation and restoration	SSG
September	5 <sup>TH</sup> SEM	CC 11 History of Modern Europe (c.1780 – 1939)	II. Restoration and Revolution: c.1815 - 1848 a) Forces of conservatism and restoration of old hierarchies. b) Social, Political and intellectual currents. c) Revolutionary and Radical movements, 1830 -1848	SS
September	5 <sup>TH</sup> SEM	Cc12 History of India (c 1750s – 1857) I.	IV. Rural Economy and Society: a) Land revenue systems and forest policy b) Commercialization and indebtedness c) Rural society : change and continuity. d) Famines e) Pastoral economy and shifting cultivation.	DB
September	5 <sup>th</sup> sem	DSE-A-1 SEM - 5: I. History of Bengal (c.1757-1905)	III. Colonial economy: - Agriculture, trade and industry. IV. Cultural changes and Social and Religious Reform Movements: Christian missionaries- The advent of printing and its implications, education: Indigenous and western - Hindu and Muslim religious revivalist movements.	SSG
September	5 <sup>th</sup> sem	DSE B1 History of Modern East Asia – I China (c.1840 – 1949)	c) Agrarian and Popular Movements : Taiping and Yi Ho Tuan d) Attempts at Self-Strengthening (Tzu-Chiang): Reforms of 1860-95; 1898; and 1901-08	AM
November	1 <sup>st</sup> sem	CC1 (HISTORY OF INDIA, FROM THE EARLIEST TIMES	III. The Harappan civilization: Origins; settlement patterns and town planning;	SS,SSG

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		TO C 300 BCE)	agrarian base; craft productions and trade; social and political organization; religious beliefs and practices; art; the problem of urban decline and the late/post-Harappan traditions..	
November	1 <sup>st</sup> sem	CC2 (SOCIAL FORMATION AND CULTURAL PATTERNS OF THE ANCIENT WORLD OTHER THAN India)	. III. Bronze Age civilizations, with reference to any one of the following : i)Egypt (Old Kingdom); ii)China(Shang), economy, social stratification, state structure, religion.	AM,DB
November	3 <sup>rd</sup> sem	CC5(HISTORY OF INDIA C750-1206)	. III. Agrarian structure and social change: a) Agricultural expansion; crops b)Landlords and peasants c)Proliferation of castes: status of untouchables d) Tribes as peasants and their place in the Varna order	SSG,DB
November	3 <sup>rd</sup> Sem	CC6(RISE OF THE MODERN WEST)	V. a) Economic developments b.) Shift of economic balance from the Mediterranean to the Atlantic c.) Commercial Revolution d.) Price Revolution e.) Agricultural Revolution and the Enclosure Movement	SS
November	3 <sup>RD</sup> Sem	CC7 HISTORY OF INDIA(C1206-1526)	IV. Religion and Culture: a. Sufi silsilas: Chishtis and Suhrawardis; doctrines and practices; social roles. b. Bhakti movements and monotheistic traditions in South and North India; Women Bhaktas; Nathpanthis; Kabir, Nanak and the Sant tradition c. Sufi literature; Malfuzat; Premakhayans d. Architecture of the Delhi Sultanate	AM,DB
November	3 <sup>rd</sup> sem	SEC A1: (Archives and museums )	II. Types of archives and museums: Understanding the traditions of preservation in India Collection policies, ethics and procedures Collection: field exploration, excavation, purchase, gift and bequests, loans and deposits, exchanges, treasure trove confiscation and others. Documentation: accessioning, indexing, cataloguing, digital documentation and deaccessioning Preservation: curatorial care, preventive conservation, chemical preservation and restoration	SSG
November	5 <sup>th</sup> Sem	CC11 History of	III. Capitalist Industrialization and Social	SS

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		Modern Europe (c.1780 – 1939)	<p>and Economic Transformation (Late 18<sup>th</sup> century to AD 1914)</p> <p>a) Process of capitalist development in industry and agriculture: case studies of Britain, France, the German States and Russia.</p> <p>b) Evolution and Differentiation of social classes : Bourgeoisie, proletariat, Land Owning classes and peasantry.</p> <p>c) Changing trends in demography and urban patterns</p> <p>d) Family, gender and process of industrialization.</p> <p>IV. Varieties of Nationalism and the Remaking of States in the 19<sup>th</sup> and 20<sup>th</sup> centuries.</p> <p>a) Intellectual currents, popular movements and the formation of National identities in Germany, Italy, Ireland and the Balkans.</p> <p>b) Specifications of economic development, political and administrative Reorganization – Italy; Germany.</p> <p>c) Revolutions of 1905; the Bolshevik Revolution of 1917</p> <p>d) Programme of Socialist Construction and the Soviet Union during the inter-war period 1918-39</p>	
DECEMBER	5 <sup>TH</sup> SEM	Cc12 History of India (c 1750s – 1857) I.	<p>V. Trade and Industry</p> <p>a) De industrialization</p> <p>b) Trade and fiscal policy</p> <p>c) Drain of Wealth</p> <p>d) Growth of modern industry</p>	DB
November	5 <sup>th</sup> sem	DSE-A-1 SEM - 5: I. History of Bengal (c.1757-1905)	<p>V. Social Reforms and the women's question.</p> <p>VI. Protest movements and insurgencies against the Raj: The Fakir and Sannyasi revolts, Indigo Revolt (1859-1860), Pabna Peasant Uprisings (1873-76)</p>	SSG
NOVEMBER	5 <sup>th</sup> sem	DSE B1 History of Modern East Asia – I China (c.1840 – 1949)	<p>ii) The Emergence of Nationalism in China</p> <p>a) The Revolution of 1911: Causes , nature and significance; the social composition of the Revolution; Sun Yat-sen and his contribution; the formation of the</p>	AM

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			Republic; Yuan Shih Kai; War Lordism. b)May Fourth Movement of 1919: Nature and Significance	
December	1 <sup>st</sup> sem	CC1 (HISTORY OF INDIA, FROM THE EARLIEST TIMES TO C 300 BCE)	IV. Cultures in transition Settlement patterns, technological and economic developments; social stratification; political relations; religion and philosophy; the Aryan problem. a) North India (circa 1500 BCE – 300 BCE) b) Central India and the Deccan (circa 1000 BCE – circa 300 BCE)	SS,SSG
DECEMBER	1 <sup>ST</sup> SEM	CC2 (SOCIAL FORMATION AND CULTURAL PATTERNS OF THE ANCIENT WORLD OTHER THAN India	IV. Nomadic groups in Central and West Asia; Debate on the advent of iron and its implications. V. Slave society in ancient Greece & Rome: agrarian economy, urbanization, trade. VI. Polis in ancient Greece: Athens and Sparta; Greek culture.	AM,DB
December	3 <sup>rd</sup> sem	SEC A1: (Archives and museums )	III. Museum Presentation and Exhibition:	SSG
December	5 <sup>th</sup> sem	CC11 History of Modern Europe (c.1780 – 1939)	V. Imperialism, War and Crisis: c.1880 - 1918 a) Theories and mechanisms of imperialism; b) Growth of Militarism; c) Power blocks and alliances; d) Expansion of European empires e) War of 1914 - 1918 VI. Europe between Two World Wars: a) Post War Europe: A Diplomatic History b) The Great Depression c) Rise of Fascism in Italy and Nazism in Germany d) The Spanish Civil War e) Policy of Appeasement and Russo German Non-Aggression Pact f) Origins and Course of the Second World War	SS
December	Sem-5	DSE-A-1 SEM - 5: I. History of Bengal (c.1757-1905)	Social Reforms and the women's question. VI. Protest movements and insurgencies against the Raj: The Fakir and Sannyasi revolts, Indigo Revolt (1859-1860), Pabna Peasant Uprisings (1873-76)  VII. Partition of Bengal 1905: Curzon and the administrative blueprint	SSG

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December	SEm-5	CC-12: History of India (c 1750s – 1857) I.	VI. Popular Resistance: a) Santhal uprising (1857); Indigo rebellion (1860); Pabna Agrarian Leagues(1873); Deccan riots (1875) b) Uprising of 1857	SSG
DEcember	SEM-5	DSE B1 History of Modern East Asia – I China (c.1840 – 1949)	a)The Revolution of 1911: Causes , nature and significance; the social composition of the Revolution; Sun Yat-sen and his contribution; the formation of the Republic; Yuan Shih Kai; War Lordism. b)May Fourth Movement of 1919: Nature and Significance	AM
DECEMBER	5 <sup>th</sup> sem	DSE B1 History of Modern East Asia – I China (c.1840 – 1949)	II. History of China (cc.1919 – 1949) i) Nationalism and Communism in China (1921 – 1937) a) Formation of CCP; and the b) The First United Front i)The Communist Movement (1938-1949) ii)The Jiangxi Period and the rise of Mao Tse Tung	AM
January 2023	2 <sup>nd</sup> Sem	CC 3 (: History of India C 300 BCE to C 750 CE)	. I. Economy and Society (circa 300 BCE to circa CE 300) a)Expansion of agrarian economy : production relations b)Urban growth: north India, central India and the Deccan; craft Production: trade and trade routes; coinage c)Social stratification: class, Varna, Jati, untouchability; gender; marriage and property relations.	AM,DB
January	2 <sup>nd</sup> Sem	CC4 (Social Formations and Cultural patters of the Medieval World other than India)	III. Crisis of the Roman Empire and its principal causes: Historiography	SS,SSG
,january	4 <sup>TH</sup> SEM	CC8(RISE OF THE MODERN WEST-II)	I.Printing Revolution Revolution in war techniques.	SS
january	4 <sup>TH</sup> SEM	CC9(HISTORY OF	I. Sources and Historiography:	SS,SSG

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		INDIA C 1526-1605)	a) Persian literary culture; translations; Vernacular literary traditions. b) Modern Interpretations	
,january	4 <sup>TH</sup> SEM	CC 10(HISTORY OF INDIA C 1605-1750)	I. Sources: Persian and vernacular literary cultures, histories, memoirs and travelogues II. Political Culture under Jahangir and Shah Jahan a) Extension of Mughal rule; changes in Mansab and Jagir systems; imperial culture b) Orthodoxy and syncretism – Naqshbandi Sufis, Miyan Mir, Dara Shukoh, Samra	DB,AM
January	4 <sup>th</sup> Sem	SEC -B 1: Understanding Popular Culture	I Introduction: Defining popular culture and understanding it historically	SSG
January	6 <sup>th</sup> sem	CC-13 : History of India (c. 1857 – 1964) I.	I. Cultural changes and Social and Religious Reform Movements: a) Growth of a new intelligentsia – the Press and Public Opinion b) Reform and Revival : Brahmo Samaj, PrarthnaSamaj, and Ramakrishna and Vivekananda, Arya Samaj, Wahabi, Deoband, Aligarh and Singh Sabha Movements. c) Debates around gender d) Making of religious and linguistic identities e) Caste : Sanskritising and anti Brahminical trends	DB
January	6 <sup>th</sup> sem	CC14 History of India (c. 1857 – 1964)	The Cold War: Weakening of European balance of power: Origins of The Cold War: Yalta and Potsdam Conferences; End of wartime alliance	SS
JANUARY	6 <sup>TH</sup> SEM	History of Bengal (c.1905-1947)	Partition of Bengal and Swadeshi Movement (1905-08) Political ideology and organizations, rise of Extremism in Bengal, Swadeshi movement, Revolutionary terrorism.	SSG
JANUARY	6 <sup>TH</sup> SEM	DSE B3:HISTORY OF MODERN EAST ASIA-II JAPAN(1868-1945)	) Transition from feudalism to capitalism: a) Crisis of Tokugawa Bakuhan system b) Meiji Restoration : Its nature and Significance c) Political Reorganization d) Military Reforms 45 e) Social, cultural and educational reforms (Bunmeikaika) f) Financial reforms and educational development in the 'Meiji' era g) Meiji Constitution	

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JANUARY	2 <sup>nd</sup> sem	CC3(HISTORY OF INDIA C300BCE to c750CE)	II. Towards early medieval India (circa CE fourth century to CE 750): a) Agrarian expansion: land grants, changing production relations; graded land rights and peasantry. b)The problem of urban decline: patterns of trade, currency, and urban settlements. c)Varna, proliferation of Jatis: changing norms of marriage and property d) The nature of polities: the Gupta empire and its contemporaries: post-Gupta polities- Pallavas, Chalukyas, and Vardhanas.	SS
February	2 <sup>nd</sup> Sem	Cc4((SOCIAL FORMATION AND CULTURAL PATTERNS OF THE MEDIEVAL WORLD OTHER THAN India)	Historiography	AM,DB
February	4 <sup>TH</sup> SEMSem	CC8(RISE OF THE MODERN WEST-II)	a.Crisis in Europe in the 17 <sup>th</sup> Century b.Itseconomic,social and political dimintions.	SS,SSG
February	4 <sup>TH</sup> SEM	CC9(HISTORY OF INDIA C 1526-1605)	II. Establishment of Mughal rule: a) India on the eve of Babur's Invasion b) Fire arms, military technology and warfare c) Humayun's struggle for empire d) Sher Shah and his administrative and revenue reforms	SS
February	4 <sup>TH</sup> SEM	CC 10(HISTORY OF INDIA C 1605-1750)	II. Mughal Empire under Aurangzeb a) State and religion under Aurangzeb; issues in the war of succession; policies regarding religious groups and institutions b) Conquests and limits of expansion c) Beginning of the crisis: contemporary perceptions; agrarian and Jagir crises; revolts.	SSG,SS
January	4 <sup>th</sup> Sem	SEC -B 1: Understanding Popular Culture	II Visual expressions Folk art, calendar art, photography	
February	6 <sup>TH</sup> SEM	CC-13 History of India (c. 1857 – 1964)	II. Nationalism : Trends up to 1919 a)Formation of early political organizations b) Moderates and extremists c)Swadeshi movement	DB,AM

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			d) Revolutionaries	
		Cc14 CC14 History of India (c. 1857 – 1964)	The USA in World Politics: Truman Doctrine, Marshall Plan, NATO. III. The USSR in World Politics: Molotov Plan, COMECON and Cominform; Sovietisation of Eastern Europe; Berlin Blockade; Warsaw Pact.	SS
JANUARY	6 <sup>TH</sup> SEM	DSE B3:HISTORY OF MODERN EAST ASIA-II JAPAN(1868-1945)	II) Japanese Imperialism a) China b) Manchuria c) Korea	AM
FEBRUARY	4 <sup>TH</sup> Sem	SEC -B 1: Understanding Popular Culture	III. Performance: Theatre; music; folk tales/songs/swang and Nautanki: Identifying themes, functionality, anxieties	SSG
February	2 <sup>ND</sup> SEM	CC3(HISTORY OF INDIA C300BCE to c750CE)	IV. Religion, philosophy and society	SSG
February	2 <sup>ND</sup> SEM	Cc4((SOCIAL FORMATION AND CULTURAL PATTERNS OF THE MEDIEVAL WORLD OTHER THAN India)	Religion and Culture in Medieval Europe	SS
March	4 <sup>TH</sup> SEM	CC8(RISE OF THE MODERN WEST-II)	III. a.) The English Revolution : major issues b.) Political and intellectual issues	AM,DB
March	4 <sup>TH</sup> SEM	CC9(HISTORY OF INDIA C 1526-1605)	III. Consolidation of Mughal rule under Akbar: a) Campaigns and conquests: tactics and technology b) Evolution of administrative institutions : Zabt, Masnab, Jagir, Madad-I-Maash c) Revolts and resistance	SS,SSG
March	4 <sup>TH</sup> SEM	CC 10(HISTORY OF INDIA C 1605-1750)	IV. Visual Culture: Paintings and Architecture V. Patterns of Regional Politics: a) Rajput political culture and state formation b) Deccan kingdoms; emergence of the Marathas; Shiva; expansion under the Peshwas c) Mughal decline; emergence of successor states d) Interpreting eighteenth century India:	SS

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			recent debates	
March	4 <sup>th</sup> sem	SEC -B 1: Understanding Popular Culture	V. Fairs, Festivals and Rituals: Disentangling mythological stories, patronage, regional variations VI. Popular culture in a globalized world: The impact of the Internet and audio-visual media	SSG
March	6 <sup>th</sup> sem	CC-13 : History of India (c. 1857 – 1964) I.	III. Gandhian nationalism after 1919 : Ideas and Movements: a)Mahatma Gandhi : his Perspectives and Methods b)i) Impact of the First World War ii) Rowlatt Satyagraha and Jalianwala Bagh iii)Non-Cooperative and Civil Disobedience iv)Provincial Autonomy, Quit India and INA c)Left wing movements d)Princely India : States people movements	DB
march	6 <sup>TH</sup> SEM	Cc14) CC14 History of India (c. 1857 – 1964)	IV. Manifestation of Cold War: The Korean Crisis- End of French Colonial rule in Indo-China and the Vietnam War – Cuban Crisis. V. De-Stalinisation; Thaw in Cold War; Détente and road to the ending of Cold War.	
MARCH	6 <sup>TH</sup> SEM	DSE A-3 History of Bengal (c.1905-1947)	Communal Politics: 1906- 30 Birth of Muslim League, and the Hindu response. III. Gandhian nationalism after 1919, Non-Cooperation and Khilafat movement, Swaraj party, Civil Disobedience movement, Revolutionary Nationalists and the beginnings of Left politics in the 1920s, Rise of KrishakPraja Party, Muslim League in Bengal politics	SSG
March	6 <sup>th</sup> sem	DSE B3:HISTORY OF MODERN EAST ASIA-II JAPAN(1868-1945)	3) Democracy and Militarism / Fascism a) Popular/ People's Rights Movement b) Nature of political parties	
March	2 <sup>nd</sup> sem	CC3(HISTORY OF INDIA C300BCE to c750CE)	IV.Religion,philosophy and society	DB,AM
MARCH	4 <sup>TH</sup> SEM	SEC -B 1: Understanding Popular Culture	IV. The audio-visual: cinema and television: Indian cinema: Mapping the influence of the national struggle for independence (1930s and 40s); Idealized nationalism (1950s), disillusionment and the anti-establishment mood (1970s and 80s); documentary films Expressions of popular culture in television	SSG
MARCH	4 <sup>TH</sup> SEM	CC8(RISE OF THE MODERN WEST-	III.The English Revolution	SS

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		II)		
April	4 <sup>TH</sup> SEM	CC9(HISTORY OF INDIA C 1526-1605)	iii.Consolidation of Mughal rule under Akbar	AM,DB
April	4 <sup>TH</sup> SEM	CC 10(HISTORY OF INDIA C 1605-1750)	III.Muughal empire under Aurangzeb	SS,SSG
April	6 <sup>TH</sup> SEM	CC-13 : History of India (c. 1857 – 1964) I.	II. Nationalism : Trends up to 1919 a)Formation of early political organizations b) Moderates and extremists c)Swadeshi movement d)Revolutionaries	DB
		CC14 History of India (c. 1857 – 1964)	VI. Disintegration and Decline of the Soviet Union – Glasnost and Perestroika – Crisis of Socialist regimes in other East European Countries: Poland, Germany, Czechoslovakia, Hungary – Response of the USA; Rise of a Unipolar World system, Globalization. VII. Emergence of the People’s Republic of China – China and the USA – Sino-Soviet rift.	
April	4 <sup>TH</sup> SEM	CC9(HISTORY OF INDIA C 1526-1605)	IV. Expansion and Integration: a)Incorporation of Rajputs and other indigenous groups in Mughal nobility. b)North-West frontier, Gujarat and the Deccan c) Conquest of Bengal V. Rural Society and Economy: a)Land rights and revenue system; Zamindars and Peasants; rural tensions b)Extension of agriculture; agricultural production; crop patterns c) Trade routes and patterns of internal commerce; overseas trade; rise of Surat	SS,SSG
April	4 <sup>TH</sup> SEM	CC 10(HISTORY OF INDIA C 1605-1750)	IV. Visual Culture: Paintings and Architecture V. Patterns of Regional Politics: a) Rajput political culture and state formation b) Deccan kingdoms; emergence of the Marathas; Shiva; expansion under the Peshwas c) Mughal decline; emergence of successor states d) Interpreting eighteenth century India: recent debates	DB,AM
April	6 <sup>th</sup> sem	CC-13 : History of India (c. 1857 – 1964) I.	III. Gandhian nationalism after 1919 : Ideas and Movements: a)Mahatma Gandhi : his Perspectives and Methods b)i) Impact of the First World War	DB

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			ii) Rowlatt Satyagraha and Jalianwala Bagh iii) Non-Cooperative and Civil Disobedience iv) Provincial Autonomy, Quit India and INA c) Left wing movements d) Princely India : States people movements	
April	6 <sup>TH</sup> SEM	CC-14: History of India (c. 1857 – 1964) I.	VIII. West Asian Crisis – Palestine and Western Powers – Birth of Israel – Arab-Israel Conflict – The Suez Crisis (1956); Origin and Formation of PLO; Yom Kippur War(1973) ; Camp David Accord(1979); Oslo Peace Accord(1993).	DB
APRIL	6 <sup>TH</sup> SEM	History of Bengal (c.1905-1947)	Government of India Act 1935 and its aftermath: V. Peasant Movements in Bengal 1920-1946, Labour Movement in Bengal 1920-1946, Caste Movement in Bengal 1920-1946, Women's Movements in Bengal 1920-1946	SSG
March	6 <sup>th</sup> sem	DSE B3:HISTORY OF MODERN EAST ASIA-II JAPAN(1868-1945)	3) Democracy and Militarism / Fascism a) Popular/ People's Rights Movement b) Nature of political parties	
May	2 <sup>nd</sup> Sem	CC3(HISTORY OF INDIA C300BCE to c750CE)	v.Cultural Developments	AM,DB
May	2 <sup>nd</sup> Sem	Cc4((SOCIAL FORMATION AND CULTURAL PATTERNS OF THE MEDIEVAL WORLD OTHER THAN India)	Judaism and Christianity under Islam	SS,SSG
May	4 <sup>TH</sup> SEM	CC8(RISE OF THE MODERN WEST-II)	European economy	SS
May	4 <sup>TH</sup> SEM	CC9(HISTORY OF INDIA C 1526-1605)	V.Rural Society and Economy	SS,SSG
May	4 <sup>TH</sup> SEM	CC 10(HISTORY OF INDIA C 1605-1750)	v.Patterns of Regional Politics.	DB,AM
MAY	6 <sup>TH</sup> SEM	CC-13 : History of India (c. 1857 – 1964) I.	b)i) Impact of the First World War ii) Rowlatt Satyagraha and Jalianwala Bagh iii) Non-Cooperative and Civil	DB

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			<p>Disobedience</p> <p>iv)Provincial Autonomy, Quit India and INA</p> <p>c)Left wing movements</p> <p>d)Princely India : States people movements</p> <p>IV. Nationalism and Social Groups : Interfaces:</p> <p>a) Landlords, Professionals and Middle Classes</p> <p>b)Peasants</p> <p>c)Tribals</p> <p>d)labours</p> <p>e)Dalits</p> <p>f)Women</p> <p>g)Business groups</p>	
May	6 <sup>th</sup> sem	Cc14 History of India (c. 1857 – 1964) I.	. IX. Decolonization: The African Case Study: Ghana, Algeria, Congo, Kenya	SS
June	6 <sup>TH</sup> SEM	CC-13 : History of India (c. 1857 – 1964) I	<p>V.Communalism : Ideologies and practices, RSS , Hindu Maha Sabha, Muslim League</p> <p>VI. Independence and Partition</p> <p>a)Negotiations for independence and partition</p> <p>b)Popular movements</p> <p>c)Partition riots</p> <p>VII. Emergence of a New State:</p> <p>a)Making of the Constitution</p> <p>b)Integration of princely states</p> <p>c) Land reform and beginnings of planning</p> <p>d) The Nehru years.</p>	DB
June	6 <sup>TH</sup> SEM	Cc14 History of India (c. 1857 – 1964)	X. Protest Politics: Civil Rights Movement, Anti-Apartheid Movement and the end of Apartheid (1994), Second Wave Feminist Movement	SS
JUNE	6 <sup>TH</sup> SEM	SEM -6: History of Bengal (c.1905-1947)	Subhash Chandra Bose and the Congress, Quit India Movement in Bengal, Post war upsurges in Bengal- Left wing movements. VIII. Independence and Partition: Communal Riots, the great Calcutta killing and Noakhali riots, Hindu Mahasabha, Muslim League, freedom and Partition, Birth of West Bengal and East Pakistan	SSG

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March	6 <sup>th</sup> sem	DSE B3:HISTORY OF MODERN EAST ASIA-II JAPAN(1868-1945	c) Rise of Militarism-Nature and significance d) Second World War; American occupation e) Post-War Changes.	
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### (HISTORY GENERAL)

2022 July	1 <sup>st</sup> sem	CC/ge1)History of India from Earliest Times up to 300 CE	Sources & Interpretation	SS,SSG
August	1 <sup>st</sup> sem	CC/ge1) History of India from Earliest Times up to 300 CE	A broad survey of Palaeolithic, Mesolithic and Neolithic Cultures.	AM,DB
July	3 <sup>rd</sup> sem	CC-3/GE-3 : History of India from 1206 to1707	II.Military, administrative &economic reforms under the Khiljis&the Tughlaqs. III. Bhakti &Sufi Movements.	SSG,DB
August	3 <sup>rd</sup> Sem	CC-3/GE-3 : History of India from 1206 to1707	IV.Provincialkingdoms: Mewar, Bengal, Vijaynagara&Bahamanis. V. Second Afghan State.	SS
August	3 <sup>RD</sup> Sem	SEC-A- 1: Historical Tourism: Theory &Practice	I I. Defining Heritage Art &Architecture in India: An overview: Field Work: Visit to historical sites &Museums	SSG
July	5 <sup>th</sup> sem	DSE- A -2: Some Aspects of European History: C.1780-1945	I.The French Revolution: Genesis Nature & Consequences	SS
jULY	5 <sup>TH</sup> SEM	SEC A2	I. Environment; Culture, Tradition &Practices: -Historical overview -Oral &codified information on medicinal Plants - Water & Water Bodies -Fieldwork	SSG
JULY	5 <sup>TH</sup> SEM	DSE- A -2: Some Aspects of European History: C.1780-1945	II.Napoleonic Era and aftermath. III.Revolutions of 1830 & 1848.	SS
July.	5 <sup>TH</sup> sem	SEC A2	II. Urbanization &Urbanism: -Issues of settlements & Landscapes -Social differentiations -Communication networks III. Social inequality &Gender: -Status within Households: An overview -Present context - Issues of Violence -Employment,	SSG

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			distribution of resources	
July	5 <sup>th</sup> sem	DSE- A -2: Some Aspects of European History: C.1780	III.Revolutions of 1830 & 1848. IV.Unification of Italy & Germany. V.Social and economic Changes	AM
AUGUST	1 <sup>st</sup> sem	CC/ge1) History of India from Earliest Times up to 300 CE	III. Harappan Civilization : Origin, Extent, dominant features & decline, Chalcolithic age. IV. The Vedic Period: Polity, Society, Economy and Religion, Iron Age with reference to PGW & Megaliths. V. Territorial States and the rise of Magadha, Conditions for the rise of Mahajanpadas and the Causes of Magadha's success VI. Iranian and Macedonian Invasions, Alexander's Invasion and impact VII. Jainism and Buddhism: Causes, Doctrines, Spread, Decline and Contributions VIII. The Satavahanas Phase: Aspects of Political History, Material Culture, Administration, Religion.	SS,SSG
	3 <sup>rd</sup>	SEC-A- 1: Historical Tourism: Theory & Practice	II. Understanding Built Heritage: Stupa Architecture Temple Architecture Indo Persian Architecture, Forts, Palaces, Mosques Colonial Architecture Present day structures	SSG
September	1 <sup>st</sup> sem	CC/ge1) History of India from Earliest Times up to 300 CE	VIII. Emergence and Growth of Mauryan Empire; State Administration, Economy, Ashoka's Dhamma, Art & Architecture IX. The Satvahana Phase: Aspects of Political History, Administration, Material Culture, & Religion X. The Sangam Age: Sangam Literature, The three Early Kingdoms, Society & the Tamil language	SS,SSG
September	1 <sup>st</sup> sem	CC/ge1) History of India from Earliest Times up to 300 CE	XI. The age of the Indo-Greeks, Shakas: Parthians & Kushanas: Aspects of Polity, Society, Religion, Arts & Crafts, Coins, Commerce and Towns.	AM,DB
September	3 <sup>rd</sup> sem	CC-3/GE-3 : History of India from 1206 to 1707	VI. Emergence and consolidation of Mughal State, C.16th century to mid 17th century. VII. Akbar to Aurangzeb: administrative structure-Mansab & Jagirs, State & Religion, SocioReligious Movements.	SSG,DB
September	3 <sup>rd</sup> Sem	SEC-A- 1: Historical Tourism: Theory & Practice	III. Field Work: Visit to site & Conducting of research	SSG
September	3 <sup>RD</sup> Sem	DSE- A -2: Some Aspects of European	VI. Emergence and consolidation of Mughal State, C.16th century to mid 17th century. VII. Akbar to Aurangzeb: administrative	AM,DB

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		History: C.1780	structure-Mansab& Jagirs, State &Religion, SocioReligious Movements.	
September	5 <sup>TH</sup> SEM	DSE- A -2: Some Aspects of European History: C.1780	VI. Imperialist Conflicts: World War I VII.Rise of Fascism and Nazism.	SS
September	5 <sup>TH</sup> SEM	DSE- A -2: Some Aspects of European History: C.1780	VIII. Origins of World War II	DB
September	5 <sup>th</sup> sem	SEC A2	REVISION	SSG
September	5 <sup>th</sup> sem	DSE- A -2: Some Aspects of European History: C.1780	REVISION	AM
November	1 <sup>st</sup> sem	CC/ge1) History of India from Earliest Times up to 300 CE	XI. The age of the Indo-Greeks, Shakas: Parthians &Kushanas: Aspects of Polity, Society, Religion, Arts &Crafts, Coins, Commerce and Towns.	SS,SSG
November	1 <sup>st</sup> sem	CC/ge1) History of India from Earliest Times up to 300 CE	REVISION	AM,DB
November	3 <sup>rd</sup> sem	DSE- A -2: Some Aspects of European History: C.1780	REVISION	SSG,DB
November	3 <sup>rd</sup> Sem	SEC A2	REVISION	SS
November	5 <sup>th</sup> Sem	DSE- A -2: Some Aspects of European History: C.1780	REVISION	SSG
November	5 <sup>th</sup> sem		REVISION	SSG
December	5 <sup>TH</sup> sem		REVISION	DB
December	Sem-5		REVISION	DB
December	SEm-5		REVISION	SSG
December	SEM-5		REVISION	AM
January 2021	2 <sup>nd</sup> Sem	CC2/GE2	-The Rise & Growth of the Guptas: Administration, Society, Economy, Religion, Art, Literature, and Science &Technology.	AM,DB
January	2 <sup>nd</sup> Sem	CC2/GE2	- Harsha & His Times: Harsha's Kingdom, Administration,Buddhism& Nalanda	SS,SSG
,january	4 <sup>TH</sup> SEM	CC4/GE4	-Interpreting the 18th Century	SS
january	4 <sup>TH</sup> SEM	CC4/GE4	-Emergence of Independent States &establishment of Colonial power.	SS,SSG
JANUARY	4 <sup>TH</sup> SEM	CC4/GE4	-Expansion &consolidation of Colonial Power upto 1857.	DB,AM

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JANUARY	6 <sup>th</sup> sem	DSE-B2	-Historiographical Trends -Feudal Crisis: Main strands	SSG
JANUARY	6 <sup>TH</sup> SEM	SEC-B2 : Indian History & Culture	-Defining orality -History & Historiography of Orality	SS
February	2 <sup>nd</sup> Sem	CC2/GE2	- South India: Polity, Society, Economy & Culture	AM,DB
February	2 <sup>nd</sup> Sem	CC2/GE2	- Towards the Early Medieval: Changes in Society, Polity Economy and Culture with reference to the Pallavas, Chalukayas and Vardhanas.	SS,SSG
February	4 <sup>TH</sup> SEM	CC4/GE4	-Uprising of 1857: Causes, Nature & Aftermath.	SS
February	4 <sup>TH</sup> SEM	CC4/GE4	-Colonial economy: Agriculture, Trade & Industry.	SSG,SS
February	4 <sup>TH</sup> SEM	CC4/GE4	-Socio-Religious Movements in the 19th century.	DB,AM
February	6 <sup>th</sup> sem	DSE-B2	-Renaissance: Origin, Spread & Dominant Features	SSG
February	6 <sup>th</sup> sem	SEC-B2	Life Histories: Sociological Aspects	SS
March	2 <sup>nd</sup> Sem	CC2/GE2	-Evolution of Political structures of Rashtakutas, Pala & Pratiharas.	AM,DB
March	2 <sup>nd</sup> Sem	CC2/GE2	-Emergence of Rajput States in Northern India: Polity, Economy & Society.	SS,SSG
March	4 <sup>TH</sup> SEM	CC4/GE4	-Emergence & Growth of Nationalism with focus on Gandhian nationalism.	SS
March	4 <sup>TH</sup> SEM	SECB-1	Definitions	SS,SSG
March	4 <sup>TH</sup> SEM	SECB-1	History of setting up of Museums and Archives: Some case Studies	DB,AM
March	6 <sup>th</sup> sem	DSE-B2	-European Reformation: Genesis, nature & Impact -Beginning of the era of colonization: motives; mining and plantation; the African slaves	SSG
MARCH	6 <sup>TH</sup> SEM	SEC-B2	-Research Methodologies	SS
April	2 <sup>nd</sup> Sem	CC2/GE2	-Arabs in Sindh: Polity, Religion & Society	AM,DB
April	2 <sup>nd</sup> Sem	CC2/GE2	.-Struggle for power in Northern India & establishment of Sultanate.	SS,SSG
April	4 <sup>TH</sup> SEM	CC4/GE4	-Communalism: Genesis, Growth and partition of India	SS
April	4 <sup>TH</sup> SEM	CC4/GE4	-Advent of Freedom: Constituent Assembly, establishment of Republic	SS,SSG
April	4 <sup>TH</sup> SEM	SECB-1	-Field Work; Studying of structures & Functions -Training & Employment	DB,AM
April	6 <sup>th</sup> sem	DSE-B2	-Economic developments of the sixteenth century; Shift of economic balance from the Mediterranean to the Atlantic -Transition from Feudalism to Capitalism:	SSG

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			Industrial Revolution in England	
April	6 <sup>TH</sup> SEM	SEC-B2	-Documentation: Written & Visual	SSG
May	2 <sup>nd</sup> Sem	CC2/GE2	REVISION	AM,DB
May	2 <sup>nd</sup> Sem	CC2/GE2	REVISION	SS,SSG
May	4 <sup>TH</sup> SEM	CC4/GE4	REVISION	SS
May	4 <sup>TH</sup> SEM	CC4/GE4	REVISION	SS,SSG
May	4 <sup>TH</sup> SEM	SECB-1	REVISION	DB,AM
MAY	6 <sup>TH</sup> SEM	DSE-B2	REVISION	SSG
May	6 <sup>th</sup> sem	DSE-B2	REVISION	SS
June	6 <sup>TH</sup> SEM	SEC-B2	REVISION	SSG
June	6 <sup>TH</sup> SEM	SEC-B2	REVISION	SSG

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Department of Mathematics

Academic Plan for Odd Semester 2022

Subject: Mathematics Honours

M	Paper/ Course	Module / Unit	Topic/Unit	Name of the teacher	Month
F I R S T  S E M E S T E R	C O R E  C O U R S E  O N E	UNIT I	<b>Differential Calculus:</b> Higher Order Derivatives , Leibnitz Rule	ARC	Sept
			<b>Integral Calculus:</b> Reduction Formula	ARC	
		UNIT II	<b>Analytical Geometry of 2 Dimensions:</b> General equation of second degree in $x$ and $y$ .	NM	
		UNIT II	<b>Analytical Geometry of 3 Dimensions:</b> Co-ordinate, Plane, Straight Line, Central Conicoids.	NM	
		UNIT III	<b>Vector Analysis:</b> Scalar and Vector products of three vectors, Simple applications to problems of Geometry.	NM	
		UNIT I	<b>Differential Calculus:</b> Curvature, Concavity, Envelope, Asymptote.	ARC	Oct
			<b>Integral Calculus:</b> Parametric Equations, Arc Length of Parametric Curves	ARC	
		UNIT II	<b>Analytical Geometry of 2 Dimensions:</b> Tangent & Normal,	NM	
		UNIT II	<b>Analytical Geometry of 3 Dimensions:</b> Straight Line, Sphere, Cylinder.	NM	
		UNIT III	<b>Vector Analysis:</b> Theory of Couples, System of Parallel Forces.	NM	

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		UNIT I	<b>Differential Calculus:</b> Curve Tracing, L'Hospital's Rule, Application of Differential Calculus	ARC	Nov - Dec
			<b>Integral Calculus:</b> Area and Volume	ARC	
		UNIT II	<b>Analytical Geometry of 2 Dimensions:</b> Polar Equation	NM	
		UNIT II	<b>Analytical Geometry of 3 Dimensions:</b> Central Conicoids, Generating lines, Classifications of Quadrics, Tangent & Normals of Conicoids	NM	
		UNIT III	<b>Vector Analysis:</b> Introduction to Vector Functions, Limits, Continuity, Differentiations & Integrations of Vector Functions	NM	
F I R S T  S E M E S T E R	C O R S E  C O U R S E  T W O	Unit I	<b>Classical Algebra :</b> Complex Numbers – Polar representation of complex numbers, n-th roots of unity, De-Moivre's Theorem and its application, Exponential, logarithmic.	ARC	Sept
		Unit II	<b>Abstract Algebra:</b> Relation and Mapping	MBS	
		Unit III	<b>Linear Algebra :</b> Rank of a matrix, Characterizations of Invertible matrix	MBS	
		Unit I	<b>Classical Algebra :</b> Complex Number - Trigonometric and hyperbolic functions of complex variable.	ARC	Oct
			<b>Classical Algebra :</b> Theory of Equation – Descartes's Rule, Sturm's Theorem, Relation between roots and coefficients.	ARC	
			<b>Classical Algebra :</b> Inequality – $AM \geq GM \geq HM$ , Cauchy – Schwartz Inequality.	ARC	
	Unit II	<b>Integer :</b> Well Ordering Property and Principle of Mathematical Induction, Division Algorithm, Divisibility and Euclidean Algorithm, prime numbers, Euclid's Theorem, Congruence.	MBS		



		Unit III	<b>Linear Algebra :</b> System of linear equations, Row reduction and Echelon forms, Vector Equations , The matrix equation $AX = B$ . Solution sets of linear systems and application of linear systems.	MBS	
		Unit I	<b>Classical Algebra :</b> Theory of Equation - transformation of equation, Solution of cubic equation by Cardan's Method, Solution of biquadratic equation by Ferrari's Method.	ARC	Nov - Dec
			<b>Classical Algebra :</b> Linear Difference Equations with constant coefficients (up to 2 <sup>nd</sup> order)	MBS	
		Unit II	<b>Integer -</b> Chinese Remainder Theorem, Fundamental Theorem of Arithmetic , Arithmetic Functions, $\phi$ , $\tau$ , $\sigma$ functions and their properties.	MBS	
<b>Internal Assessment In January</b>					
<b>Tutorial Examination In January</b>					
<b>Semester End Examination In January</b>					
T H I R D  S E M E S T E R	C O U R S E  F I V E	Unit - I	<b>Limit of Functions :</b> 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 $x \rightarrow 0$ . Properties and examples of continuous functions.	MBS	Aug
		Unit - I	<b>Continuity of Functions :</b> Definition, Sequential criterion for continuity, concept of oscillation of a function at a point. Familiarity with the figures $y = x^a (a = 2, 3, -1, \frac{1}{2})$ , $ x $ , $\sin x$ , $\cos x$ , $\tan x$ , $\log x$ , $e^x$ .	MBS	Sept - Oct

			<p>Concept of Bounded Functions, Intermediate Value Theorem.</p> <p>Discontinuity of Functions, Type of Discontinuity, Step Functions, Piecewise Continuity, Monotone Functions, Jump Discontinuity, Related Theorems.</p> <p>Uniform Continuity, Examples and non-examples of uniform continuity, Lipschitz Condition.</p>		
		Unit – II	<p><b>Differentiability of Functions</b> :Definition, properties and meaning of sign of derivative, Chain Rule.</p> <p>Darboux Theorem, Rolle’s Theorem, Mean Value Theorems of Lagrange and Cauchy.</p>		Nov - Dec
			<p><b>Differentiability of Functions</b> :</p> <p>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 <math>e^x, \log(1+x), (1+x)^m, \sin x, \cos x</math> with their range of validity (assuming relevant theorem). Application of Taylor’s Theorem.</p> <p>Statement of L’ Hospitals rule and its consequences, Concept of extremum of a function of one variable, solve problems regarding maximum / minimum.</p>		
T H I R D  S E M E S T E	C O U R S E	Unit I	<p><b>Ring Theory - II</b> :</p> <p>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.</p> <p>Concept of Ideal, Prime and Maximal Ideals.</p>	RPC	Aug
		Unit II	<p><b>Linear Algebra – II</b> :</p> <p>Definition and examples of Vector Space, Concept of Subspace, Algebra of Subspaces , related examples.</p>	ARC	

R	X	Unit I	<b>Ring Theory – II :</b> 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 - Oct
		Unit II	<b>Linear Algebra – II :</b> 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	<b>Linear Algebra – II :</b> Eigen values, Eigen vectors and Characteristic equation of a matrix, 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.	ARC	Nov - Dec
T H I R D  S E M E S T E R	C O R E  C O U R S E  S E V E N	Unit I	<b>ODE :</b> <b>First Order and First Degree Differential Equation :</b> Exact Differential Equations, Integrating Factor, Linear equations, Bernoulli's Equations, statement of Picard's theorem (Existence and uniqueness theorem) .	NM	Aug
		Unit II	<b>Multivariate Calculus - I</b> Concept of neighbourhood of a point in $R^n$ ( $n > 1$ ), interior point, limit point, open set and closed set in $R^n$ ( $n > 1$ ).	MBS	

		Unit I	<p><b>ODE :</b>  <b>First Order and Higher Degree Differential Equation :</b>  Differential Equations solvable for x, solvable for y, Solvable for p, Clairaut's Equations and singular solution.</p> <p><b>Ordinary Differential Equation:</b>  <b>Linear systems:</b>  Normal form, homogeneous linear systems with constant coefficients : Two Equations in two unknown functions.</p> <p><b>Linear Differential equation of 2<sup>nd</sup> order:</b>  Wronskian : its properties and applications, Euler equation, Method of undetermined coefficients, Method of variation of parameters.</p>	NM	Sept - Oct
		Unit II	<p><b>Multivariate Calculus - I</b>  Functions from <math>R^n</math> (<math>n &gt; 1</math>) to <math>R^m</math> (<math>m \geq 1</math>), limit and continuity of functions of two or more variables .</p>	MBS	
		Unit I	<p><b>System of linear differential Equation:</b>  Types of linear systems, differential operator, an operator method for linear systems with constant coefficients.</p> <p><b>Planar linear autonomus system :</b> critical points, Interpretation of the phase plane and phase portraits.</p> <p><b>Power series solution of a differential equation :</b> Solution about an ordinary point , Solution about a regular singular point (upto 2<sup>nd</sup> order).</p>	NM	Nov - Dec
		Unit II	<p><b>Multivariate Calculus – I :</b></p> <p>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</p>	MBS	

				multipliers, constrained optimization problems.		
T H I R D  S E M E S T E R	S K I L L  E N H A N C E  M E N T  C O U R S E  A	C  P R O G R A M M I N G  L A N G U A G E	Unit I	<b>Fundamentals of Computer :</b> 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. <b>Introduction to C Programming :</b> Character Set, Constants & Variables data type, Expressions, Assignment Statements, Declaration.	ARC	Aug
			Unit I	<b>Introduction to C Programming :</b> Arithmetic Operators, Relational Operators, Logical Operators. Decision making with if statement, if-else statement, Nesting if else statement, switch statement, break and continue statement.  <b>Control Statement:</b> while statement, do while statement, for statement.	ARC	Sept - Oct
			Unit II	<b>Introduction to C Programming :</b> <b>Arrays :</b> one dimension, two dimension and multidimensional arrays, declaration of arrays, initialization of one and multidimensional arrays.  <b>User defined Functions :</b> 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.  <b>Introduction to Library Functions :</b> stdio.h, math.h, string.h, stdlib.h, time.h etc.	ARC	Nov - Dec
<b>Internal Assessment In January</b>						

Tutorial Examination In January					
Semester End Examination In January					
F I F T H  S E M E S T E R	C O R E  C O U R S E  E L E V E N	Unit I	<b>Probability :</b> Random Experiment, Sample Space, Probability Axioms, Conditional Probability, Bayes Theorem. Random Variable, Probability Distribution, Expectation.	SS	Aug
		Unit II	<b>Probability :</b> Joint Probability Distribution, Marginal & Conditional Distributions, Expectation of two random variables, Conditional expectations , Linear regression for two variables, Regrassion Curves, Bivariate normal distribution.	SS	Sept - Oct
		Unit III	<b>Probability :</b> Markov & Chebyshev's inequality, Central Limit Theorem	SS	
		Unit IV	<b>Statistics :</b> Sampling and Sampling Distributions, Estimation of Parameters, Method of Maximum Likelihood	SS	Nov - Dec
		Unit V	<b>Statistics :</b> Hypothesis Bivariate Frequency Distribution	SS	
F I F T H  S E M E S T E R	C O R E  C O U R S E  T W E L V	Unit I	<b>Group Theory :</b> Automorphism	RPC	Aug
		Unit II	<b>Linear Algebra :</b> Inner Product Space and Norms, Gram-Schmidt Orthonormalization Process, Orthogonal Complements, Bessel's Inequality, Adjoint of Linear Operator.	ARC	
		Unit I	<b>Group Theory :</b> External Direct Product and its Properties , Internal Direct Product.	RPC	Sept - Oct
		Unit II	<b>Linear Algebra :</b> Bilinear & Quadratic Forms, Diagonalisation of Symmetric Matrices,	ARC	

	E		Second Derivative Test, Hessian Matrix, Index and Signature.			
		Unit I	<b>Group Theory :</b> Converse of Lagrange's Theorem for Finite Abelian Group, Cauchy's Theorem for Finite Abelian Group , Fundamental Theorem of Finite abelian groups	RPC	Nov - Dec	
		Unit II	<b>Linear Algebra :</b> Dual Space and Dual Basis, Double Dual, Transpose of a Linear transformation and its matrices in the dual basis, annihilators, Eigen Spaces of a Linear Operator, Diagonalizability, Cayley Hamilton Theorem, Minimal Polynomial, Canonical Forms.	ARC		
F I F T H  S E M E S T E R	D I S C I P L I N E  S P E C I F I C  E L E C T I V E  A	A D V A N C E D  A L G E B R A	Unit I	<b>Group Theory :</b> Group Actions , Cayley's Theorem, Index Theorem	SD	Aug
			Unit I	<b>Group Theory :</b> Group acting on themselves by Conjugation, Class Equation and consequences, Cauchy's Theorem, Simplicity of $A_n$ for $n \geq 5$ , non simplicity test.	SD	Sept - Oct
			Unit II	<b>Ring Theory :</b> Principle Ideal Domain, Principle Ideal Ring, Prime Element, irreducible element, Euclidean Domain.	SD	
			Unit II	<b>Ring Theory :</b> Polynomial Rings , Division Algorithm, Factorization Domain, Irreducible and prime elements in a UFD. Eisenstein Criterion and Unique Factorization in $Z[x]$ . Ring embedding and quotient field, regular ring, ideals in regular ring.	SD	Nov - Dec







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Academic Plan For Odd Semester 2022

Subject: Mathematics General

Year/ Sem	Paper/ Course	Module / Unit	Topic	Name of the teacher	Month
F I R S T  S E M E S T E R	C O R E  C O U R S E  O N E	UNIT I	<b>Algebra – I</b> : Complex Numbers – De Moivers’ Theorem and its application, Exponential, Sine, Cosine & logarithm of Complex Number	NM	Sept
		UNIT II	<b>Differential Calculus - I</b> : Rational number and its geometrical representation , Irrational Number, Concept of Real line & basic properties of Real Number.	MBS	
		UNIT III	<b>Differential Equation - I</b> : Order , Degree and Formation of ODE.	MBS	
		UNIT IV	<b>Coordinate Geometry</b> : Transformations of Rectangular Axes	NM	
		UNIT I	<b>Algebra – I</b> : 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.	NM	Oct - Nov

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		UNIT II	<b>Differential Calculus - I:</b> 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	MBS	
		UNIT III	<b>Differential Equation - I:</b> First order equations – Exact Equation, Euler’s and Bernoulli’s Equation, Clairaut’s Equation, General & Singular Solution. Second Order Linear Equation with Constant Coefficients.	MBS	
		UNIT IV	<b>Coordinate Geometry:</b> 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	<b>Algebra – I :</b> 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.	NM	Dec
		UNIT II	<b>Differential Calculus - I:</b> 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.	MBS	
		UNIT III	<b>Differential Equation - I:</b> Second Order Differential Equation – Method of variation of parameters, Method of undetermined coefficients.	MBS	
		UNIT IV	<b>Coordinate Geometry:</b> 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	
<b>Internal Assessment</b>					

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In January						
Tutorial Examination						
In January						
Semester End Examination						
In January						
T H I R D  S E M E S T E R	C O R E  C O U R S E  T H R E E	UNIT I	<b>Integral Calculus :</b> Evaluation of Definite Integrals . Integration as the limit of a sum.	MBS	Aug	
		UNIT II	<b>Numerical Methods :</b> Approximate Numbers , Significant Figures , Rounding of Numbers. Error : Absolute , Relative and Percentage. Operators : $\Delta$ , $\nabla$ & $E$ .	NM		
		UNIT III	<b>Linear Programming :</b> 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.	NM		
		UNIT I	<b>Integral Calculus :</b> Reduction Formula , Improper Integrals and Beta & Gamma Functions.	MBS	Sept - Oct	
		UNIT II	<b>Numerical Methods :</b> Interpolation	NM		
		UNIT III	<b>Linear Programming :</b> Solution by Graphical Method , Simplex Method & Simplex Algorithm , Duality.	NM		
		UNIT I	<b>Integral Calculus :</b> Double Integral , Rectification , Quadrature, Volume and Surface Areas.	MBS	Nov - Dec	
		UNIT II	<b>Numerical Methods :</b> Numerical Integration & Solution of Numerical Equation.	NM		
		UNIT III	<b>Linear Programming :</b> Transportation & Assignment Problem.	NM		
T H I R D  S E M E S T E R	S K I L L  S E N A	C P R O G R A M	Unit I	<b>Fundamentals of Computer :</b> An overview of theoretical computers, history of computers, overview of architecture of computer, compiler, assembler, machine language, high level language, object oriented language,	ARC	Aug

M E S T E R	H A N C E M E N T C O U R S E A	M I N G L A N G U A G E		programming language and importance of C programming.  <b>Introduction to C Programming :</b> Character Set, Constants & Variables data type, Expressions, Assignment Statements, Declaration.		
			Unit I	<b>Introduction to C Programming :</b> Arithmetic Operators, Relational Operators, Logical Operators. Decision making with if statement, if-else statement, Nesting if else statement, switch statement, break and continue statement.  <b>Control Statement:</b> while statement, do while statement, for statement.	ARC	Sept - Oct
			Unit II	<b>Introduction to C Programming :</b> <b>Arrays :</b> one dimension, two dimension and multidimensional arrays, declaration of arrays, initialization of one and multidimensional arrays.  <b>User defined Functions :</b> 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.  <b>Introduction to Library Functions :</b> stdio.h, math.h, string.h, stdlib.h, time.h etc.	ARC	Nov - Dec
<b>Internal Assessment</b> <b>In January</b>						
<b>Tutorial Examination</b> <b>In January</b>						
<b>Semester End Examination</b> <b>In January</b>						
F I F T H	D S E A		<b>Particle Dynamics :</b> Velocity & Acceleration of a Particle.	NM	Aug	
			<b>Particle Dynamics :</b> Concept of Force.	NM	Sept - Oct	

S E M E S T E R		Motion of a particle in a straight line under Constant forces, variable forces. Equation of Energy, Conservative Forces.		
		<b>Particle Dynamics :</b> Motion in two dimensions. Central Orbit. Kepler's Laws of Motion. Motion Under Inverse Square Law.	NM	Nov - Dec
OR				
D S E A		<b>Graph Theory :</b> Definitions and examples of Graph. Pseudographs, Complete Graph, Bipartite Graph and Isomorphism of Graphs.	RH	Aug
		<b>Graph Theory :</b> Paths and Circuits, Euler Circuits, Hamiltonian cycles.	ARC	
		<b>Graph Theory :</b> Trees and their elementary properties	RH	Sept - Oct
		<b>Graph Theory :</b> Adjacent Matrix, Weighted Graph, Travelling Salesman Problem.	ARC	
		<b>Graph Theory :</b> Planar Graph. Kuratowski's Graphs	RH	Nov - Dec
		<b>Graph Theory :</b> Shortest Path, Dijkstra's algorithm, Floyd - Warshall algorithm	ARC	
<b>Internal Assessment In January</b>				
<b>Tutorial Examination In January</b>				
<b>Semester End Examination In January</b>				

  
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Academic Plan for Odd Sem 2022

Subject: Business Mathematics & Advanced Business Mathematics

Year / Sem	Paper/ Course	Chapter	Topic/Unit	Name of the teacher	Month
T H I R D  S E M E S T E R	B U S I N E S S  M A T H E M A T I C S	II	<b>Set Theory</b> : Definition, Presentation of Sets, different types of sets, set operation, Law of algebraic sets. Different problems on set theory.	ARC	Aug
		V	<b>Compound Interest and Annuities</b> : Simple AP and GP Series, Different types of interest rates.	MBS	
		IV	<b>Logarithm</b> : Definition, Base and index of logarithm, General Properties of Logarithm. Problems on Logarithm.	ARC	Sept - Oct
		III	<b>Binomial Theorem</b> : Statement of the theorem, General term, Middle term.		
		V	<b>Compound Interest and Annuities</b> : Net Present Value, Types of Annuities, Continuous compounding. Valuation of simple loans and debentures, problems relating to Sinking Funds.	MBS	
		I	<b>Permutation</b> : Definition, Factorial Notation, Theorem on permutation, Permutations with repetitions, Restricted Permutation.		
		III	<b>Binomial Theorem</b> : Simple Properties of binomial coefficients. Problems on Binomial Theorem.	ARC	Nov - Dec

  
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		I	<b>Combination</b> : Definition, Theorems on Combination, Basic Identities, Restricted Combination.	MBS	
<b>I N T E R N A L E V A L U A T I O N</b>					
3 <sup>rd</sup> week of November					
<b>S E M E S T E R E N D E X A M I N A T I O N</b>					
<b>I N D E C E M B E R</b>					
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	<b>Functions</b> : 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
		I	<b>Limit and Continuity</b> : Elementary ideas of limit and continuity through the use of simple algebraic functions.	NM	
		V	<b>Matrix</b> : Definition of matrix ; types of matrices; operations on matrices.	NM	
		II	<b>Differentiation</b> : Derivative and its meaning; rules of differentiation; geometrical interpretation; significance of derivative; significance of derivative as rate of measure; second and higher order derivatives. 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.	NM	Sept - Oct
		II	<b>Integration</b> : 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.	NM	
		V	<b>Matrix</b> : Adjoint of a matrix; inverse of a matrix; solutions of a system of linear equations by matrix inversion method.	NM	

	IV	<b>Determinants</b> : Determinants of a square matrix upto 3 <sup>rd</sup> order.	NM	
	III	<b>Application of Derivative and Integration:</b> 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	<b>Integration</b> : 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.	NM	
	IV	<b>Determinants</b> : Elementary properties of determinants; minors and co-factors; adjoint of a determinants; Cramer's rule.	NM	
<b>I N T E R N A L E V A L U A T I O N</b> 3 <sup>rd</sup> week of November				
<b>S E M E S T E R E N D E X A M I N A T I O N</b> <b>I N D E C E M B E R</b>				

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Academic Plan Even Sem 2023

Mathematics Honours

Year / SEM	Paper/ Course	Module / Unit	Topic/Unit	Name of the teacher	Month
S E C O N D  S E M E S T E R	C O R S E  C O U R S E  T H E R E	Unit I	<p><b>Real Analysis – I</b></p> <p><b>Real number</b> :Idea of Real Numbers , Countable and Uncountable Sets, Bounded and Unbounded Sets in <math>\mathbb{R}</math>, Supremum and Infimum of a set and their properties. Order completeness axiom, Archimedean Property of <math>\mathbb{R}</math>. Density of rational and irrational numbers in <math>\mathbb{R}</math>. 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. 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 <math>\mathbb{R}</math> is both open and closed. Dense set in <math>\mathbb{R}</math> as a having non-empty intersection with every open intervals. <math>\mathbb{Q}</math> and <math>\mathbb{R}-\mathbb{Q}</math> are dense in <math>\mathbb{R}</math>.</p>	NM	Feb

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		<p>Unit II</p> <p><b>Real Analysis – II</b></p> <p><b>Real Sequence :</b>  Basic idea of Real Sequence , Bounded Sequence, Convergence and non-convergence, examples, Boundedness of Convergent Sequence. Uniqueness of limit. Algebra of limits.  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 :</p> $\left\{ \frac{1}{n^n} \right\}_n, \{x^n\}_n, \left\{ x^n \right\}_n, \{x_n\}_n \text{ with}$ $\frac{x_{n+1}}{x_n} \rightarrow l \text{ and }  l  < 1, \left\{ \left(1 + \frac{1}{n}\right)^n \right\}_n,$ $\left\{ 1 + \frac{1}{1!} + \frac{1}{2!} + \dots + \frac{1}{n!} \right\}_n, \{a^{x_n}\}_n (a > 0).$ <p>Cauchy's first and second limit theorems. Subsequence. Subsequential limits, <math>\limsup</math> as the LUB and <math>\liminf</math> as the GLB of a set containing all the subsequential limits. Alternative definition of <math>\limsup</math> and <math>\liminf</math> of a sequence. A bounded sequence <math>\{x_n\}</math> is convergent iff <math>\limsup x_n = \liminf x_n</math>. Every sequence has a monotone subsequence. Bolzano-Weirstrass Theorem for sequence. Cauchy's Convergence Criterion. Cauchy Sequence.</p>	TG	March - April
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		Unit III	<b>Real Analysis – III</b>  <b>Infinite Series</b> :Definition, Convergence and Non-convergence of Infinite series, Cauchy Criterion. 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). Alternating series . Tests for Convergence of alternating series : Leibnitz Test. Absolute and Conditional Convergence.	ARC	May
S E C O N D  S E M E S T E R	C O R E  C O U R S E  F O U R	Unit I	<b>Abstract Algebra – I</b>  <b>Concept of Group</b> :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.  <b>Subgroups</b> :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.	MBS	Feb
		Unit II	<b>Abstract Algebra – II</b>  <b>Cyclic Groups</b> :Definition & Properties of Cyclic Groups, Classification of Subgroups of Cyclic Groups. <b>Symmetric &amp; Alternating Group</b> :Cycle Notation for Permutations, even and odd Permutation, Idea of Symmetric Group and Alternating Group. <b>Coset</b> : Definition and Properties of Cosets, Lagrange’s Theorem, Fermat’s Little Theorem.	MBS	March - April

		Unit III	<b>Abstract Algebra – III</b>  <b>Normal Subgroup &amp; Quotient</b> <b>Group:</b> Definition of Normal Subgroup & its Properties. Examples of Normal Subgroup, Concept of Quotient Group. Examples of Quotient Group. <b>Group Homomorphisms:</b> 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.	MBS	May
<b>Internal Assessment</b> <b>End of June</b>					
<b>Tutorial Examination</b> <b>1<sup>st</sup> week of July</b>					
<b>Semester End Examination</b> <b>End of July</b>					
F O R T H  S E M E S T E R	C O R S E  E I G H T	Unit I	<b>Riemann Integration :</b> 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.	TG	March
		Unit II	<b>Improper Integral :</b> Range of Integration , finite or infinite , Necessary and Sufficient condition for convergence of improper integral in both cases.	MBS	
		Unit III	<b>Sequence of Function :</b> 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	ARC	

			sequence of functions in case of uniform convergence.		
	Unit I	<b>Riemann Integration :</b> 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 $\int_1^x \frac{dt}{t}, x > 0$	TG	April	
	Unit II	<b>Improper Integral :</b> 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	<b>Series of Functions :</b> 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. <b>Power Series :</b> Fundamental theorem of Power Series, Cauchy-Hadamard theorem,	ARC		

			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	<b>Riemann Integration :</b> Fundamental theorem of Integral Calculus. First Mean Value Theorem of Integral Calculus.	TG	May
		Unit II	<b>Improper Integral :</b> 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	<b>Fourier Series :</b> 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.	ARC	
F O R T H  S E M E S T E R	C O R S E  C O U R S E  I N	Unit I	<b>Partial Differential Equation :</b> 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	March
		Unit II	<b>Multivariate Calculus - II:</b> <b>Multiple Integral :</b> Concept of upper sum, lower sum, upper integral, lower integral and double integral. Statement of existence theorem	MBS	

E		for continuous functions. Iterated or repeated integral, change of order of integration, triple integral.		
	Unit I	<b>Partial Differential Equation :</b> 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	April
	Unit II	<b>Multivariate Calculus - II:</b>  <b>Multiple Integral :</b> 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.  <b>Vector Calculus:</b> 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	
	Unit I	<b>Partial Differential Equation :</b> 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	<b>Multivariate Calculus - II:</b>  <b>Vector Calculus:</b>	MBS	

			Green's theorem, Surface integral, integrals over parametrical defined surfaces. Stoke's theorem, the Divergence theorem.		
F O R T H  S E M E S T E R	C O R E  C O U R S E  T E N	Unit I	<b>Statics :</b>  <b>Coplanar forces in general</b>	NM	March
		Unit II	<b>Statics :</b> Virtual Work	ARC	
		Unit III	<b>Mechanics :</b>  <b>Kinematics of a particle :</b> 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	<b>Rigid Dynamics :</b>  <b>The linear momentum Principle :</b> Linear Momentum, Linear Momentum Principle.	NM	
		Unit I	<b>Statics :</b>  <b>An arbitrary force System in space. Equilibrium in the presence of sliding Friction force.</b>	NM	
	Unit II	<b>Statics :</b> Stability of Equilibrium	ARC		
	Unit III	<b>Mechanics :</b>  <b>Newton's Laws of Motion and Law of Gravitation :</b> 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 <b>Problems in particle dynamics.</b> <b>Planar motion of a particle.</b>	NM		



		Unit V	<b>Rigid Dynamics :</b>  <b>The linear momentum Principle :</b> Motion of the Centre of Mass, Conservation of Linear Momentum.  <b>The angular momentum principle :</b> 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.  <b>The Energy Principle :</b> Configuration and degree of freedom of a multi-particle system, energy principle, energy conservation.	NM	
		Unit II	<b>Statics :</b>  Problems solving in Statics	ARC	May
		Unit III	<b>Mechanics :</b>  <b>Planar motion of a particle.</b>	NM	
		Unit V	<b>Rigid Dynamics :</b>  <b>The Energy Principle :</b> Rocket motion in free space and under gravity, Collision of elastic bodies. The two-body problem.	NM	
F O R T H  S E M E S T E R	S K I L L  E N H A N C E M	S A G E  M A T H  & R	Introduction to SageMath and R, Installation Procedure, Use of SageMath& R as a Calculator, Numerical and symbolic computations using Mathematical functions such as square root, trigonometric functions, logarithms, exponentiations etc. Graphical Representations of few functions through plotting in a given interval, Plots of functions with asymptotes, superimposing multiple graphs in one plot , polar plotting of curves.	MR	March

E N T  C O U R S E			SageMath & R commands for differentiation, higher order derivatives, plotting $f(x)$ & $f'(x)$ together, integrals, definite integrals etc. Introduction to Programming in Sage Math & R, relational and logical operators, conditional statements, loops and nested loops, without using inbuilt functions write programs for average of integers, mean, median, mode, factorial, checking primes etc.	MR	April
			Use of inbuilt functions that deal with matrices, determinant, inverse of a given real square matrix, solving a system of linear equations, finding roots of a given polynomial, solving differential equations.	MR	May
<b>Internal Assessment End of June</b>					
<b>Tutorial Examination 1<sup>st</sup> week of July</b>					
<b>Semester End Examination End of July</b>					
S I X T H  S E M E S T E R	C O U R S E  T H I R T E E N	Unit I	<b>Metric Space :</b> Definition and examples of metric spaces, Open ball, Open set, Closed set, Interior point, Limit point, Closure of set, Boundary point & boundary of a set, Bounded set, Diameter of a set & Distance between two sets, Subspace of a metric space.	SD	March
		Unit II	<b>Complex Analysis :</b> Stereographic projection, Regions in the complex plane, Limits, limits involving the points at infinity, continuity.	ARC	
		Unit I	<b>Metric Space :</b> Convergence sequence, Cauchy sequence, Completeness, Cantor's Intersection Theorem. Continuous mapping, uniform continuity, compactness, Heine-Borel Theorem in $\mathbb{R}$ , Finite Intersection Property, continuous functions on compact sets.	SD	April

		Unit II	<b>Complex Analysis :</b> Derivatives, differentiation formula, Cauchy-Riemann Equations, sufficient conditions for differentiability, Analytic Functions, Exponential Functions, Logarithmic Functions, Trigonometric and Hyperbolic Functions, Mobius Transformation. Power Series.	ARC	
		Unit I	<b>Metric Space :</b> Concept of connectedness and some examples of connected metric space, Contraction mapping, Banach fixed point Theorem.	SD	May
		Unit II	<b>Complex Analysis :</b> Contours, complex integration along a contour & its examples, upper bounds for moduli of contour integrals, Cauchy – Goursat Theorem, Cauchy Integral Formula.	ARC	
C O R E  C O U R S E  F O R T I N		Unit I	Real Numbers, Machine numbers – floating point and fixed point. Sources of Errors , Rounding of Numbers, Significant digits and error propagation in machine arithmetic operations. Numerical Algorithms – stability & convergence.	NM	March
		Unit II	Approximation		
		Unit IV	Transcendental and polynomial equation	MBS	
		Unit II	Interpolation.	NM	April
		Unit V	System of linear algebraic equation , Iterative Methods, Matrix Inversion , The algebraic eigen value problem.	MBS	
		Unit III	Numerical Differentiation , Numerical Integration .	NM	May
		Unit VI	Ordinary Differential Equation	MBS	

D I S C I P L I N E  S P E C I F I C  E L E C T I V E S  A(2)	F L U I D  S T A T I C S  &  D Y N A M I C S	Unit I	Introduction and Fundamental Concept	MR	March
		Unit III	Kinematics of Fluid	RH	
		Unit II	Hydrostatics	MR	April
		Unit IV	Conservation Equations : Control Mass System, Control Volume System, Isolated System.	RH	
		Unit II	Gas	MR	May
		Unit IV	Conservation of Mass. Conservation of Momentum.	RH	
D S E B (2)	P O I N T  S E T  T O P O L	Unit 1	Topological Spaces, Basis, Neighbourhood, Interior Point, Limit Point, Derived Set, Boundary of a Set , Closed Set, Closure & Interior of a Set, Dense Subset, Subspace Topology, Finite Product Topology, Continuous Functions, Open Maps, Closed Maps , Homeomorphisms, Topological Invariants, metric topology, isometry and metric invariants.	SD	March

	O G Y	Unit 2	First Countability, $T_1$ and $T_2$ separation axioms of topological spaces, convergence and cluster point of a sequence in topological spaces and some related concepts on first countable as well as on $T_2$ spaces. Heine's continuity criterion.	SD	April
		Unit 3	Connectedness and compactness.	SD	May
D S E  B (2)	A D V A N C E D	Unit 1	Degrees of Freedom, Reactions due to constraints. D'Alembert's Principle; Lagrange's first kind equations, generalized forces.	NM	March
		Unit 3	Hamilton's equations from variational principle, Poincare – Cartan integral invariant	MR	
	M E C H A N I C S	Unit 1	Lagrangian, Second kind Lagrange's equations of motion, cyclic coordinates, velocity dependent potential, Principle of energy, Rayleigh's dissipation function.	NM	April
		Unit 2	Action Integral, Hamilton's Principle, Lagrange's Equations by variational methods, Hamilton's principle for non-holonomic system, Symmetry Properties & conservation Laws.		
		Unit 3	Principle of stationary action, Fermat's Principle	MR	
		Unit 4	Canonical Transformation; Generating Function; Poisson Bracket; Equation of Motion		
		Unit 2	Noether's theorem. Canonically conjugate coordinates and momenta. Legendre transformation, Routhian approach; Hamiltonian	NM	
	Unit 4	Action – angle variables; Hamilton's Jacobi's Equation; Hamilton's Principal Function; Hamilton's Characteristics Function; Liouville's Theorem.	MR		
<b>Internal Assessment</b>					
<b>End of June</b>					
<b>Tutorial Examination</b>					

**1<sup>st</sup> week of July**

**Semester End Examination  
End of July**

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Department of Mathematics

Academic Plan Even Sem 2023

Mathematics General

Year/ Sem	Paper/ Course	Module / Unit	Topic	Name of the teacher	Month
S E C O N D  S E M E S T E R	C O R E  C O U R S E  T W O	UNIT I	<b>Differential Calculus II</b> :Sequence of real numbers	ARC	March
		UNIT II	<b>Differential Equation –II</b> : Linear Homogeneous Equation with Constant Coefficients, Linear non-homogeneous equations, The method of variation of parameter.	TG	
		UNIT III	<b>Vector Algebra</b> : Addition of Vectors , Multiplication of a vector by a scalar.	TG	
		UNIT IV	<b>Discrete Mathematics</b> : Integers	MBS	
		UNIT I	<b>Differential Calculus II</b> : Infinite Series of Constant Terms	ARC	April
		UNIT II	<b>Differential Equation –II</b> : The Cauchy Euler equation, Simultaneous Differential Equations, Simple eigen value problem.	TG	
		UNIT III	<b>Vector Algebra</b> : Collinear and Coplanar Vectors, Scalar and Vector Products	TG	
		UNIT IV	<b>Discrete Mathematics</b> : Congruences	MBS	
		UNIT I	<b>Differential Calculus II</b> : Real Valued Functions defined on an interval (Rolle's Theorem, Mean Value Theorem, Taylor's and Maclaurins Theorem)	ARC	May


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			,Indeterminate Forms, Problems on Maxima and Minima of functions.		
		UNIT II	<b>Differential Equation –II :</b> Partial Differential Equation	TG	
		UNIT III	<b>Vector Algebra :</b> Vector Equation of Plane and Straight line, Volume of Tetrahedron, Applications to problems of Mechanics (Work Done and Mechanics)	TG	
		UNIT IV	<b>Discrete Mathematics :</b> Application of Congruences , Congruence Class, Boolean Algebra	MBS	
<b>Internal Assessment In June</b>					
<b>Tutorial Examination In July</b>					
<b>Semester End Examination In July</b>					
F O R T H  S E M E S T E R	C O R E  C O U R S E  F O U R	UNIT I	<b>Algebra - II :</b> Group Theory , Ring , Field .	TG	March
		UNIT II	<b>Computer Science &amp; Programming :</b> Fundamentals of Computer Science	TG	
		UNIT III	<b>Probability &amp; Statistics :</b> 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 classical definition. Axiomatic approach problems.	TG	
		UNIT I	<b>Algebra - II :</b> Vector Space.	TG	April
		UNIT II	<b>Computer Science &amp; Programming :</b> Number System , Algorithm & Flow Chart.	TG	
		UNIT III	<b>Probability &amp; Statistics :</b> 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.	TG	



		UNIT I	<b>Algebra - II :</b> Real Quadratic Form. Eigen Value , Eigen Vectors and Cayley Hamilton Theorem.	TG	May	
		UNIT II	<b>Computer Science &amp; Programming :</b> Simple Programs in Fortran 77/90	TG		
		UNIT III	<b>Probability &amp; Statistics :</b> Statistical Method , Sampling Theory , Bivariate Frequency Distribution, Scatter Diagram, Co-relation Coefficient, Regression Lines.	TG		
<b>Internal Assessment In June</b>						
<b>Tutorial Examination In July</b>						
<b>Semester End Examination In July</b>						
S E M E S T E R  S I X	D S E B	A D V A N C E D  C A L C U L U S	Unit I	Uniform Convergence of Sequence of Functions and Series of Functions	ARC	March
			Unit II	Power Series , Fourier Series	ARC	April
			Unit III	Laplace Transform	ARC	May
<b>Internal Assessment In June</b>						
<b>Tutorial Examination In July</b>						
<b>Semester End Examination In July</b>						

  
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**Academic Plan**  
**Department of Sociology**  
**Session: 2022-23**

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

<b>Group-A</b>	<b>1.Sociology: Discipline and Perspective</b>		<b>Time</b>
	1.1	Nature and Scope of Sociology.	19 <sup>th</sup> Sep to 30 Sep
	1.2	Sociology as a science.	
	1.3	Sociology and Common Sense	
<b>Group-B</b>	<b>2.Sociology and Other Social Sciences</b>		<b>Time</b>
	2.1	Sociology and Social Anthropology	Nov
	2.2	Sociology & Psychology	
	2.3	Sociology & History	
<b>Group-C</b>	<b>3.Basic Concepts</b>		<b>Time</b>
	3.1	Individual and Group	Nov to Dec
	3.2	Association and Institutions	
	3.3	Culture and Society	
	3.4	Social Change	

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

<b>Group-A</b>	<b>1.Emergence of Sociology as a new discipline: A brief account</b>		<b>Time</b> Aug
<b>Group-B</b>	<b>2.Karl Marx</b>		<b>Time</b>
	2.1	Materialist Conception of History	Sept
	2.2	Class and Class Struggle	
<b>Group-C</b>	<b>3.Emile Durkheim</b>		<b>Time</b>
	3.1	Social Fact	Nov

	3.2	Forms of Solidarity	
<b>Group-D</b>	<b>4.Max Weber</b>		<b>Time</b>
	4.1	Ideal Types and Social Action	Dec
	4.2	Types of Authority	

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

<b>Group-A</b>	<b>1.Research Design</b>		<b>Time</b>
	1.1	Formulation of research problem	Aug
	1.2	Framing research questions	
<b>Group-B</b>	<b>2.Data Collection</b>		<b>Time</b>
	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	
<b>Group-C</b>	<b>3.Data Analysis</b>		<b>Time</b>
	3.1	Data Recording, Coding, Processing and interpretation	Nov
	3.2	Content analysis	
	3.3	Case Study Method	
<b>Group-D</b>	<b>4.Project Report Writing</b>		<b>Time</b>
	4.1	Writing social research report; some basic considerations	Dec
	4.2	Organization of the report	
	4.3	Reference & Bibliography	

**B.A. 3<sup>rd</sup> Year General Course  
Semester-5, Paper: DSE-A (2)  
(Family, Marriage & Kinship)**

<b>Group-A</b>	<b>1. Introduction to Family, Marriage and Kinship</b>		<b>Time</b>
	1.1	Different forms of family and Marriage	Aug
	1.2	Biological, Social & cultural Kinship	
<b>Group-B</b>	<b>2. Family &amp; Household</b>		<b>Time</b>
	2.1	Structure & Change; Alternatives & Emergent forms of family; Divorce and Separation	Sept
	2.2	Reimagining families: Unconventional family	

		relationships; families of choice	
<b>Group-C</b>	<b>3. Marriage &amp; Kinship</b>		<b>Time</b>
	3.1	Marriage, Alliance, Descent & Prestations	Nov
<b>Group-D</b>	<b>4. Contemporary Issues in Family, Marriage &amp; Kinship</b>		<b>Time</b>
	4.1	Cultural codes in choice & regulation of marriage	15 <sup>th</sup>
	4.2	Power & discrimination in the family; Gender gap	Nov-
	4.3	New Reproductive Techniques: Assisted Reproductive Technology, Donor insemination, Surrogacy	Dec

**B.A. 3<sup>rd</sup> Year General Course  
Semester-5, Paper: SEC-A-(1)  
(Techniques of Social Research)**

<b>Group-A</b>	<b>1. Research Design</b>		<b>Time</b>
	1.1	Formulation of research problem	Aug
	1.2	Framing research questions	
<b>Group-B</b>	<b>2. Data Collection</b>		<b>Time</b>
	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	
<b>Group-C</b>	<b>3. Data Analysis</b>		<b>Time</b>
	3.1	Data Recording, Coding, Processing and interpretation	Nov
	3.2	Content analysis	
	3.3	Case Study Method	
<b>Group-D</b>	<b>4. Project Report Writing</b>		<b>Time</b>
	4.1	Writing social research report; some basic considerations	Nov to Dec
	4.2	Organization of the report	
	4.3	Reference & Bibliography	

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

<b>Group-A</b>	<b>1. India as a Plural Society</b>		<b>Time</b>
	1.1	Unity and Diversity	Up to 15 <sup>th</sup> Jan



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	1.2	Problems of National Unity		
<b>Group-B</b>	<b>2.Social Institutions and Practices</b>			<b>Time</b>
	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		
		2.4.1	Self-sufficient village community	
2.5	Family and Kinship			
	2.5.1	Types of family		
	2.5.2	Kinship in India		
<b>Group-C</b>	<b>3.Identities and Change</b>			<b>Time</b>
	3.1	Dalits' Movement		April
	3.2	Women's Movement		
<b>Group-D</b>	<b>4.Challenges to State and Society</b>			<b>Time</b>
	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. 2<sup>nd</sup> Year General Course  
Semester-4, Paper: CC/GE-4  
(Methods of Sociological Enquiry)**

<b>Group-A</b>	<b>1.The Logic of Social Research</b>		<b>Time</b>
	1.1	Concept; Variables; Propositions	
	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	
			Jan to Feb

<b>Group-B</b>	<b>2.Methodological Perspectives</b>		<b>Time</b>
	2.1	The Positivist Method	Feb to March
	2.2	The Interpretative Method	
	2.3	The Comparative Method	
	2.4	The Ethnographic Method	
<b>Group-C</b>	<b>3.Modes of Enquiry</b>		<b>Time</b>
	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	

**B.A. 2<sup>nd</sup> Year General Course  
Semester-4, Paper: SEC-B-(1)  
(Theory and Practice of Development)**

<b>Group-A</b>	<b>1. What is development?</b>	Jan
<b>Group-B</b>	<b>2. Recent trends in Development and Post development</b>	<b>Time</b>
	2.1 Social development indicators	Jan to Feb
	2.2 Sustainable development	
	2.3 Growth-Development Debate	
	2.4 Private-Public Partnership-PPP	
<b>Group-C</b>	<b>3. Social Services &amp; development</b>	<b>Time</b>
	3.1 Concept of Social service	Feb to March
	3.2 Social services for socialization and development	
	3.3 Participatory development: Gender and Development GAD; Civil society & Grassroots initiatives: SHG; NGO	
	3.4 Corporate Social Responsibility-CSR	
<b>Group-D</b>	<b>4. Human Development: Growth vs. Development</b>	<b>Time</b>
	4.1 Development with dignity	April to June
	4.2 Decentralization of development: Panchayat & Municipality	
	4.3 MGNREGA	
	4.4 Digital India	

**B.A. 3<sup>rd</sup> Year General Course  
Semester-6, Paper: DSE-B-(1)**

**(Social Stratification)**

<b>Group-A</b>	<b>1. Social Stratification: Concepts and Approaches</b>		<b>Time</b>
	1.1	Concepts	July-Aug
	1.2	Approaches-Marx and Weber	
<b>Group-B</b>	<b>2. Forms of Social Stratification</b>		<b>Time</b>
	2.1	Race and Ethnicity	Sept, Nov
	2.2	Caste and Class	
	2.3	Gender	
	2.4	Poverty and Social Exclusion	
<b>Group-C</b>	<b>3. Social Mobility</b>		<b>Time</b>
	3.1	Concepts	Nov-Dec
	3.2	Factors	
	3.3	Types	

**B.A. 3<sup>rd</sup> Year General Course  
Semester-6, Paper: SEC-B-(2)  
(Application of Statistics for Sociology)**

<b>Group-A</b>	<b>1. Basic Concepts:</b> Statistics, population, parameter, statistics, sample, variable	July
<b>Group-B</b>	<b>2. Definition of Social Statistics and use of statistics in Social Research</b>	Aug
<b>Group-C</b>	<b>3. Frequency Distribution</b>	Sept
	<b>4. Graphical presentation of Data</b>	
<b>Group-D</b>	<b>5. Sampling-</b> Types and Use	Nov
	<b>6. Coding and Tabulation</b>	
<b>Group-E</b>	<b>7. Central Tendency-</b> Mean, Median, Mode	Dec



Academic Plan 2022-23

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	Sept



		<p>Frequency Distribution, Cumulative Distribution and their graphical representation, Histogram .</p> <p>Frequency Polygon, Frequency curve and Ogive</p>	AA	Sept
		Unit II		
		<p>Measures of Central Tendency: mathematical and positional. Measures of Dispersion: range, quartile deviation, mean deviation, standard deviation</p>	AA	Nov
		<p>coefficient of variation, moments, skewness and kurtosis.</p>	AA	Nov

		Unit III		
		Bivariate data: Definition, scatter diagram, simple, partial and multiple correlation (3 variables only), rank correlation (Spearman ).	AA	Nov
		Simple linear regression, principle of least squares and fitting of polynomials and exponential curves.	AA	Dec
		Internal Test		Dec
		Final University Exam		Jan

Subject: Statistics(General)

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

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

		<p>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 &amp; Type II errors, level of significance, concept of p-value. Tests of proportions.</p>	AA	Sept
		<p>Tests of hypotheses for the parameters of a normal distribution(one sample and two sample problems). Sign test</p>	AA	Nov
		Unit III		

		Analysis of variance, one-way and two-way classification.	AA	Nov
		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	Dec
		Internal Test		Dec
		Final University Exam		Jan

Subject: Statistics(General)

## Semester-V (DSE- A-1): Econometrics

Semester V	Name of the paper	Topic/Unit	Name of the teacher	Month
	Economet ics	Unit-1		
		Introduction: Objective behind building econometric models, nature of econometrics , model building, role of econometrics , structural and reduced forms. Estimation under linear restrictions. Dummy variables,	AA	Aug

		Qualitative data.		
		Unit-II		
		Multicollinearity: Introduction and concepts, detection of multicollinearity, consequences and solutions of multicollinearity.	AA	Sept
		Unit-III		
		Autocorrelation: Concept, consequences of autocorrelated disturbances, detection and	AA	Nov

		<p>solution of autocorrelation.</p> <p>Generalized least squares estimation.</p>		
		Unit-IV		
		<p>Heteroscedastic disturbances: Concepts and efficiency of Aitken estimator with OLS estimator under heteroscedasticity. Consequences of heteroscedasticity. Tests and solutions of heteroscedasticity.</p>	AA	Dec



		<p>ticity. Errors in variables: Correlation between error and regressors. Instrumental variable method (Single-equation model with one explanatory variable)</p>		
		Internal Test		Dec
		Final University Exam		Jan

Academic Plan 2022-23

Subject: Statistics(General)

Semester-II: Elementary Probability Theory

Semester II	Name of the paper	Topic/Unit	Name of the teacher	Month
	Elementary Probability Theory	Unit-1		
		Probability	AA	March
		Unit-2		
		Random Variables	AA	April
		Unit-3		

		Standard Probability Distributions		May
		Internal Test		June
		Final University Examination		July

#### Semester-IV: Application of Statistics

Semester IV	Name of the paper	Topic/Unit	Name of the teacher	Month
	Application of Statistics	Unit-II		
		Index Number	AA	March
		Economic Time Series	AA	April

		Unit-III		
		Demographic Methods	AA	April
		Unit-I		
		Sampling Method		May
		Internal Test		June
		Final University Examination		July

Semester-VI:

Project Work : Analysing Social Change in Historical Perspective

Under the faculty Mr. Asgar Ali from March to June