

MOOGAMBIGAI CHARITABLE AND EDUCATIONAL TRUST

Rajarajeswari College of Engineering

(An Autonomous Institution under Visvesvaraya Technological University, Belagavi) #14, Ramohalli Cross, Kumbalagodu, Mysore Road, Bengaluru–560074











Common Courses

Bachelor of Engineering (B.E)

Syllabus of III & IV Semester

(2024 Scheme)



(An Autonomous Institution under Visvesvaraya Technological University, Belagavi)

SEMESTER-III								
SOCIAL CONNECT & RESPONSIBILITY								
Category: UHV								
Course Code	:	B24SCK307	CIE	:	50 Marks			
Teaching Hours L: T: P	:	0:0:2	SEE	:	50 Marks			
Total Hours	:	15(T)	Total	:	100 Marks			
Credits	:	1	SEE Duration	:	3 Hrs			

	Course Objectives
1.	Provide a formal platform for students to communicate and connect to the surrounding.
2.	Create a responsible connection with the society.
3.	Understand the community in general in which they work.
4.	Identifytheneedsandproblemsofthecommunityandinvolvetheminproblem-solving.
5.	Develop among themselves a sense of social & civic responsibility & utilize their knowledge in finding practical solutions to individual and community problems.
6.	Develop competence required for group-living and sharing of responsibilities & gain skills
	In mobilizing community participation to acquire leadership qualities and democratic attitudes

Module-1: Plantation and adoption of a tree	No. of Hours
Plantation of a tree that will be adopted for four years by a group of BE / B. Tech students. (ONE	
STUDENT ONE TREE) They will also make an excerpt either as a documentary or a photo blog	
describing the plant's origin, its usage in daily life, its appearance in folklore and literature	3
Objectives, Visit, case study, report, outcomes	
Module-2: Heritage walk and crafts corner	No. of Hours
Heritage tour, knowing the history and culture of the city, connecting to people around through their	
history, knowing the city and its craftsman, photo blog and documentary on evolution and practice	3
of various craft forms Objectives, Visit, case study, report, outcomes.	
Module-3: Organic farming and waste management	No. of Hours
Usefulness of organic farming, wet waste management in neighboring villages, and implementation	
in the campus-Objectives, Visit, case study, report, outcomes.	3
Module-4: Water conservation	No. of Hours
Knowing the present practices in the surrounding villages and implementation in the campus, documentary or photo blog presenting the current practices – Objectives, Visit, case study, report, outcomes.	3
Module-5 : Food walk	No. of Hours
City's culinary practices, food lore, and indigenous materials of the region used in cooking—Objectives, Visit, case study, report, outcomes.	3

Course	Outcomes: At the end of the course, the students will be able to
CO1	Communicate and connect to the surrounding.
CO2	Create a responsible connection with the society.
CO3	Involve in the community in general in which they work.
CO4	Notice the needs and problems of the community and involve the min problem –solving.
CO5	Develop among themselves a sense of social & civic responsibility & utilize their knowledge in finding practical solutions to individual and community problems.
CO6	Develop competence required for group-living and sharing of responsibilities & gain skills in mobilizing community participation to acquire leadership qualities and democratic attitudes.

ASSESSMENT DETAILS (BOTH CIE AND SEE)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing mark for the CIE is 40% of the maximum marks (20 marks out of 50) and for the SEE minimum passing mark is 35% of the maximum marks (18 out of 50 marks). A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course if the student secures a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.



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CONTINUOUS INTERNAL EVALUATION (CIE)

CIE FOR THE THEORY:

- 1. Three tests each of 50 marks, after the completion of the syllabus 40%, 70% and 100% respectively.
- 2. Average of best two internal assessment tests each of 50 marks, scale down to 30 marks.
- 3. The students have to complete the five activities (one activity per module) and each activity is evaluated for 5 marks. The obtained activity marks is scale down to 5 marks. The activities report is evaluated for 15 marks.
- 4. Total marks scored (30+20 = 50 marks).
- 5. The minimum passing mark for the CIE is 40% of maximum marks (20 marks out of 50).

SEMESTER END EXAMINATION (SEE)

Semester End Examination will be conducted by the two examiners (Internal Faculty members) appointed by the BOE Chairman of the respective department and get approval from Principal / COE. The SEE marks awarded shall be based on the evaluation of write-up, project presentation skill, question and answer session in the ratio 25:50:25.

CO-PO Mapping

	PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO8	PO11
CO												
CO1		1	1	-	-	-	-	-	-	-	-	1
CO2		1	1	-	-	-	-	-	-	-	-	1
CO3		1	1	-	-	-	-	-	-	-	-	1
CO4		1	1	-	-	-	-	-	-	-	-	1
CO5		1	1	-	-	-	-	-	-	-	-	1
CO6		1	1	-	-	-	-	-	-	-	-	1

Level 3 - High, Level 2 - Moderate, Level 1 - Low



SEMESTER-III & IV							
NATIONAL SERVICE SCHEME (NSS)							
Category: NCMC							
Course Code	:	B24NCK391/491	CIE	:	50 Marks		
Teaching Hours L: T: P	:	1:0:0	SEE	:			
Total Hours	:	50	Total	:	50 Marks		
Credits	:		SEE Duration	:			

	Course Objectives
1.	Understand the community in which they work
2.	Identify the needs and problems of the community and involve the min problem-solving
3.	Develop among themselves a sense of social & civic responsibility & utilize their knowledge in finding practical solutions to individual and community problems
4.	Develop competence required for group-living and sharing of responsibilities & gain skills in mobilizing community participation to acquire leadership qualities and democratic attitudes
5.	Develop capacity to meet emergencies and natural disasters & practice national integration and social harmony

 Organic farming, Indian Agriculture (Past, Present and Future) Connectivity for marketing. Waste management—Public, Private and Govt. organization. Setting of the information imparting club for women leading to contribution in social and economic issues. Water conservation techniques—Role of different take holders—Implementation. Preparing an actionable business proposal for enhancing the village income and approach for implementation. Helping local schools to achieve good results and enhance their enrolment in Higher/ technical/ vocational education. Developing Sustainable Water management system for rural areas and implementation approaches. Contribution to any national level initiative of Government of India. Digital India, Skill India, Swachh Bharat, Atmanirbhar Bharath, Make in India, Mudra scheme, Skill development programs etc. Spreading public awareness under rural outreach programs. (minimum 5 programs). Social connect and responsibilities. Plantation and adoption of plants. Know your plants. Organize National integration and social harmony events/ workshops / seminars. (Minimum 02 programs). 		CONTENT	No. of Hours
13. Govt. school Rejuvenation and helping them to achieve good infrastructure. NOTE: Students have to take up any one activity on the above said topics and have to prepare content for awareness and technical contents for implementation of the projects and have to present strategies for implementation of the same. Compulsorily students have to attend one camp. CIE will be evaluated based on their presentation, approach and implementation strategies.	2. 3. 4. 5. 6. 7. 8. 10. 11. 12. 13.	Organic farming, Indian Agriculture (Past, Present and Future) Connectivity for marketing. Waste management—Public, Private and Govt. organization. Setting of the information imparting club for women leading to contribution in social and economic issues. Water conservation techniques—Role of different take holders—Implementation. Preparing an actionable business proposal for enhancing the village income and approach for implementation. Helping local schools to achieve good results and enhance their enrolment in Higher/ technical/ vocational education. Developing Sustainable Water management system for rural areas and implementation approaches. Contribution to any national level initiative of Government of India. Digital India, Skill India, Swachh Bharat, Atmanirbhar Bharath, Make in India, Mudra scheme, Skill development programs etc. Spreading public awareness under rural outreach programs. (minimum 5 programs). Social connect and responsibilities. Plantation and adoption of plants. Know your plants. Organize National integration and social harmony events/ workshops / seminars. (Minimum 02 programs). Govt. school Rejuvenation and helping them to achieve good infrastructure. NOTE: Students have to take up any one activity on the above said topics and have to prepare content for awareness and technical contents for implementation of the projects and have to present strategies for implementation of the same. Compulsorily students have to attend one camp.	



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Course Outo	Course Outcomes: After completing the course, the students will be able to					
CO1	Understand the importance of his/her responsibilities towards society.					
CO2	Analyze the environmental and societal problems/issues and will be able to design solutions for the same.					
CO3	Evaluate the existing system and to propose practical solutions for the same for sustainable development.					
CO4	Implement government or self-driven projects effectively in the field.					

CO-PO Mapping

PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO12
CO											
CO1	3	2	-	-	3	-	-	-	-	-	-
CO2	3	2	-	-	3	-	-	-	-	-	-
CO3	3	2	-	-	3	-	-	-	-	-	-
CO4	3	2	-	-	3	-	-	-	-	-	-

Level 3- Highly Mapped, Level 2-Moderately Mapped, Level 1-Low Mapped, Level 0- Not Mapped



SEMESTER-III & IV							
NATIONAL CADET CORPS (NCC)							
Category: NCMC							
Course Code	:	B24NCK392/492	CIE	:	50 Marks		
Teaching Hours L: T: P	:	1:0:0	SEE	:			
Total Hours	:	50	Total	:	50 Marks		
Credits	:		SEE Duration	:			

	Course Objectives
1.	To develop character, camaraderie, discipline, secular outlook, the spirit of adventure, sportsman spirit, and
	ideals of selfless service amongst cadets by working in teams, honing qualities such as self-discipline, self-
	confidence, self-reliance, and dignity of labour in the cadets.
2.	To create a pool of organized, trained, and motivated youth with leadership qualities from all walks of life, who
	will serve the Nation regardless of which career they choose
3.	To provide a conducive environment to motivate young Indians to choose the Armed Forces as a career

Content	No. of Hours
Unit 1. Personality Development: Group Discussions - Change your Mindset, Public Speaking.	
Unit 2.LeadershipDevelopment: Case Studies— APJ Abdul Kalam, DeepaMalik, Maharana Pratap, N Narayan Murthy etc.	
Unit 3. Disaster management: Disaster Management Capsule, Organization, Types of Disasters, Essential Services, Assistance, Civil Defense Organization.	
Unit 4.Adventure: Adventure Activities	
Unit 5. Border & Coastal Areas: History, Geography & Topography of Border/ Coastal Areas.	50
Unit 6. Drill: Arm Drill, Rifle ke saath Savdhan, Vishram aur Aram se, Rifle ke saath Parade Paraur Saj, Riflekesaath Visarjan, LineTod, Bhumi Shastra aur Uthao Shastra, BagalShastra aur Baju Shastra.	
Unit 7.WeaponTraining: Short Range firing.	
Unit 8.MapReading: SettingofMap, FindingsNorthandOwnPosition	
Unit 9.Field Craft & Battle Craft: Observation, Camouflage, Concealment.	
Unit 10. Obstacle Training: Obstacle training - Introduction, Safety-measures, Benefits. Obstacle Course- Straight balance, Clear Jump, Gate Vault, Zig- Zag Balance, High Wall	<u> </u>

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SEMESTER-III & IV					
	PHYSICAL EDUCATION(PE)				
		Category: NC	MC		
Course Code	:	B24NCK393/493	CIE	:	50 Marks
Teaching Hours L : T : P	:	1:0:0	SEE	:	
Total Hours	:		Total	:	50 Marks
Credits	:		SEE Duration	:	

Semester	Course
III	Fitness Components
	Kabaddi / KhoKho
IV	Athletics
	Volleyball
	Throw ball
V	Athletics
	Football / Hockey
VI	Athletics
	Cricket / Base ball
VII	Athletics
	Netball / Basketball
VIII	Individual Games
	Handball / Badminton

Notes:

- One Hour of Lecture is equal to 1 Credit
- One Hour of Tutorial is equal to 1 Credit (Except Languages)
- Two Hours of Practical is equal to 1 Credit
- SEE: Semester End Examination
- CIE: Continuous Internal Examination
- L+T+P: Lecture + Tutorial + Practical



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Guideline for Athletic and Sports

Carros T:41a	Combont	No of House
		No. of Hours
Components		
Speed	KABADDI	
-	A. Fundamental skills	
Endurance Agility Flexibility	Skills in Raiding: Touching with hands, Use of leg-toe touch, squat leg thrust, side kick, mule kick, arrow fly kick, crossing of baulk line. Crossing of Bonus line.	
	Skills of holding the raider: Various formations, catching from particular position, different catches, catching formation and techniques.	T. 1001
	 Additional skills in raiding: Escaping from various holds, techniques of escaping from chain formation, offense and defense. Game practice with application of Rules and Regulations. 	Total-32 hours 2 hours / week
	B. Rules and their interpretations and duties of the officials.	
	A. Fundamental skills	
Kho kho		
	*	
	1. Skills in Raiding: Touching with hands, Use of leg-toe touch, squat leg	
	thrust, side kick, mule kick, arrow fly kick, crossing of baulk line. Crossing of Bonus line.	
Kabaddi	2. Skills of holding the raider: Various formations, catching from	
	Agility Flexibility Kho kho	Meaning and Importance, Fit India Movement, Definition of fitness, Components of fitness, Benefits of fitness, Types of fitness and Fitness tips. Practical Components: Speed, Strength, Endurance, Flexibility, and Agility



		Track Events	
		> Starting Techniques: Standing start and Crouch start (its variations)	
	Athletics	use of Starting Block.	
	Track-Sprints	Acceleration with proper running techniques.	
	Jumps-Long Jump	> Finishing technique: Run Through, Forward Lunging and Shoulder	
	Throws-Shot Put	Shrug.	
		Long Jump: Approach Run, Take-off, Flight in the air (Hang Style / Hitch	
4 th Semester		Kick) and Landing	Total-32 hours
		Shot put: Holding the Shot, Placement, Initial Stance, Glide, Delivery	2 hours / week
B24NCK493		Stance and Recovery (Perry O'Brien Technique)	
		A. Fundamental skills	
		Service: Under arm service, Side arm service, Tennis service, Floating	
	Volleyball	service.	
	•	Pass: Under arm pass, Over head pass.	
		Spiking and Blocking.	
		Game practice with application of Rules and Regulations	
		B. Rules and their interpretation and duties of officials.	
		A. Fundamental skills	
	Throw ball	Overhand service, Side arm service, two hand catching, one hand overhead	
	Tinow our	return, side arm return.	
		B. Rules and their interpretations and duties of officials	



		110 Meters and 400 Meters:		
	Athletics	Hurdling Technique: Lead leg Technique, Trail leg Technique, Side		
	Track-110&400	Hurdling, Over the Hurdles		
	Meters Hurdles	Crouch start (its variations) use of Starting Block.		
	Jumps-High Jump	Approach to First Hurdles, In Between Hurdles, Last Hurdles to Finishing.		
	Throws-Discuss	High jump: Approach Run, Take-off, Bar Clearance (Straddle) and		
	Throw	Landing.		
		Discus Throw: Holding the Discus, Initial Stance Primary Swing, Turn,		
		Release and Recovery (Rotation in the circle).		
		A. Fundamental Skills		
		Kicking: Kicking the ball with inside of the foot, Kicking the ball		
	Football	with Full Instep of the foot, Kicking the ball with Inner Instep of the foot, Kicking the ball with Outer Instep of the foot and Lofted		
		Kick.		
5 th Semester		> Trapping: Trapping-the Rolling ball, and the Bouncing ball with sole of the foot.		
B24NCK593		 Dribbling: Dribbling the ball with Instep of the foot, Dribbling the ball with Inner and Outer Instep of the foot. Total-32 2 hours		
		➤ Heading: In standing, running and jumping condition.	2 hours / week	
		Throw-in: Standing throw-in and Running throw-in.		
		Feinting: With the lower limb and upper part of the body.		
		Tackling: Simple Tackling, Slide Tackling.		
		 Goal Keeping: Collection of Ball, Ballclearance-kicking, throwing and deflecting. 		
		Game practice with application of Rules and Regulations.		
		B. Rules and their interpretation and duties of officials.		
	Hockey	A. Fundamental Skills		
	Hockey	Passing: Short pass, Long pass, push pass, hit		
		Trapping.		
		Dribbling and Dozing.		
		Penalty stroke practice.		
		Penalty corner practice.		
		Tackling: Simple Tackling, Slide Tackling.		
		 Goal Keeping, Ball clearance-kicking, and deflecting. 		
		 Game practice with application of Rules and Regulations. 		
		B. Rules and their interpretation and duties of officials.		



		Relay Race: Starting, Baton Holding / Carrying, Baton Exchange in			
	Athletics				
	Track-Relays	between zone, and Finishing.			
	Jumps-Triple	Triple Jump: Approach Run, Take-off, Flight in the Hop, Step, Jump and			
		Landing.			
	Jump	Javelin Throw : Grip, Carry, and Recovery (3/5 Impulse stride).			
	Throws-Javelin	Release.			
	Throw				
		A. Fundamental Skills			
		➤ Batting-Forward Defense Stroke, Backward Defense Stroke, Off			
		Drive, On Drive, Straight Drive, Cover Drive, Square Cut.			
		Bowling-Out-swing, In-swing, Off Break, Leg Break and Googly.			
	CRICKET	Fielding: Catching - The High Catch, The Skim Catch, The Close			
		Catch and throwing at the stumps from different angles. Long			
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6 th Semester		Barrier and Throw, Short Throw, Long Throw, Throwing on the	Total-32 hours		
		Turn. 2 hours /			
B24NCK693		➤ Wicket Keeping			
		B. Rules and their interpretation and duties of officials.			
		A. Fundamental Skills			
		Player Stances-walking, extending walking, L stance, cat stance.			
		Grip – standard grip, choke grip. Batting – swing and bunt.			
	BASEBALL				
		Pitching.			
		Baseball: Slider, fast pitch, curve ball, drop ball, rise ball, change up,			
		knuckle ball, screw ball.			
		B. Rules and their interpretation and duties of officials.			



	Athletics	Combined Events: Heptathlon all the7 events	
	Combined Events-	Decathlon: All10Events	
	Heptathlon & Decathlon	Pole Vault : Approach Run, Planting the Pole, Take-off, Bar Clearance and	
		Landing.	
	Jumps- Pole	Hammer Throw: Holding the Hammer, Initial Stance Primary Swing,	
	Vault	Turn, Release and Recovery (Rotation in the circle).	
	Throws-Hammer		
	Throw		
		A. Fundamental Skills	
		Passing: Two hands Chest Pass, Two hands Bounce Pass, One hand	
		Base ball Pass, Side arm Pass, Overhead Pass, Hook Pass.	
		> Receiving: Two hand receiving, one hand receiving, Receiving in	
		stationary position, receiving while jumping and Receiving while	
	B 1 4 B	Running.	
	Basketball	> Dribbling: How to start dribble, drop dribble, High Dribble, Low	
7 th Semester		Dribble, Reverse Dribble, Rolling Dribble.	Total-32 hours
		> Shooting: Lay-up shot and its variations, one hand set shot, two	2 hours / week
B24NCK793		hands jump shot, Hook shot, Free Throw.	
		Rebounding: Defensive rebound and Offensive rebound.	
		> Individual Defence: Guarding the player with the ball and without	
		the ball, pivoting.	
		Game practice with application of Rules and Regulations.	
		B. Rules and their interpretation and duties of officials.	
		A. Fundamental skills	
		> Catching: one handed, two handed, with feet grounded and in	
		flight.	
		> Throwing (Different passes and their uses): One hand passes	
		(shoulder, high shoulder, underarm, bounce, lob), two hand passes	
		(Push, overhead and bounce).	
	Netball	> Footwork: Landing on one foot, landing on two feet, Pivot,	
		Running pass.	
		> Shooting: One hand, forward step shot, and back ward step shot.	
		> Techniques of free dodge and sprint, sudden sprint, sprint and	
		stop, sprinting with change at speed.	
		 Defending: Marking the player, marking the ball, blocking, inside 	
		the circle, outside the circle. Defending the circle edge against the	
		passing.	
		Intercepting: Pass and shot.	
		 Game practice with application of Rules and Regulations. 	
		B. Rules and their interpretation and duties of officials.	
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		A. Fund			
		Basic Knowledge: Various parts of the Racket and Grip.			
	Individual games	>	Service: Short service, Long service, Long-high service.		
	Shuttle Badminton	>	Shots: Over head shot, Defensive clear shot, Attacking clear shot,		
	Shuttle Dadininton		Drop shot, Net shot, Smash.		
		>	Game practice with application of Rules and Regulations.		
		B. Rule	s and their interpretation and duties of officials.		
		A. Fundamental skills			
		>	Basic Knowledge: Various parts of the Racket and Grip (Shake		
			Hand & Pen Hold Grip).		
	Table Tennis	>	Stance: Alternate & Parallel.		
	Tuble Tellins	>	Push and Service: Backhand & Forehand.		
		>	Chop: Backhand & Forehand.		
8 th Semester		>	Receive: Push and Chop with both Backhand & Forehand.		
		>	Game practice with application of Rules and Regulations.	Total-32 hours	
B24NCK893		B. Rule	2 hours / week		
		A. Func	lamental skills		
		>	Catching, Throwing and Ball control,		
		>	Goal Throws: Jump shot, Center shot, Dive shot, Reverse shot.		
	Hand ball	>	Dribbling: High and low.		
		>	Attack and counter attack, simple counter attack, counter attack		
			from two wings and center.		
		>	Blocking, Goal Keeping and Defensive skills.		
			Game practice with application of Rules and Regulations.		
			s and their interpretation and duties of officials.		
			lamental skills		
		>	Basic Knowledge: Various parts of the Racket and Grip.		
	Ball Badminton	>	Service: Short service, Long service, Long-high service.		
	Bail Badillilloli	>	Shots: Over head shot, Defensive clear shot, Attacking clear shot,		
			Drop shot, Net shot, Smash.		
		_ >	Game practice with application of Rules and Regulations.		
			s and their interpretation and duties of officials.		

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REFERENCES

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- 3. Petipus, et al. Athlete's Guide to Career Planning, Human Kinetics.
- 4. Dharma, P. N. Fundamentals of Track and Field, Khel Sahitya Kendra, New Delhi.
- 5. Jain, R. Play and Learn Cricket, Khel Sahitya Kendra, New Delhi.
- 6. Vivek Thani, Coaching Cricket, Khel Sahitya Kendra, New Delhi.
- 7. Saha, A. K. Sarir Siksher Ritiniti, Rana Publishing House, Kalyani.
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- 12. Jack Nagle, Power Pattern Of fences for winning basketball, Parker Publishing Co., New York. 13 Renu Jain, Play and Learn Basketball, Khel Sahitya Kendra, New Delhi.
- 13. Sally Kus, Coaching Volleyball Successfully, Human Kinetics.
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SEMESTER-III -& IV					
		YOGA			
		Category: NO	CMC		
Course Code	:	B24NCK394/494	CIE	:	50 Marks
Teaching Hours L: T: P	:	1:0:0	SEE	:	
Total Hours	:		Total	:	50 Marks
Credits	:		SEE Duration	:	

Semester	Course
	1) Introduction of Yoga, Aim and Objectives of yoga, Prayer
	2) Brief introduction of yogic practices for common man
	3) Rules and regulations
III Semester	4) Misconceptions of yoga
	5) Suryanamaskara
	6) Different types of Asanas
	a. Sitting
	b. Standing
	c. Prone line
	d. Supine line
	1) Patanjali's Ashtanga Yoga
	2) Suryanamaskara
	3) Different types of Asanas
IV Semester	a. Sitting
1 v Semester	b. Standing
	c. Prone line
	d. Supine line
	4) Kapalbhati
	5) Pranayama
	1) Patanjali's Ashtanga Yoga
	2) Surya namaskara
	3) Different types of Asanas
	a. Sitting
V Semester	b. Standing
	c. Proneline
	d. Supineline
	4) Kapalbhati
	5) Pranayama



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	1) Patanjali's Ashtanga Yoga
	2) Suryanamaskara
	3) Different types of Asanas
TH 6	a. Sitting
VI Semester	
	d. Supine line
	4) Kapalbhati
	5) Pranayama
	1) Patanjali's Ashtanga Yoga
	2) Suryanamaskara
	3) Different types of Asanas
VII Semester	a. Sitting
	b. Standing
	c. Prone line
	d. Supine line
	4) Kapalbhati
	5) Pranayama
	1) Patanjali's AshtangaYoga
	2) Suryanamaskara
	3) Different types of Asanas
	a. Sitting
VIII Semester	b. Standing
	c. Prone line
	d. Supine line
	4) Kapalbhati
	5) Pranayama
	6) Shat Kriyas

Notes:

- One Hour of Lectureisequalto1Credit
- One Hour of Tutorial is equal to 1Credit (Except Languages)
- Two Hours of Practical is equal to 1Credit
- SEE: Semester End Examination
- CIE: Continuous Internal Examination
- L+T+P: Lecture + Tutorial + Practical



Guidelines for Yoga Syllabus

Semester &	Course Title	Content	No. of Hours
Course Code			
	Introduction of Yoga, Aim and Objectives	Yoga, its origin, history and development.	
	of yoga, Prayer	Yoga, its meaning, definitions.	
		Different schools of yoga, importance of prayer	
	Brief introduction of yogic practices for	Yogic practices for common man to promote	
	common man	positive health	
	Rules and regulations	Rules to be followed during yogic practices by	
		practitioner	
	Misconceptions of yoga	Yoga its misconceptions,	
3 rd Semester		Difference between yogic and non yogic	
		practices.	Total-32 hours
B24NCK394	Suryanamaskara	Suryanamaskar prayer and its meaning, Need,	2 hours / week
		importance and benefits of Suryanamaskar12	
		count, 2 rounds	
	Different types of Asanas	Asana, Need, importance of Asana. Different	
	Sitting	types of asana. Asana its meaning by name,	
	Padmasana	technique, precautionary measures and benefits	
	Vajrasana	of each asana.	
	Standing		
	Vrikshana		
	Trikonasana		
	Prone line		
	Bhujangasana		
	Shalabhasana		
	Supine line		
	Utthitadvipadasana		
	> Ardhahalasana		



	Patanj	ali's Ashtanga Yoga	Patanjali's Ashtanga Yoga its need and	
	>	Yama	importance.	
	>	Niyama	Yama: Ahimsa, satya, asteya, brahmacarya,	
			aparigraha.	
			Niyama: shoucha, santosh, tapa, svaadhyaya,	
			Eshvara pranidhan	
	Surya	namaskara	Suryanamaskar 12 count, 4 rounds	
	Differ	ent types of Asanas	Asana, Need, importance of Asana. Different	
	Sitting		types of asana. Asana its meaning by name,	
	>	Sukhasana	technique, precautionary measures and benefits	
	>	Paschimottanasana	of each asana.	Total-32 hours
4 th Semester	Standi	ng		2 hours / week
	>	Ardhakati Chakrasana		2 Hours / Week
B24NCK494	>	Parshva Chakrasana		
	Prone	line		
	>	Dhanurasana		
	Supine	line		
	>	Halasana		
	>	Karna Peedasana		
	Kapala	abhati	Meaning, importance and benefits of	
			Kapalabhati.	
			40 strokes/min, 3 rounds	
	Pranay	yama	Meaning, Need, importance of Pranayama.	
	>	Suryanuloma-Viloma	Different types. Meaning by name, technique,	
	>	Chandranuloma-Viloma	precautionary measures and benefits of each	
	>	Suryabhedana	Pranayama	
	>	ChandraBhedana		
	>	Nadishodhana		



	Ashtanga Yoga	Patanjali's Ashtanga Yoga its need and	
	> Asana	importance.	
	Pranayama		
	Suryanamaskara	Suryanamaskar 12 count, 6 rounds	
	Different types of Asanas	Asana, Need, importance of Asana. Different	
	Sitting	types. Asana its meaning by name, technique,	
	Ardha Ushtrasana	precautionary measures and benefits of each	
	Vakrasana	asana.	Total-32 hours
5 th Semester	Standing		2 hours / week
	Urdhva Hastothanasana		
B24NCK594	Hastapadasana		
	Prone line		
	Padangushtha Dhanurasana		
	Supine line		
	Sarvangasana		
	Chakraasana		
	Kapalabhati	Revision of practice 50 strokes/min, 3 rounds	
	Pranayama	Meaning, Need, importance of Pranayama.	
	Surya Bhedana	Different types. Meaning by name, technique,	
	Ujjayi	Precautionary measures and benefits of each	
		Pranayama.	



	Ashtanga Yoga	Patanjali's Ashtanga Yoga its need and	
	Pratyahara	importance.	
	Dharana		
	Suryanamaskara	Revisionofpractice12count, 8 rounds	
	Different types of Asanas	Asana, Need, importance of Asana.	
	Sitting	Different types, Asana by name, technique,	
	AakarnaDhanurasana	precautionary measures and benefits of each	
	YogamudrainPadmasana	asana.	T 1 22 1
6 th Semester	Standing		Total-32 hours
	ParivrittaTrikonasana		2 hours / week
B24NCK494	Utkatasana		
	Prone line		
	PoornaBhujangasana/		
	Rajakapotasana		
	Supine line		
	Navasana/Noukasana		
	Pavanamuktasana		
	Kapalabhati	Revision of practice 60 strokes/min, 3 rounds	
	Pranayama	Meaning, Need, importance of Pranayama.	
	> Sheetali	Different types. Meaning by name, technique,	
	> Sheektari	precautionary measures and benefits of each	
		Pranayama	



	Ashtanga Yoga	Patanjali's Ashtanga Yoga its need and	
	Dhyana (Meditation)	importance.	
	> Samadhi		
	Suryanamaskara	Revision of practice 12count, 10rounds.	
	Different types of Asanas	Asana, Need, Importance of Asana.	
	Sitting	Different types, Asana by name, technique,	
	 Vibhakta Paschimottanasana 	precautionary measures and benefits of each	
	Yogamudra inVajrasana	asana.	
7 th Semester	Standing		T. (1 22 1
	Parshvakonasana		Total-32 hours
B24NCK494	Ekapadbaddhapadmottanasana		2 hours / week
	Prone line balancing		
	Mayurasana		
	Supine line		
	Sarvangasana		
	Setubandhasana		
	Shavasanaa (Relaxation		
	poisture)		
	Kapalabhati	Revision of practice 80 strokes/min, 3 rounds	
	Pranayama	Meaning, Need, importance of Pranayama.	
	> Bhastrika	Different types. Meaning by name, technique,	
	> Bhramari	Precautionary measures and benefits of each	
		Pranayama.	



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	Surya	namaskara	Revision of practice 12count, 12 rounds.	
	Differe	ent types of Asanas	Asana, Need, importance of Asana.	
	Sitting		Different types, Asana by name, technique,	
	>	Bakasana	precautionary measures and benefits of each	
	>	Hanumanasana	asana.	
	>	Ekapada Rajakapotasana		
	Standin	ng		
	>	Vatayanasana		
	>	Garudasana		
8 th Semester	>	Natarajasana		Total-32 hours
B24NCK494	Balanc	ing		2 hours / week
	>	Sheershasana		
	Supine	line		
	>	1.Setubandha Sarvangasana		
	>	Shavasanaa (Relaxation		
		poisture)		
	Kapala	bhati	Revision of practice 100 strokes/min, 3 rounds.	
	Pranay	ama	Revision of practices	
	>	Nadishodhana		
	>	Ujjai		
	>	Bhramari		
	ShatKı	iyas	Meaning, Need, importance of Shatkriya.	
	>	Jalaneti & sutraneti	Different types. Meaning by name, technique,	
	>	Nouli (only for men)	precautionary measures and benefits of each	
	>	Sheetkarma Kapalabhati	Kriya	

Book for Reference:

- Swami Kuvulyananda: Asma (Kavalyadhama, Lonavala)
- Tiwari, O P: Asana Why and How
- Ajitkumar: Yoga Pravesha (Kannada)
- Swami Satyananda Saraswati: Asana Pranayama, Mudra, Bandha (Bihar School of yoga, Munger)



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- Swami Satyananda Saraswati: Surya Namaskar (BiharSchoolofyoga,Munger)
- Nagendra H R: The art and science of Pranayama
- Tiruka: Shatkriyegalu (Kannada)
- Iyengar B K S: Yoga Pradipika (Kannada)
- Iyengar B K S: Light on Yoga (English)



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SEMESTER-III & IV					
MUSIC Category: NCMC					
Course Code	:	B24NCK395/495	CIE	:	50 Marks
Teaching Hours L : T : P	:	1:0:0	SEE	:	
Total Hours	:		Total	:	50 Marks
Credits	:	-	SEE Duration	:	

	Course Objectives
1.	Identify the major traditions of Indian music, both through notations and aurally.
2.	Analyze the compositions with respect to musical and lyrical content
3.	Demonstrate an ability to use music technology appropriately in a variety of setting.

Module – 1	No. of Hours
Preamble: Contents of the curriculum intend to promote music as language to develop an analytical,	
Creative, and intuitive Understanding. For this the student must experience music through study and	
direct participation in improvisation and composition. Origin of the Indian Music: Evolution of the	3
Indian music system, Understanding of Shruthi, Nada, Swara, Laya, Raga Tala, Mela.	
Module – 2	No. of Hours
Compositions: Introduction to the types of composition in Carnatic Music- Geethe, Jath i, Swara,	
Swarajathi, Varna, Krithi, and Thillana, Notation System.	3
Module – 3	No. of Hours
Composers: Biography and contributions of Purandaradasa, Thyagaraja, Mysoro Vasudevacharya.	3
Module – 4	No. of Hours
Music Instruments: Classification and construction of string instruments, wind instruments,	
percussion instruments, Idiophones (Ghana Vaadya), Examples of each class of Instrum ents	3
Module – 5	No. of Hours
Abhyasa Gana: Singing the swara exercises (Sarale Varase Only), Botation writing for Sarale	
Varase and Suladi Saptha Tala (Only in Mayamalavagowla Raga), Singing 4 Geethe in M alahari,	14
and one jathi Swara, One Krithi in a Mela raga	

Course	Course Outcomes: At the end of the course, the students will be able to		
CO1	O1 Discuss the Indian system of music and relate it to other genres (Cognitive DOmain)		
CO2	Experience the emotions of composer and develop empathy (Affective Domain)		
CO3	Respond to queries on various patterns in a composition (Psycho Motor Domain)		

Text I	Text Books			
1.	Vidushi Vasantha Madhavi, "Theory of Music", Prism Publication, 2007.			
2.	T Sachidevi and T Sharadha (Thirumalai Sisters), Karnataka Sangeetha Dharpana- Vol. 1 (English), Shreenivaas Prakaashana, 2018.			

Reference	ee Text Books
1.	Lakshminarayana Subramaniam, Viji Subramanaim, "Classical Music of India: A Practical Guige", Tranqueber 2018.
2.	R. Rangaramanuja Ayyangar, "History of South Indian (Carnatic) Music", Vipanci Charitable Trust; Third edition, 2019.
3.	Ethel Rosenthal, "The Story of Indian Music and Its Istruments: A Study of the Present and a Record of the Past", Pilgrims Publishing, 2007.
4.	Carnatic Music, National Institute of Open Schooling, 2019.



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SEMESTER-IV								
UNIVERSAL HUMAN VALUES Category: UHV								
Course Code	:	B24UHK407	CIE	:	50 Marks			
Teaching Hours L : T : P	:	1:0:0	SEE	:	50 Marks			
Total Hours	:	15(T)	Total	:	100 Marks			
Credits	:	1	SEE Duration	:	1 Hr			

	Course Objectives							
1.	To help the students appreciate the essential complementarity between "VALUES" and SKILLS" to ensure sustained happiness and prosperity which are the core aspirations of all human beings.							
2.	To facilitate the development of a Holistic perspective among students towards life and profession as well as towards happiness and prosperity based on a correct understanding of the Human reality and the rest of existence. Such a holistic perspective forms the basis of Universal Human Value-based living in a natural way.							
3.	To highlight plausible implications of such a Holistic understanding in terms of ethical human conduct, trustful and mutually fulfilling human behavior and mutually enriching interaction with Nature.							
4.	This course is intended to provide a much-needed orientation input in value education to the young enquiring minds.							

Module – 1: Introduction to Value Education						
Right Understanding, Relationship and Physical Facility (Holistic Development and the Role of						
Education) Understanding Value Education, Self-exploration as the Process for Value Education,						
Continuous Happiness and Prosperity – the Basic Human Aspirations, Happiness and Prosperity –						
Current Scenario, Method to Fulfil the Basic Human Aspirations						
Module – 2: Harmony in the Human Being	No. of Hours					
Understanding Human being as the Co-existence of the Self and the Body, Distinguishing between the						
Needs of the Self and the Body, The Body as an Instrument of the Self, Understanding Harmony in						
the Self, Harmony of the Self with the Body, Programme to ensure self-regulation and Health.	3					
Module – 3: Harmony in the Family and Society						
Harmony in the Family – the Basic Unit of Human Interaction, 'Trust' – the Foundational Value in						
Relationship, 'Respect' – as the Right Evaluation, Other Feelings, Justice in Human-toHuman						
Relationship, Understanding Harmony in the Society, Vision for the						
Universal Human Order						
Module – 4: Harmony in the Nature/Existence						
Understanding Harmony in the Nature, Interconnectedness, self-regulation and Mutual Fulfilment						
among the Four Orders of Nature, Realizing Existence as Co-existence at All Levels, The Holistic	3					
Perception of Harmony in Existence.						
Module – 5: Implications of the Holistic Understanding – a Look at Professional Ethics						
Natural Acceptance of Human Values, Definitiveness of (Ethical) Human Conduct, A Basis for						
Humanistic Education, Humanistic Constitution and Universal Human Order, Competence in						
Professional Ethics Holistic Technologies, Production Systems and Management Models-Typical	3					
Case Studies, Strategies for Transition towards Value-based Life and Profession						

Course Outcomes: At the end of the course, the students will be able to										
CO1	They would become more responsible in life, and in handling problems with sustainable solutions,									
	while keeping human relationships and human nature in mind.									
CO2	They would have better critical ability.									
CO3	They would also become sensitive to their commitment towards what they have understood (human									
	values, human relationship and human society).									
CO4	It is hoped that they would be able to apply what they have learnt to their own self in different									
	day-to-day settings in real life, at least a beginning would be made in this direction									

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Text Boo	ks						
1.	R R Gaur, R Asthana, G P Bagaria – "The Textbook A Foundation Course in Human Values and Professional Ethics, R R Gaur, R Asthana, G P Bagaria, 2nd Revised Edition, Excel Books, New Delhi, 2019. ISBN 978-93-87034-47-1"						
2.	R R Gaur, R Asthana, G- "The Teacher"s Manual for A Foundation Course in Human Values and Professional Ethics".						
Reference	e Text Books						
1.	A Nagaraj, Jeevan Vidya Prakashan, Amar kantak – "Jeevan Vidya:1999".						
2.	A.N. Tripathi – "Human Values, New Age Intl. Publishers, New Delhi, 2004".						
3.	Mohandas Karamchand Gandhi – "The Story of Stuff (Book), The Story of My Experiments with Truth - by Mohandas Karamchand Gandhi".						

Web links and Video lectures (e-Resources)

Value Education websites,

https://www.uhv.org.in/uhv-ii,

http://uhv.ac.in,

http://www.uptu.ac.in

Story of Stuff,

http://www.storyofstuff.com

ASSESSMENT DETAILS (BOTH CIE AND SEE)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing mark for the CIE is 40% of the maximum marks (20 marks out of 50) and for the SEE minimum passing mark is 35% of the maximum marks (18 out of 50 marks). A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course if the student secures a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.

CONTINUOUS INTERNAL EVALUATION (CIE)

CIE FOR THE THEORY:

- 1. Three tests each of 50 marks, after the completion of the syllabus 40%, 70% and 80% respectively.
- 2. Average of best two internal assessment tests each of 50 marks, scale down to 30 marks.
- 3. Any two assessment methods as per regulations i.e. Two assignments / Two Quizzes/ Weekly test / project work for 40 marks, scaled down to 20 marks.
- 4. Total marks scored (30+20 = 50 marks).
- 5. The minimum passing mark for the CIE is 40% of maximum marks (20 marks out of 50).

SEMESTER END EXAMINATION (SEE)

SEE paper shall be set for 50 questions, each of the 01 marks. The pattern of the question paper is MCQ (multiple choice questions). The time allotted for SEE is 01 hour. The student has to secure a minimum of 35% of the maximum marks meant for SEE.

CO-PO Mapping

PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO												
CO1	1	-	-	-	-	-	1	-	1	1	-	1
CO2	1	-	-	-	-	-	-	1	-	1	-	1
CO3	1	-	-	-	-	-	-	1	-	1	-	1
CO4	1	-	-	-	-	-	2	-	2	1	-	1
CO5	1	-	-	-	-	-	2	2	1	2	-	1

Level 3 - High, Level 2 - Moderate, Level 1 - Low