TARA DEVI HARAKH CHAND KANKARIA
JAIN COLLEGE
Affiliated to University of Calcutta & Accredited by NAAC (2016)
[Recognized under section 2(f) of UGC Act 1956]
(A self-financed Govt. approved Minority Institution run under the auspices of Shree S.S. Jain Sabha)
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1.3.2. Average percentage of courses that include experiential learning through project work/field work/internship during last five years (10)

Sr. No.	Program name	Name of the Course that include experiential learning through project work/field work/internship	Course code	Number of students studying the courses that include experiential learning through project work/field work/internship	Actual number of students (without repeat of same student)
1	B.Sc. (Hons.) in Botany	Reproductive Biology of Angiosperm	BOT-A-CC3-6-P	5*	5
2		Plant Systematics	BOT-A-CC3-7-P	5*	
3		Economic Botany	BOT-A-CC4-9-P	5*	
4	B.Sc. (Hons.) in Computer Science	Project Work	CMS-A-CC-6-14-P	12	12
5	B.Sc. (Hons.) in Geography	Research methodology and Field work Lab	GEO-A-CC-5-11-P	18*	18
6		Hazard Management	GEO-A-CC-6-14P	18*	
7	B.Sc. (Hons.) in Zoology	Animal behavior and Chronobiology Lab. Topic: Study of Circadian Rhythms in humans	ZOOA-DSE(B)-6-1-P	15*	15
8		Animal Cloning and Application and Its Ethical issues	ZOOA-DSE(A)-6-2-P	15*	
9		Animal behavior and Chronobiology Lab	ZOOA-DSE(B)-6-1-P	15*	
10		Visit To National Park	ZOOA-CC5-11-P	15*	
11		Research Project (Sem 6)	BBAA604DSE1/2/3	56	56

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12	BBA (Hons.)	Internship (Sem 4)	BBAA405SE2	20	20
13		Internship (Sem 2/4/6)-CCF 2022	BBAA606SI	40	40
14	B.Sc. (Hons.) in Microbiology	Industrial Microbiology	MCB-A-CC-5-12-TH	49	49
15	B.Sc. (Hons.) in Food & Nutrition	Internship on Diet Counselling	FNTA-DSEA3	18	18
16	B. Com (Hons.)	Internship (Sem 2)	---	144	144
17		Project Work	CC6.1 Ch	544	544

*** Same students did multiple Project/field work (counted once).** **Total = 921**

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Screen shots of Courses (from the curriculum) that include experiential learning through project work/field work/internship:

- **Department of Botany:**

1. **BOT-A-CC3-6-P**

EMBRYOLOGY

1. **Pre-fertilisation changes :**

1.1. Microsporogenesis and Microgametogenesis, 1.2. Megasporogenesis and Megagametogenesis (monosporic, bisporic and tetrasporic).

.....6 lectures

2. **Fertilisation:**

2.1. Pollen germination, 2.2. Pollen tube- growth, entry into ovule and discharge, 2.3. Double fertilization.

.....6 lectures

3. **Post-fertilization changes :**

3.1. Embryogenesis in Capsella, 3.2. Development of Endosperm (3 types).

.....10 lectures

4. **Apomixis & Polyembryony:**

4.1. Apomixis- Apospory and Apogamy, 4.2.Polyembryony- different types.

.....8 lectures

PRACTICAL- REPRODUCTIVE BIOLOGY OF ANGIOSPERMS (BOT-A-CC-3-6-P)
(Credits 2)

1. Identification with reasons (Morphology)
2. Classroom performance: (Lab records)
3. Field Records (Field note book/ project work)
4. Viva

REPRODUCTIVE BIOLOGY OF ANGIOSPERMS

1. Inflorescence types- study from fresh/ preserved specimens
2. Flowers- study of different types from fresh/ preserved specimens
3. Fruits- study from different types from fresh/preserved specimens
4. Study of ovules (permanent slides/ specimens/photographs)- types (anatropous, orthotropous, amphitropous and campylotropous)
5. Field study desirable
6. A project supported along with photographs taken during field study to be submitted giving comprehensive idea about different types of inflorescence, flowers and fruits.

CLASSROOM PERFORMANCE

Same as above.

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2. BOT-A-CC3-7-P

PRACTICAL- PLANT SYSTEMATICS (BOT-A-CC-3-7-P)
(Credits 2)

1.Workout on Angiosperms

2. Spot Identification

3.Classroom performance: (Lab records)

4. Field Records (Field note book, Herbarium specimens)

5. Viva

ANGIOSPERMS

1. Work out, description, preparation of floral formula and floral diagram, identification up to genus with the help of suitable literature of wild plants and systematic position according to Benthum Hooker system of classification from the following families: Malvaceae, Fabaceae (Papilionaceae), Solanaceae, Scrophulariaceae, Acanthaceae, Labiatae (Lamiaceae), Rubiaceae.

2. Spot identification (Binomial, Family) of common wild plants from families included in the theoretical syllabus (list to be provided).

FIELD WORK

At least three excursions including one excursion to Acharya Jagadish Chandra Bose Indian Botanic Garden (Shibpur, Howrah) and Central National Herbarium (CNH).

FIELD RECORDS

1. Field Note Book (authenticated) with field notes on the plants of the area of excursion and

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3. BOT-A-CC4-9-P

3. PRACTICAL- ECONOMIC BOTANY (BOT-A-CC-4-9-P)
(Credits 2)

1. Workout, micro-chemical tests
2. Identification- T.S./L.S. of permanent slides
3. Classroom performance: (Lab records, permanent slides)
4. Field visit desirable to give an idea about cultivation of any crop (viz. rice, jute, mustard, tea, potato)
5. Field record of the visit, properly authenticated by escorting teacher

ECONOMIC BOTANY

1. Cereals: Wheat (habit sketch, L.S./T.S. of grain, starch grains, micro-chemical tests); rice (habit sketch, study of paddy and grain, starch grains, micro-chemical tests)
2. Legume: Soybean, ground nut (habit, fruit, seed structure, micro-chemical tests)
3. Source of sugars and starches: Sugarcane (habit sketch; cane juice- micro-chemical tests); potato (habit sketch, tuber morphology, T.S. of tuber to show localization of starch grains, W.M. of starch grains, micro-chemical tests.
4. Tea- tea leaves, tests for tannin
5. Mustard- plant specimen, seeds, tests for fat in crushed seeds
6. Habit sketch of *Digitalis*, *Papaver* and *Cannabis*.
7. Sal, Teak- section of young stem.
8. Jute- specimen, transverse section of stem, tests for lignin on T.S. of stem and study of fibre following maceration technique.

➢ Department of Computer Science:

4. CMS-A-CC-6-14-P -Project Work:

Semester - VI				
Course	Type	Course Code	Course Name	Credit
Core Course -13	Theory	CMS-A-CC-6-13-TH	Software Engineering	4
Core Course -14	Theory	CMS-A-CC-6-14-TH	Theory of Computation	4
	Practical	CMS-A-CC-6-14-P	Project	4

CMS-A-CC-6-14-P: Project Work
Core Course-14, Practical, Credit:04, Contact hours: 60.
Candidates have to do their project in any relevant topic, under the supervision of teachers.

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➢ Department of Geography:

5. GEO-A-CC-5-11-P – Research Methodology

2.22 GEO-A-CC-5-11-P – Research Methodology and Fieldwork Lab ✧ 30 Marks / 2 Credits

Every student needs to participate in fieldwork and prepare a field report according to the following guideline, failing which he/she will not be evaluated for GEO-A-CC-5-11-P.

1. Each student will prepare a report based on primary data collected from field survey and secondary data collected from different sources.
2. Students will select either one rural area (*mouza*) or an urban area (municipal ward) for the study, with the primary objective of evaluating the relation between physical and cultural landscape.
3. A specific problem or a special feature should be identified based on which, the study area will be selected.
4. The report should be handwritten in English on A4 size paper in candidate's own words within 5,000 words (Introductory Chapter: 1000 words; Physical Aspects: 1500 words; Socio-economic Aspects: 1500 words; Concluding Chapter: 500 words, approximately) excluding tables, photographs, maps, diagrams, references and appendices.
5. Photographs, maps and diagrams should not exceed 15 pages.
6. A copy of the bound report, duly signed by the concerned teacher, will be submitted during examination.
7. The field work and post-field work will include:
   a. Collection of primary data on physical aspects (relief and soil) of the study area. Students should use survey instruments like prismatic compass, dumpy level, Abney level or clinometer wherever necessary.
   b. Collection of soil samples from different land cover land use regions of the study area for determining pH and NPK values with help of a soil kit.
   c. Collection of socio economic data, at the household level (with the help of a questionnaire) in the selected study area.
   d. Plot to plot land use survey for preparation of a land use map, covering whole or part of the selected area.
   e. Visit to different organisations and departments for collection of secondary data.
   f. Any other survey relevant to the objective of the study.
8. The Field Report should contain the following sections (a–e).
   a. Introduction: Study area extent and space relations, reasons for selection of the study area on the basis of a specific problem or special feature, objectives, methods of data collection, analyses and presentation, sources of information, etc.
   b. Physical aspects: Lithology and geological structure, relief, slope, drainage, climate, soil, vegetation, environmental issues, proneness to natural hazards, etc.
   c. Socio-economic aspects:
      i. Population attributes: Number, sex ratio, literacy, occupational structure, ethnic and religious composition, language, per capita income, etc.
      ii. Settlement characteristics: Number of houses, building materials, number and size of rooms, amenities, etc.
      iii. Agriculture: General land use, crop-combination, use of fertiliser and irrigational facilities, production and marketing etc.
      iv. Other economic activities: Fishing, horticulture, brick-making, household and other industries, etc.

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6. GEO-A-CC-6-14-P-Hazard Management

2.28 GEO-A-CC-6-14-P – Hazard Management Lab ✧ 30 Marks / 2 Credits

A Group Project Report is to be prepared and submitted based on any one case study among the following hazards from West Bengal, incorporating a preparedness plan, preferably in the vicinity of the candidates' institution / district:

1. Earthquake
2. Landslide
3. Land subsidence
4. Thunderstorm
5. Flood
6. Riverbank / Coastal erosion
7. Fire
8. Industrial accident
9. Road / Railway accident
10. Structural collapse
11. Environmental pollution
12. Biohazard

One case study will be done by a group of five to ten students. Different groups may choose different case studies from any one or different types of disasters. The report should be prepared on secondary data and handwritten on A4 page in candidates' own words not exceeding 2,000 words excluding references. The report should contain a proper title. The report should incorporate relevant tables, maps, diagrams, and references, not exceeding ten pages. Photographs are optional and should not exceed three. A copy of the stapled / spiral-bound report in a transparent cover, duly signed by the concerned teacher, is to be submitted during examination. Without the report the candidates will not be evaluated for GEO-A-CC-6-14-P.

Marks division: 20 on report + 10 on viva-voce = 30

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➢ **Department of Zoology:**

7. ZOO-A-DSEB-6-1-P – Animal Behavior and Circadian Rhythm

Animal Behaviour and Chronobiology Lab, ZOOA-DSE(B)-6-1-P

Full Marks 50	60 Hours	2 Credits

List of Practical

1. To study nests and nesting habits of the birds and social insects.
2. To study the behavioural responses of wood lice to dry and humid conditions(demonstration only).
3. To study geotaxis behaviour in earthworm.
4. To study the phototaxis behaviour in insect larvae.
5. Visit to Forest/ Wild life Sanctuary/Biodiversity Park/Zoological Park to study behavioural activities of animals and prepare a short report.
6. Study of circadian functions in humans (daily eating, sleep and temperature patterns).

8. ZOO-A-DSEA-6-2-P – Animal Cloning

Animal Biotechnology Lab, ZOOA-DSE(A)-6-2-P

Full Marks 30	60 Hours	2 Credits

List of Practical

1. Genomic DNA isolation from *E. coli* and Plasmid DNA isolation (pUC 18/19) from *E. coli*
2. To study following techniques through photographs - Southern Blotting, Northern Blotting, Western Blotting, PCR, DNA fingerprinting
3. Project report on animal cloning & Application & ethical Issues.

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9. ZOOA-DSE(B)-6-1-P- Visit to Bandhavgarh, Madhya Pradesh

Animal Behaviour and Chronobiology Lab, ZOOA-DSE(B)-6-1-P

Full Marks 50	60 Hours	2 Credits

List of Practical

1. To study nests and nesting habits of the birds and social insects.
2. To study the behavioural responses of wood lice to dry and humid conditions(demonstration only).
3. To study geotaxis behaviour in earthworm.
4. To study the phototaxis behaviour in insect larvae.
5. Visit to Forest/ Wild life Sanctuary/Biodiversity Park/Zoological Park to study behavioural activities of animals and prepare a short report.
6. Study of circadian functions in humans (daily eating, sleep and temperature patterns).

10. ZOOA-CC6-11-P (visit to National Park- Bandhavgarh, Madhya Pradesh)

Unit 4: Ecosystem	1
Types of ecosystem with an example in detail, Food chain. Detritus and grazing food chains, Linear and Y-shaped food chains, Food web, Energy flow, Ecological pyramids and Ecological efficiencies; Nitrogen cycle.	
Unit 5: Applied Ecology	7
Types & level of biodiversity Mega-diversity countries, Biodiversity Hot spot, Flagship species, Keystone species, Wildlife Conservation (*in situ* and *ex situ* conservation), concept of protected areas. Red data book, Indian wild life act & Schedule. Concept of corridor, advantages and problem of corridor. Threats to survival and conservation strategies for Tiger, Olive ridley, White Rumped Vulture.	

Ecology Lab, ZOOA-CC5-11-P

Full Marks 30	60 Hours	2 Credits

List of Practical

1. Determination of population density in a natural/hypothetical community by quadrate method and calculation of Shannon-Weiner diversity index for the same community
2. Study of an aquatic ecosystem: Phytoplankton and zooplankton, Measurement of area, temperature, salinity, determination of pH, and Dissolved Oxygen content (Winkler's method), Chemical Oxygen Demand and free CO_2
3. Report on a visit to National Park/Biodiversity Park/Wild life sanctuary/ any place of ecological interest/ ecological uniqueness/ Zoological garden

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➢ Department of Business Administration:

11. BBA-BBAA604DSE4C-Research project

	Semester V				
	Quantitative Techniques for Management	100	Core	6	BBAA501C11
	Legal Aspects of Business	100	Core	6	BBAA502C12
	Elective – I Discipline Specific Elective-paper **a** of 1/2/3/4	100	Disc. Specific Elective	6	BBAA503DSE 1/2/3/4(A)
	Elective – II Discipline Specific Elective-paper **b** of 1/2/3/4	100	Disc. Specific Elective	6	BBAA504DSE 1/2/3/4(B)
		400		**24**	
	Semester VI				
	Business Policy & Strategy	100	Core	6	BBAA601C13
	Financial Institutions and Markets	100	Core	6	BBAA602C14
	Elective – III Discipline Specific Elective-paper **c** of 1/2/3/4	100	Disc. Specific Elective	6	BBAA603DSE 1/2/3/4(C)
	Research Project	100	Disc. Specific Elective (Applicable to all)	6	BBAA604DSE 1/2/3/4
		400		**24**	
	TOTAL	**2600**		**144**	

12. BBAA405SE2 (Internship-Sem 4)

Business to Business e-commerce: Meaning, benefits and opportunities in B2B, B2B building blocks and their relationship to supply chain management, key B2B models and their main functions, EDI as a B2B tool.
Consumer oriented e-commerce: traditional retailing and e-retailing, benefits and key success factors for e-retailing, models for e-retailing like specialized and generalized e-stores, e-mall, direct selling by manufacturer, supplementary distribution channel, e-broker and e-services like web-enabling services, matchmaking services, information selling on the web, entertainment services and auction services.
E-core values: ethical issues, legal issues, taxation issues and international issues.

BBAA405SE2 Summer Internship(Credits -4, Marks-100

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13. BBAA606SI (Internship -2/4/6-CCF2022)

Semester 6					
1	Legal Aspects of Business	100	Core	4	BBAA601CC13
2	Management Accounting	100	Core	4	BBAA602CC14

3	Tax Planning	100	Core	4	BBAA603CC15
4	Human Rights and Practices	100	Minor	4	BBAA604M7
5	Ecommerce and Case Study	100	Minor	4	BBAA605M8
6.	Summer Internship*(Internal and external from colleges only)	75		3	BBAA606SI
		575		23	
Semester 7					
1	International Trade Policy and Strategy	100	Core	4	BBAA701CC16
2	Corporate Social	100	Core	4	BBAA702CC17

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➢ Department of Microbiology

14. MCB-A-CC-5-12-TH (Industrial Microbiology)

B.Sc (HONOURS) MICROBIOLOGY (CBCS STRUCTURE) C-12: INDUSTRIAL MICROBIOLOGY (THEORY) SEMESTER –V

TOTAL HOURS: 60 **CREDITS: 4**

Unit 1 Introduction to industrial microbiology **No. of Hours: 2**
Brief history and developments in industrial microbiology

Unit 2 Isolation of industrially important microbial strains and fermentation media **No. of Hours: 10**
Sources of industrially important microbes and methods for their isolation, preservation and maintenance of industrial strains, strain improvement, Crude and synthetic media; molasses, corn-steep liquor, sulphite waste liquor, whey, yeast extract and protein hydrolysates

Unit 3 Types of fermentation processes, bio-reactors and measurement of fermentation parameters No. of Hours: 12 Types of fermentation processes - Solid-state and liquid-state (stationary and submerged) fermentations; batch, fed-batch (eg. baker's yeast) and continuous fermentations
Components of a typical bio-reactor, Types of bioreactors-Laboratory, pilot- scale and production fermenters, constantly stirred tank and air-lift fermenters, Measurement and control of fermentation parameters - pH, temperature, dissolved oxygen, foaming and aeration

Unit 4 Down-stream processing **No. of Hours: 6**
Cell disruption, filtration, centrifugation, solvent extraction, precipitation, lyophilization and spray drying

Unit 5 Microbial production of industrial products (micro-organisms involved, media, fermentation conditions, downstream processing and uses) No. of Hours: 18 Citric acid, ethanol, penicillin, glutamic acid, Vitamin B12 Enzymes (amylase, protease, lipase)

Wine, beer

Unit 6 Enzyme immobilization **No. of Hours: 4**
Methods of immobilization, advantages and applications of immobilization, large scale applications of immobilized enzymes (glucose isomerase and penicillin acylase)

C-12: INDUSTRIAL MICROBIOLOGY (PRACTICAL) SEMESTER –V

TOTAL HOURS: 60 **CREDITS: 2**

1. Study different parts of fermenter
2. Microbial fermentations for the production and estimation (qualitative and quantitative) of:
   (a) Enzymes: Amylase and Protease
   (b) Amino acid: Glutamic acid
   (c) Organic acid: Citric acid
   (d) Alcohol: Ethanol
3. A visit to any educational institute/industry to see an industrial fermenter, and other downstream processing operations.

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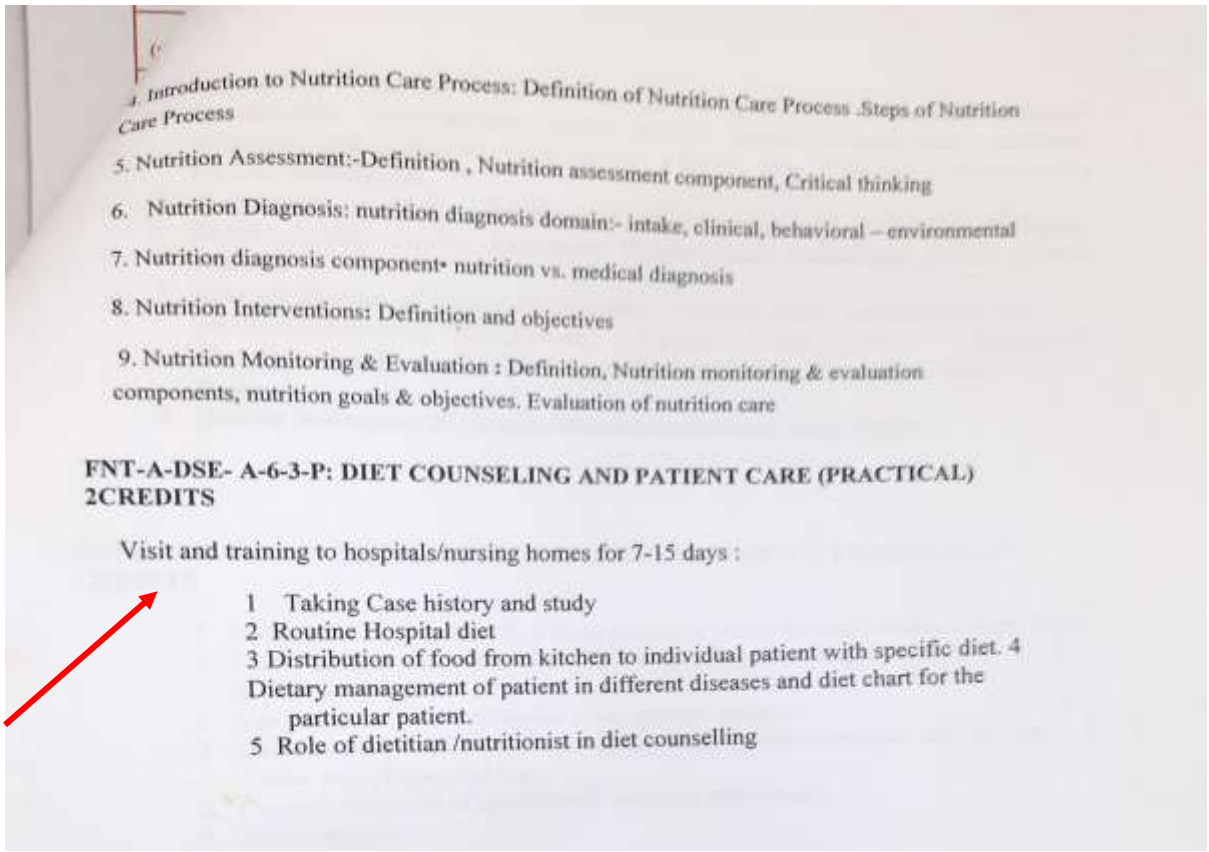
➢ Department of Food & Nutrition

15. FNTA-DSEA3 (Internship on Diet Counselling)



4. Introduction to Nutrition Care Process: Definition of Nutrition Care Process .Steps of Nutrition Care Process

5. Nutrition Assessment:-Definition , Nutrition assessment component, Critical thinking

6. Nutrition Diagnosis: nutrition diagnosis domain:- intake, clinical, behavioral – environmental

7. Nutrition diagnosis component• nutrition vs. medical diagnosis

8. Nutrition Interventions: Definition and objectives

9. Nutrition Monitoring & Evaluation : Definition, Nutrition monitoring & evaluation components, nutrition goals & objectives. Evaluation of nutrition care

FNT-A-DSE- A-6-3-P: DIET COUNSELING AND PATIENT CARE (PRACTICAL) 2CREDITS

Visit and training to hospitals/nursing homes for 7-15 days :

1 Taking Case history and study
2 Routine Hospital diet
3 Distribution of food from kitchen to individual patient with specific diet. 4 Dietary management of patient in different diseases and diet chart for the particular patient.
5 Role of dietitian /nutritionist in diet counselling

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➢ **Department of Commerce:**

16. Internship (Sem 2/4/6-CCF2022)

17. CC6.1 Ch (B. Com Hons.)-Project Work

Year 3: Semester VI

		Marks	Credit Hours	
AECC 6.1Chg	Environmental Studies	100	2	
SEC 6.1Chg	Computerised Accounting and e-Filing of Tax Returns	100	4	
CC 6.1 Ch	Project Work	100	6	
DSE 6.1 A**	Financial Reporting and Financial Statement Analysis	100	6	
DSE 6.2 A**	Financial Management	100	6	
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Chg: Common for Honours and General; **Ch:** Core Course for Honours

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