

Resolution No. AC// (23-24).3.RUA8

S. P. Mandali's
Ramnarain Ruia Autonomous College
(Affiliated to University of Mumbai)



Syllabus for
Program: F.Y.B.A.

Program Code: (RUAPHI)

(As per the guidelines of National Education Policy 2020-
Academic year 2023-24)

(Choice based Credit System)

PROGRAM OUTCOMES

S. P. Mandali's Ramnarain Ruia Autonomous College has adopted the Outcome Based Education model to make its science graduates globally competent and capable of advancing in their careers. The Bachelors Program in Science also encourages students to reflect on the broader purpose of their education.

PO	PO Description
	A student completing Bachelor's Degree in Science program will be able to:
PO 1	Demonstrate understanding and skills of application of knowledge of historical and contemporary issues in the social and linguistic settings with a transdisciplinary perspective to make an informed judgement.
PO 2	Analyse and evaluate theories of individual and social behaviour in the familiar contexts and extrapolate to unfamiliar contexts in order to resolve contemporary issues.
PO 3	Effectively and ethically use concepts, vocabularies, methods and modern technologies in human sciences to make meaningful contribution in creation of information and its effective dissemination
PO 4	Explore critical issues, ideas, phenomena and debates to define problems or to formulate hypotheses; as well as analyze evidences to formulate an opinion, identify strategies, evaluate outcomes, draw conclusions and/or develop and implement solutions.
PO 5	Demonstrate oral and written proficiency to analyse and synthesise information and apply a set of cognitive, affective, and behavioural skills to work individually and with diverse groups to foster personal growth and better appreciate the diverse social world in which we live.
PO 6	Develop a clear understanding of social institutional structures, systems, procedures, and policies existing across cultures, and interpret, compare and contrast ideas in diverse social- cultural contexts, to engage reasonably with diverse groups.
PO 7	React thoughtfully with emotional and moral competence to forms of expressive direct action and apply social strategies toward eradicating threats to a democratic society and a healthy planet.
PO 8	Articulate and apply values, principles, and ideals to the current societal challenges by integrating management and leadership skills to enhance the quality of life in the civic community through actions that enrich individual lives and benefit the community.

PROGRAM SPECIFIC OUTCOMES

PSO	Description
	A student completing Bachelor's Degree in Science program in the subject of Statistics will be able to:
PSO 1	Understand and appreciate the framework of morality in the Indian and western context
PSO 2	Critically analyze daily life situations and problems and come up with efficient solutions
PSO 3	Comprehend the underlying moral dimensions of any given situation, analyze them and make morally sound judgements
PSO 4	Appreciate the deep-rooted heritage of Indian and Western philosophical thought and its influence on the society.
PSO 5	Imbibe the values of tolerance, secularism, acceptance, objectivity and respect to other people's faiths, beliefs, opinions and different.
PSO 6	Cultivate a spirit of rationality and logical thinking by enhancing argumentative and analytical skills involved in philosophical reasoning.
PSO 7	Bring various theoretical and philosophical concepts to the realm of reality and learn their implications to real life.
PSO 8	Develop an ethical understanding about different contemporary issues concerning the current society.

CREDIT STRUCTURE BA

Semester	Subject 1		Subject 2	GE/ OE course (Across disciplines)	Vocational and Skill Enhancement Course (VSC) & SEC	Ability Enhancement Course/ VEC/IKS	OJT/FP/CEPCC, RP	Total Credits
	DSC	DSE						
1	4		4	4 (2*2)	VSC-2 + SEC -2	AEC- 2 (CSK) + VEC- 2 (Understanding India) + IKS-2		22
2	4		4	4 (2*2)	VSC-2 + SEC -2	AEC-2 (CSK)+ VEC-2 (Env Sc)	CC-2	22
Total	8		8	8	8	10	2	44
Exit option: award of UG certificate in Major with 44 credits and an additional 4 credit Core NSQF course/ Internship or Continue with Major and Minor								
3	Major 8		Minor 4	2	VSC-2	AEC-2 MIL	FP -2, CC-2	22
4	Major 8		Minor 4	2	SEC-2	AEC-2 MIL	CEP-2, CC-2	22
Total	16		8	4	4	4	8	44
Exit option: award of UG Diploma in Major with 88 credits and an additional 4 credit Core NSQF course/ Internship or Continue with Major and Minor								

5	DSC 12	DS E	Minor		VSC-2- Major		CEP/FP-2	22
6	DSC 12	DS E 4	Minor 2				OJT-4	22
Total	24	8	4		2		6	44
	Exit option: award of UG Degree in Major with 132 credits or Continue with Major for Honours/ Research							

CREDIT STRUCTURE BSc

Semester	Subject 1		Subject 2	GE/ OE course (Across disciplines)	Vocational and Skill Enhancement Course (VSC) & SEC	Ability Enhancement Course/ VEC/IKS	OJT/FP/CEPCC, RP	Total Credits
	DSC	DSE						
1	4		4	4 (2*2)	VSC-2 + SEC -2	AEC- 2 (CSK) + VEC- 2 (Env Sc.) + IKS-2		22
2	4		4	4 (2*2)	VSC-2 + SEC-2	AEC-2 (CSK)+ VEC-2 (Understanding India)	CC-2	22
Total	8		8	8	8	10	2	44
Exit option: award of UG certificate in Major with 44 credits and an additional 4 credit Core NSQF course/ Internship or Continue with Major and Minor								
3	Major 8		Minor 4	2	VSC-2	AEC-2 MIL	FP -2, CC-2	22
4	Major 8		Minor 4	2	SEC-2	AEC-2 MIL	CEP-2, CC-2	22
Total	16		8	4	4	4	8	44

Exit option: award of UG Diploma in Major with 88 credits and an additional 4 credit Core NSQF course/ Internship or Continue with Major and Minor								
5	DSC 12	DS E 4	Minor 2		VSC-2		CEP/FP-2	22
6	DSC 12	DS E 4	Minor 2				OJT-4	22
Total	24	8	4		2		6	44
Exit option: award of UG Degree in Major with 132 credits or Continue with Major for Honours/ Research								

Course Code: RUAVSCPHI.O101

Course Title: Critical Thinking

Type of Course: Vocational Skill-based course

Academic year 2023-24

COURSE OUTCOMES:

COURSE OUTCOME	DESCRIPTION
	A student completing this course will be able to:
CO 1	Introducing students to Critical Thinking and the methodologies
CO 2	Identifying types of beliefs, claims, and issues in Critical Thinking
CO3	Understanding the science of arguments and developing argumentation
CO4	Developing proofs and supporting evidence in an argument
CO5	Identifying flaws in an argument

COURSE OUTCOMES:

After completion of this course, students will be able to:

COURSE OUTCOMES	DESCRIPTION
CO1	Understand the concepts in Critical Thinking and adopt its methodology
CO2	Discriminate between opinions and facts, subjective and objective beliefs
CO3	Adopt a systematic approach to arguments
CO4	Support arguments with the best suitable evidence and proofs
CO5	Identify flaws in arguments presented to them

DETAILED SYLLABUS

Course Code	Unit	Course/ Unit Title	Credits/ Hours
RUAVSCPHI.O101		Introduction to Critical Thinking	2
	Unit I	Basics of Critical Thinking	15
		a) Critical thinking: <i>definitions, uses, and barriers</i> b) Components of CT: beliefs and claims, facts and opinions, issues and arguments c) Methodology of Critical Thinking	
	Unit II	The Nuts and Bolts of Arguments	15
		a) Understanding argument, nuts and bolts of arguments, soundness, and validity b) Finding proofs and evidence: primary vs secondary sources, selecting the best evidence, eye-witness, testimony, reputable sources, etc c) Identifying flaws in arguments: false analogies, defective generalizations, emotive language, etc	

References:

- Bowell and Kemp. *Critical Thinking: A Concise Guide*. Routledge, 2010.
- Fisher, Alec. *Critical Thinking*. Cambridge University Press, 2011.
- Moore and Parker. *Critical Thinking*. Mc-Graw Hill, 1986 (original year of publishing)
- Allen, Matthew. *Smart Thinking: Skills for Critical Understanding and Writing*. Oxford University Press, 1997 (original year of publishing)

Modality of Assessment: Vocational Skill-based course (2 Credit Theory Course for BA)

A) Internal Assessment- 40%- 20 Marks

Sr No	Evaluation type	Marks
1	Class Test/ Project / Assignment / Presentation	20

B) External Examination (Semester End)- 60%- 30 Marks

Semester End Theory Examination:

1. Duration – The duration for these examinations shall be of **One hour**.
2. Theory question paper pattern:

Paper Pattern:

Question	Options	Marks	Questions Based on
1	A or B	15	Unit I
2	A or B	15	Unit II
	TOTAL	30	

Course Code: RUAVSCPHI.E111

Course Title: Critical thinking: Advanced

Type of course: Vocational Skill- Based course

Academic year 2023-24

COURSE OBJECTIVES:

COURSE OBJECTIVES	DESCRIPTION
1	Training students to evaluate various claims and their credibility
2	Learning various persuasion techniques and ways to identify them
3	Understanding techniques to argue back
4	Learning problem-solving, goal-setting, and decision-making.
5	Learning the relationship between critical thinking and emotions

COURSE OUTCOMES:

After completion of this course, students will be able to:

COURSE OUTCOMES	DESCRIPTION
CO 1	Evaluate various sources and rate their credibility
CO 2	Identify persuasion in any content and successfully learn to counter argue with people
CO 3	Implement problem-solving, decision-making, and goal-setting skills in their lives
CO 4	Analyze and manage their emotions effectively

DETAILED SYLLABUS:

Course Code/ Unit	Unit	Course/ Unit Title	Credits/ Lectures
RUAVSCPHI.E111		Critical Thinking: Advanced	2
	Unit I	Judging information critically	15
		a) Judging credibility of sources: claim and personal observations, expertise, background check, vested interests, etc b) Techniques of persuasion: loaded terms, loaded questions, vague terms, false confidence, misleading stats, appeal to guilt and pity, etc c) How to argue back: counter-examples, explaining weak argument, absurd examples, counter-arguments, etc	
	Unit II	CT and individual development	15
		a) CT and problem-solving: working backward, heuristics, etc b) Decision making and goal setting: Decision-making models and SMART goal setting c) Practical/ CT and emotional management	

Books for reference:

- Bowell and Kemp. *Critical Thinking: A Concise Guide*. Routledge, 2010.
- Fisher, Alec. *Critical Thinking*. Cambridge University Press, 2011.
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