22UI	HS001M		Credit : 00
L:T:P :0:0:2		YOGA	CIE Marks: 50
Total Hours Per Semester :26		(COMMON TO ALL BRANCHES)	SEE Marks : 00
Semester		Course	
IIISem		of yoga a	
IVSem	 Patanjali'sAsht Suryanamaskar Different types a. Sitting b. Standing c. Proneline d. Supineline 4) Pranayama 5) Kapalbhati 	ca of Asanas	
VSem VI Sem	 1) Patanjali'sAsht 2) Suryanamaskar 3) Differenttypes a. Sitting b. Standing c. Proneline d. Supineline 4) Kapalbhati 5) Pranayama 1) Patanjali's Ash 2) Suryanamaskar 3) Different types a. Sitting b. Standing c. Proneline d. Suryanamaskar d. Standing c. Proneline d. Supineline 	ra of Asanas tangaYoga ra	

Blown-UpSyllabus

Semester	Title	Content	No.of Hours
	Introduction of Yoga, Aim and Objectives of yoga,Prayer	Yoga,itsorigin,history and development.Yoga, its meaning, definitions. Different schools of yoga,importance of prayer	
	Brief introduction of yogic practices for commonman	Yogic practices for common man to promote Positive health	
	Rules and regulations	Rules to be followed during yogic practices by practitioner	Total
3rdSemest er	Misconceptions of yoga	Yoga its misconceptions, Difference between yogic and non yogic practices	26hrs 2hrs/wee k
	Suryanamaskara	Suryanamaskar prayer and its meaning, Need, importance and benefits of Suryanamaskar 12 count, 2 rounds	
	Different types of Asanas a. Sitting 1.Padmasana 2.Vajrasana b. Standing1.Vrikshana 2.Trikonasana c. Proneline1.Bhujangasana 2.Shalabhasana d. Supineline1.Utthitadvipadasana 2.Ardhahalasana	Asana, Need, importance of Asana. Different types of asana. Asana its meaning by name, technique precautionary measures and benefits of each asana	
⊿thSemeste	Patanjali'sAshtangaYoga 1. Yama 2. Niyama	Patanjali'sAshtangaYoga its need and importance. Yama:Ahimsa,satya,asteya, brahmacarya,aparigraha Niyama:shoucha,santosh,tapa,svaad hyaya,Eshvarapranidhan	
r r	Suryanamaskara Different types of Asanas a. Sitting1.Sukhasana 2.Paschimottanasana b. Standing1.ArdhakatiChakrasana 2. ParshvaChakrasana c. Proneline 1.Dhanurasana d. Supineline1.Halasana 2.KarnaPeedasana	Suryanamaskar12count 4rounds Asana, Need, importance of Asana. Differenttypes of asana.Asana its meaning by name, technique, precautionary measures and benefits of each asana	Total 26hrs
	Kapalabhati	Meaning, importance and benefits of Kapalabhati. 40 strokes/min3rounds	2hrs/ Week
	Pranayama–1. 1. Suryanuloma –Viloma 2. Chandranuloma-Viloma 3. Suryabhedana 4. ChandraBhedana 5. Nadishodhana	Meaning, Need, importance of Pranayama.Differenttypes.Meaning byname,technique,precautionary measures and benefits of each Pranayama	

	AshtangaYoga	Patanjali'sAshtangaYogaitsnee	
	3.Asana 4.Pranayama	dandimportance.	
	5.Pratyahara		
	6.Dharana		
	Suryanamaskara	Suryanamaskar 12count 6rounds	
5thSemeste	Different types of Asanas	Asana, Need, importance of Asana.	
J r	a. Sitting1. ArdhaUshtrasana	Differenttypes.Asanaitsmeaningbyn	Total
I	2.Vakrasana	ame,technique,precautionary	26hrs
	b. Standing 1.UrdhvaHastothanasana	measures and benefits of eachasana	2hrs/week
	2.Hastapadasana c. Proneline 1.Padangushtha		
	2. Dhanurasana		
	d. Supineline 1.Sarvangasana		
	2.Chakraasana		
	Kapalabhati	Revision of practice 50strokes/min	
	-	3rounds -	
	Pranayama–1.SuryaBhedana	Meaning, Need, importance of	
	2.Ujjayi	Pranayama.Differenttypes.Meaning	
		byname,technique,	
		Precautionary measures and benefits of each Pranayama	
		benefits of each Franayanna	
	AshtangaYoga 7 Dhyang(Maditation)	Patanjali's Ashtanga Yoga its	
	7.Dhyana(Meditation) 8.Samadhi	need and importance.	
	Suryanamaskara	Revision of practice 12 count 8 rounds	-
6 th	Different types of Asanas	Asana,Need,importance of Asana.	
Semester	a. Sitting1. AakarnaDhanurasana	Different types,	
Semester	2. YogamudrainPadmasana	Asana by name, technique,	
	b. Standing 1.Parivritta	precautionary erasures and	Total
	2.Trikonasana	benefits of each asana	26hrs2hrs/
	3.Utkatasana		week
	c. Proneline1.PoornaBhujangasana		
	/Rajakapotasana		
	d. Supineline1.Navasana/Noukasana 2.Pavanamuktasana		
	Kapalabhati	Revision of practice 60 strokes/min	
		3rounds -	_
	Pranayama– 1.Sheetali 2.Sheektari	Meaning, Need, importance of	
	3.Bhastrika	Pranayama.Different types.Meaning	
	4.Bhramari	by name, technique, precautionary	
		measures and benefits of each	
	ShatKriyas	Pranayama	-
	1. Jalaneti&sutraneti	Meaning, Need, importance of	
		Shatkriya.Differenttypes.Mean	
	2. Nouli(onlyformen)	ingbyname,technique,precautio	
	3. SheetkarmaKapalabhati	nary measures and benefits of	
		each Kriya	
		Cacii Milya	

BookforReference:

1. SwamiKuvulyananda :Asma(Kavalyadhama,Lonavala) :AsanaWhyandHow 2. Tiwari,OP 3. Ajitkumar : YogaPravesha(Kannada) 4. SwamiSatyanandaSaraswati :AsanaPranayama,Mudra,Bandha (BiharSchoolof yoga,Munger) :SuryaNamaskar 5. SwamiSatyanandaSaraswati (BiharSchoolof yoga,Munger) 6. NagendraHR :Theart and science of Pranayama 7. Tiruka :Shatkriyegalu(Kannada) :YogaPradipika(Kannada) 8. IyengarBKS :LightonYoga(English) 9. IyengarBKS : Samagra Yoga Darshini(Kannada) 10. S.K.Kuppasta

Scheme of Assessment:

WEIGHTAGE	100%
	CIE
At the End of 3 rd Semester	25
At the End of 4 th Semester	25
At the End of 5 th Semester	25
At the End of 6 th Semester	25
TOTALMARKS FOR THECOURSE	100

Note: 1. No Semester End Examinations.

22UHS002M		Credit: 00
L:T:P :0:0:2	National Service Scheme	CIE Marks : 50
Total Hours Per Semester :26	(NSS)	SEE Marks :00
	(COMMON TO ALL BRANCHES)	

CorseObjectives:NationalServiceScheme(NSS)willenablethestudentsto:

Course objectives: National Service Scheme (NSS) will enable the students to:

- 1. Understand the community in general in which they work.
- 2. Identify the needs and problems of the community and involve them in problem –solving.
- 3. Develop among themselves a sense of social & civic responsibility & utilize their knowledgein finding practical solutions to individual and community problems.
- 4. Develop competence required for group-living and sharing of responsibilities & gainin 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 in general.

		Contents	26 Hours
1	0		

1. Organic farming, Indian Agriculture (Past, Present and Future) Connectivity for marketing.

2. Waste management– Public, Private and Govt organization, 5 R's.

3. Setting of the information imparting club for women leading to contribution in social and economic issues.

4. Water conservation techniques – Role of different stakeholders– Implementation.

5. Preparing an actionable business proposal for enhancing the village income and approach for implementation.

6. Helping local schools to achieve good results and enhance their enrolment in Higher/ technical/ vocational education.

7. Developing Sustainable Water management system for rural areas and implementation approaches.

8. Contribution to any national level initiative of Government of India. Foreg. Digital India, Skill India, Swachh Bharat,

Atmanirbhar Bharath, Make in India, Mudra scheme, Skill development programs etc.

9. Spreading public awareness under rural outreach programs. (minimum5 programs).

10. Social connect and responsibilities.

11. Plantation and adoption of plants. Know your plants.

12. Organize National integration and social harmony events /workshops /seminars. (Minimum 02 programs).

13. Govt. school Rejuvenation and helping them to achieve good infrastructure.

NOTE:

- Student/s in individual or in a group Should select any one activity in the beginning of each semester till end of that respective semester for successful completion as per the instructions of NSS officer with the consent of HOD of the department.
- At the end of every semester, activity report should be Submitted for evaluation.

Course outcomes (Course Skill Set):

At the end of the course, the student will be able to:

- CO1: Understand the importance of his / her responsibilities towards society.
- CO2: Analyse 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.
- CO5: Develop capacity to meet emergencies and natural disasters & practice national integration and social harmony in general.

ASSESSMENTANDEVALUATIONPATTERN

WEIGHTAGE	100%
	CIE
At the End of 3 rd Semester	25
At the End of 4 th Semester	25
At the End of 5 th Semester	25
At the End of 6 th Semester	25
TOTALMARKS FOR THECOURSE	100

Blown-Up Syllabus

Semester	Topics / Activities to be Covered
3 rd Semester	 Organic farming, Indian Agriculture (Past, Present and Future) Connectivity for marketing. Waste management– Public, Private and Govt organization, 5 R's. Setting of the information imparting club for women leading to contribution in social and economic issues.
4 th Semester	 4. Water conservation techniques – Role of different stakeholders– Implementation. 5. Preparing an actionable business proposal for enhancing the village income and approach for implementation. 6. Helping local schools to achieve good results and enhance their enrolment in Higher/ technical/ vocational education.
5 th Semester	 7. Developing Sustainable Water management system for rural areas and implementation approaches. 8. Contribution to any national level initiative of Government of India. Foreg. Digital India, Skill India, Swachh Bharat, Atmanirbhar Bharath,Make in India, Mudra scheme, Skill development programs etc. 9. Spreading public awareness under rural outreach programs.(minimum5 programs). 10. Social connect and responsibilities.
6 th Semester	 11. Plantation and adoption of plants. Know your plants. 12. Organize National integration and social harmony events /workshops /seminars. (Minimum 02 programs). 13. Govt. school Rejuvenation and helping them to achieve good infrastructure.

Distribution of Activities - Semester wise from 3rd to 6th semester

Sl No	Торіс	Group size	Location	Activity execution	Reporting	Evaluation Of the Topic
1.	Organic farming, Indian Agriculture (Past, Present and Future) Connectivity for marketing.	May be individ ual or team	Farmers land/Villages/ roadside/ community area/ College campus etc	Site selection /proper consultation/Cont inuous monitoring/ Information board	Report should be submitted by individual to the concerned evaluation authority	Evaluation as per the rubrics Of scheme and syllabus by NSS officer
2.	Waste management– Public, Private and Govt organization, 5 R's.	May be individ ual or team	Villages/ City Areas / Grama panchayat/ public associations/Gover nment Schemes officers/ campus etc	Site selection /proper consultation/Cont inuous monitoring/ Information board	Report should be submitted by individual to the concerned evaluation authority	Evaluation as per the rubrics Of scheme and syllabus by NSS officer
3.	Setting of the information imparting club for women leading to contribution in social and economic issues.	May be individ ual or team	Women empowerment groups/ Consulting NGOs & Govt Teams / College campus etc	Group selection/proper consultation/Cont inuous monitoring/ Information board	Report should be submitted by individual to the concerned evaluation authority	Evaluation as per the rubrics Of scheme and syllabus by NSS officer
4.	Water conservation techniques – Role of different stakeholders– Implementation.	May be individ ual or team	Villages/ City Areas / Grama panchayat/ public associations/Gover nment Schemes officers/ campus etc	site selection / proper consultation/Cont inuous monitoring/ Information board	Report should be submitted by individual to the concerned evaluation authority	Evaluation as per the rubrics Of scheme and syllabus by NSS officer
5.	Preparing an actionable business proposal for enhancing the village income and approach for implementation.	May be individ ual or team	Villages/ City Areas / Grama panchayat/ public associations/Gover nment Schemes officers/ campus etc	Group selection/proper consultation/Cont inuous monitoring/ Information board	Report should be submitted by individual to the concerned evaluation authority	Evaluation as per the rubrics Of scheme and syllabus by NSS officer
6.	Helping local schools to achieve good results and enhance their enrolment in Higher/ technical/ vocational	May be individ ual or team	Local government / private/ aided schools/Governmen t Schemes officers/ etc	School selection/proper consultation/Cont inuous monitoring/ Information board	Report should be submitted by individual to the concerned evaluation authority	Evaluation as per the rubrics Of scheme and syllabus by NSS officer

	education.					
7.	Developing Sustainable Water management system for rural areas and implementation approaches.	May be individ ual or team	Villages/ City Areas / Grama panchayat/ public associations/Gover nment Schemes officers/ campus etc	site selection/proper consultation/Cont inuous monitoring/ Information board	Report should be submitted by individual to the concerned evaluation authority	Evaluation as per the rubrics Of scheme and syllabus by NSS officer
8.	Contribution to any national level initiative of Government of India. For eg. Digital India, Skill India, Swachh Bharat, Atmanirbhar Bharath, Make in India, Mudra scheme, Skill development programs etc.	May be individ ual or team	Villages/ City Areas / Grama panchayat/ public associations/Gover nment Schemes officers/ campus etc	Group selection/proper consultation/Cont inuous monitoring / Information board	Report should be submitted by individual to the concerned evaluation authority	Evaluation as per the rubrics Of scheme and syllabus by NSS officer
9.	Spreading public awareness under rural outreach programs.(minimu m5 programs). ///// Social connect and responsibilities.	May be individ ual or team	Villages/ City Areas / Grama panchayat/ public associations/Gover nment Schemes officers/ campus etc	Group selection/proper consultation/Cont inuous monitoring / Information board	Report should be submitted by individual to the concerned evaluation authority	Evaluation as per the rubrics Of scheme and syllabus by NSS officer
10.	Plantation and adoption of plants. Know your plants.	May be individ ual or team	Villages/ City Areas / Grama panchayat/ public associations/Gover nment Schemes officers/ campus etc	Place selection/proper consultation/Cont inuous monitoring / Information board	Report should be submitted by individual to the concerned evaluation authority	Evaluation as per the rubrics Of scheme and syllabus by NSS officer
11.	Organize National integration and social harmony events /workshops /seminars. (Minimum 02 programs).	May be individ ual or team	Villages/ City Areas / Grama panchayat/ public associations/Gover nment Schemes officers/ campus etc	Place selection/proper consultation/Cont inuous monitoring / Information board	Report should be submitted by individual to the concerned evaluation authority	Evaluation as per the rubrics Of scheme and syllabus by NSS officer

12.	Govt. school Rejuvenation and helping them to achieve good infrastructure.	May be individ ual or team	Villages/ City Areas / Grama panchayat/ public associations/Gover nment Schemes officers/ campus etc	Place selection/proper consultation/Cont inuous monitoring / Information board	be submitted	Evaluation as per the rubrics Of scheme and syllabus by NSS officer
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Pedagogy – Guidelines, it may differ depending on local resources available for the study as well as environment and climatic differences as well as location time of execution.

Plan of Action (Execution of Activities For Each Semester)

SI.N	Practice Session Description
0	
1	Lecture session by NSS Officer
2	Students Presentation on Topics
3	Presentation - 1, Selection of topic, PHASE - 1
4	Commencement of activity and its progress - PHASE - 2
5	Execution of Activity
6	Execution of Activity
7	Execution of Activity
8	Execution of Activity
9	Execution of Activity
10	Case study based Assessment, Individual performance
11	Sector wise study and its consolidation
12	Video based seminar for 10 minutes by each student At the end of semester with
	Report.

22UHS003M	PHYSICAL EDUCITION ANDSPORTS	Credit: 00
L:T:P :0:0:2	(PE)	CIE Marks: 50
Total Hours Per Semester :26	(COMMON TO ALL BRANCHES)	SEE Marks: 00

Semester	Course
IIISem	FitnessComponents
	Kabaddi/KhoKho
IVSem	Athletics
	Volleyball/Throwball
	/Football/Netball/Basketball
V Sem	Athletics
	Hockey /Cricket/Baseball
VISem	IndividualGames
	Handball/Badminton

Blown-Up Syllabus

Semeste r	CourseTitle	Content	No.ofHo urs
	FitnessComponents	Meaning and Importance, Fit India Movement, Definition of fitness,	
	SpeedStrengthEnd	Components of fitness, Benefits of fitness, Types of fitness and Fitness	
	uranceAgilityFlexi	tips.	
	bility.	PracticalComponents:Speed,Strength,Endurance,Flexibility,andAgilit	Total26
3 rd Sem		y y	
	кнокно	A.Fundamentalskills1. Skills in Chasing : Siton the box (Parallel &Bullettoe method),Getupfromthebox(Proximal& Distalfootmethod),GiveKho(Simple,Early,Late&Judgment),PoleTurn,Pole	
		 Dive, Tapping, Hammering, Rectification of foul. Skills in running: Chain Play, Ring play and Chain & Ring mixed play. Game practice with application of Rules and Regulations. B. Rules and their interpretations and duties of the officials. 	
	KABADDI	 A.Fundamentalskills Skills in Raiding: Touching with hands, Use of leg-toe touch, squatlegthrust, sidekick, mulekick, arrowflykick, 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. Additional skills in raiding : Escaping from various holds, Techniques of escaping from chain formation, of fense and defense. Game practice with application of Rules and Regulations. 	

	AthleticsTrack-Sprints	TrackEvents	
		Starting Techniques: Standing start and Crouch start(its variations)use of	
4 th Sem	Throws-ShotPut	Starting Block.	
		Acceleration with proper running techniques.	
		Finishing technique: RunThrough, Forward Lunging and Shoulder	
		Shrug. Long Jump: ApproachRun,Take-off,Flight in the	
		air(HangStyle/HitchKick)andLanding	Total26h
		Shotput: Holding the Shot,Placement, InitialStance,Glide, Delivery Stanceand	rs
		Recovery(PerryO'BrienTechnique	15
	<u>Athletics</u> Track-	110Mtrsand 400Mtrs:	2hrs/we
	110&400MtrsHurdles	HurdlingTechnique:LeadlegTechnique,TraillegTechnique,SideHurdli	ek
	Jumps-HighJump	ng,Over the Hurdles Crouch start(itsvariations)use of Starting Block.	
	Throws-DiscussThrow	Approach to First Hurdles, InBetween Hurdles, LastHurdlestoFinishing.	
		Highjump : ApproachRun, Take-off, BarClearance(Straddle) and	
		Landing. Discus InitialStancePrimarySwing Turn	
		DiscusThrow :Holding the Discus, InitialStancePrimarySwing,Turn, ReleaseandRecovery(Rotationinthecircle).	
		A.Fundamentalskills	
		1. Service:Underarmservice,Side	
	VOLLEYBALL	armservice, Tennisservice, Floatingservice.	
		2. Pass:Underarmpass, Overhead pass.	
		3. SpikingandBlocking.	
		4. GamepracticewithapplicationofRulesandRegulations	
		B.Rulesandtheirinterpretationanddutiesofofficials.	
		A. Fundamentalskills:	
	THROWBALL	Overhandservice, Sidearmservice, two handcatching, one hand overheadr	
		eturn,sidearmreturn.	
		B. Rulesandtheirinterpretationsanddutiesof officials	
		A. FundamentalSkills	
	FOOTBALL	1. Kicking: Kicking the ball with inside of the foot, Kicking	
	FUUIBALL	theball with Full Instepofthefoot, Kickingtheball with InnerInstep ofthefoot, KickingtheballwithOuterInstep	
		ofthefootandLoftedKick.	
		2. Trapping:Trapping- theRollingball,andtheBouncingballwith soleofthefoot.	
		3. Dribbling:Dribblingtheballwith Instepofthefoot,	
		DribblingtheballwithInnerandOuterInstepofthefoot.	
		4. Heading: Instanding, running and jumping condition.	
		5. Throw-in:Standingthrow-inandRunningthrow-in.	
		6. Feinting: Withthelowerlimbandupperpartof the body.	
		7. Tackling:SimpleTackling,SlideTackling.	
		8. GoalKeeping:CollectionofBall,Ballclearance-	
		kicking, throwing and deflecting.	
		9. Gamepractice with application of Rules and Regulations.	
		B. Rulesandtheirinterpretationanddutiesofofficials.	

	A. FundamentalSkills
BASKETBALL	 Passing:TwohandChestPass, TwohandsBounce Pass,OnehandBaseballPass,SidearmPass,Overhead Pass,HookPass. Receiving:Twohandreceiving,Onehandreceiving, Receivinginstationaryposition,Receivingwhile JumpingandReceivingwhileRunning. Dribbling:Howtostartdribble,dropdribble,High Dribble,LowDribble,ReverseDribble,Rolling Dribble. Shooting:Lay-upshot anditsvariations,One hand Setshot,Two handsjumpshot,Hookshot,FreeThrow. Rebounding:DefensivereboundandOffensiverebound. IndividualDefence:Guardingtheplayerwiththeball andwithouttheball,Pivoting. Gamepracticewith applicationofRulesandRegulations. Rulesandtheirinterpretation and dutiesofofficials
NETBALL	A. Fundamentalskills1. Catching: onehanded,twohanded,with feetgroundedand inflight.2. Throwing (Different passes and their uses): One hand passes (shoulder,highshoulder,underarm,bounce,lob), twohandpasses(Push,overheadandbounce).3. Footwork:Landingononefoot,landingontwofeet,Pivot,Runningp ass.4. Shooting:Onehand,forwardstepshot,andbackwardstepshot.5. Techniquesof freedodgeandsprint,suddensprint, sprintandstop,sprintingwithchangeatspeed.6. Defending:Markingtheplayer,markingtheball, blocking,insidethecircle,outsidethecircle. thecircleedgeagainstthepassing.7. Intercepting:Passandshot.8. Gamepracticewith applicationofRulesandRegulations.B. Rulesandtheirinterpretation anddutiesofofficials

5 th Sem	AthleticsTrack-	RelayRace:Starting,BatonHolding/Carrying,BatonExchangeinbet	
	Relays	weenzone,andFinishing	
	Jumps-Triple Jump Throws -	TripleJump :ApproachRun,Take- off,FlightintheHop,Step,JumpandLanding	
	Jump Throws - JavelinThrow	Javelin Throw: Grip, Carry, and Recovery (3/5 Impulse	
	Javenniniow	stride).Release	
	Athletics	CombinedEvents:Heptathlonallthe7events	
	Combined Events-	Decathlon:All10Events	
	Heptathlon &	PoleVault:ApproachRun,PlantingthePole,Take-	
	Decathlon	off,BarClearanceandLanding.	
	Jumps- Pole Vault	HammerThrow:HoldingtheHammer,InitialStancePrimar	
	Throws -HammerThrow	y Swing,Turn,ReleaseandRecovery(Rotationinthecircle).	
	Throws-mainmenthrow	A.FundamentalSkills	
		1.Passing:Short pass,Longpass, pushpass, hit	
	HOCKEY	2. Trapping.	
	noemi	3.DribblingandDozing.	
		4. Penaltystrokepractice.	Total26hrs
		5. Penaltycornerpractice.	
		6. Tackling:SimpleTackling,SlideTackling.	
		7. GoalKeeping,Ballclearance-kicking,anddeflecting.	2hrs/week
		8. GamepracticewithapplicationofRulesandRegulations.	
		B.Rulesandtheirinterpretationanddutiesofofficials.	
		A.FundamentalSkills	
		1.Batting-ForwardDefenseStroke,BackwardDefenseStroke,	
		OffDrive,On Drive,Straight Drive,CoverDrive,SquareCut.	
	CRICKET	2. Bowling-Out-swing,In-swing,OffBreak,LegBreakandGoogly.	
		3. Fielding: Catching - The High Catch, The Skim Catch, The	
		Close Catch and throwing at the stumps from different	
		angles.LongBarrierandThrow,ShortThrow,Long	
		Throw, Throwing on the Turn.	
		4.WicketKeeping	
		B.Rulesandtheirinterpretationanddutiesofofficials A. FundamentalSkills	
		PlayerStances-	
		walking,extendingwalking,Lstance,catstanceGrip	
	BASEBALL	-standardgrip,chokegrip	
		Batting – swing and	
		bunt.Pitching	
		Baseball:slider,fast	
		pitch,curveball,dropball,riseball,changeup,knuckleball,screwball,	
		Rulesandtheirinterpretationand dutiesofofficials.	

6 th Sem IndividualGames	A. Fundamentalskills	
	 BasicKnowledge:VariouspartsoftheRacketandGrip. Service:Shortservice,Long service,Long-highservice. 	
SHUTTLEBADM	3. Shots:Overheadshot,Defensiveclearshot,Attacking	
NTON	clearshot,Dropshot,Netshot,Smash. 4. Gamepracticewith applicationofRulesandRegulations.	
	B. Rulesand	
	theirinterpretationsanddutiesoftheofficials.	_
	A. Fundamentalskills	
	1. BasicKnowledge:VariouspartsoftheRacketandGrip	
	(ShakeHand&PenHoldGrip). 2. Stance:Alternate&Parallel.	
TABLETENNIS	2. Stance: Alternate& Parallel. 3. PushandService: Backhand & Forehand.	
	4. Chop:Backhand&Forehand.	Total26hr
	5 Receive: Pushand Chopwithboth Backhand & Forehand.	s s
	 4. Chop:Backhand&Forehand. 5. Receive:PushandChopwithboth Backhand&Forehand. 6. Gamepracticewith applicationofRulesandRegulations. Rulesand theirinterpretationsanddutiesofthe 	3
	Officials	
	A.FundamentalSkills	2hrs/wee
	1. Catching, I nrowingandBall control, a Goal Throws: Jumpshot Centershot Diveshot Reverseshot	k k
	 Catching, ThrowingandBall control, Goal Throws: Jumpshot, Centershot, Diveshot, Reverseshot. Dribbling: Highandlow. 	к
HANDBALL	4. Attackandcounterattack, simplecounterattack, counter	
	attackfromtwowingsandcenter.	
	5. Blocking, Goal Keeping and Defensive skills,	
	attackfromtwowingsandcenter. 5. Blocking,GoalKeepingandDefensiveskills. 6. Gamepracticewith applicationofRulesandRegulations. B.Rulesandtheirinterpretation anddutiesofofficials	
	A. Fundamentalskills	-
	 BasicKnowledge:VariouspartsoftheRacketandGrip. Service:Shortservice,Long service,Long-highservice. 	
BALLBADMINTO	2. Service: Shortservice, Long service, Long-highservice.	
	3. Shots:Overheadshot,Defensiveclearshot,Attacking	
	clearshot, Dropshot, Netshot, Smash.	
	4. Gamepracticewith applicationofRulesandRegulations. B.Rulesandtheirinterpretation anddutiesofofficials	
	Distaicsunation interpretation andulucesoformetals	

Scheme of Assessment:

WEIGHTAGE	100%	(100%)
	CIE	CIE
At the End of 3 rd Semester	20	25
At the End of 4 th Semester	20	25
At the End of 5 th Semester	20	25
At the End of 6 th Semester	20	25
Written assignment/Quiz/Report writing/	20	-
TOTALMARKS FOR THECOURSE	100	100

22UI	HS001M		Credit : 00
L:T:P :0:0:2	2	YOGA	CIE Marks: 50
Total Hours Per Semester :26		(COMMON TO ALL BRANCHES)	SEE Marks : 00
Semester		Course	
IIISem		of yoga a	
IVSem	 Patanjali'sAsht Suryanamaskar Different types a. Sitting b. Standing c. Proneline d. Supineline 4) Pranayama 5) Kapalbhati 	ca of Asanas	
VSem VI Sem	 1) Patanjali'sAsht 2) Suryanamaskar 3) Differenttypes a. Sitting b. Standing c. Proneline d. Supineline 4) Kapalbhati 5) Pranayama 1) Patanjali's Ash 2) Suryanamaskar 3) Different types a. Sitting b. Standing c. Proneline d. Suryanamaskar d. Standing c. Proneline d. Supineline 	ra of Asanas tangaYoga ra	

Blown-UpSyllabus

Semester	Title	Content	No.of Hours
	Introduction of Yoga, Aim and Objectives of yoga,Prayer	Yoga,itsorigin,history and development.Yoga, its meaning, definitions. Different schools of yoga,importance of prayer	
	Brief introduction of yogic practices for commonman	Yogic practices for common man to promote Positive health	
	Rules and regulations	Rules to be followed during yogic practices by practitioner	Total
3rdSemest er	Misconceptions of yoga	Yoga its misconceptions, Difference between yogic and non yogic practices	26hrs 2hrs/wee k
	Suryanamaskara	Suryanamaskar prayer and its meaning, Need, importance and benefits of Suryanamaskar 12 count, 2 rounds	
	Different types of Asanas a. Sitting 1.Padmasana 2.Vajrasana b. Standing1.Vrikshana 2.Trikonasana c. Proneline1.Bhujangasana 2.Shalabhasana d. Supineline1.Utthitadvipadasana 2.Ardhahalasana	Asana, Need, importance of Asana. Different types of asana. Asana its meaning by name, technique precautionary measures and benefits of each asana	
⊿thSemeste	Patanjali'sAshtangaYoga 1. Yama 2. Niyama	Patanjali'sAshtangaYoga its need and importance. Yama:Ahimsa,satya,asteya, brahmacarya,aparigraha Niyama:shoucha,santosh,tapa,svaad hyaya,Eshvarapranidhan	
r r	Suryanamaskara Different types of Asanas a. Sitting1.Sukhasana 2.Paschimottanasana b. Standing1.ArdhakatiChakrasana 2. ParshvaChakrasana c. Proneline 1.Dhanurasana d. Supineline1.Halasana 2.KarnaPeedasana	Suryanamaskar12count 4rounds Asana, Need, importance of Asana. Differenttypes of asana.Asana its meaning by name, technique, precautionary measures and benefits of each asana	Total 26hrs
	Kapalabhati	Meaning, importance and benefits of Kapalabhati. 40 strokes/min3rounds	2hrs/ Week
	Pranayama–1. 1. Suryanuloma –Viloma 2. Chandranuloma-Viloma 3. Suryabhedana 4. ChandraBhedana 5. Nadishodhana	Meaning, Need, importance of Pranayama.Differenttypes.Meaning byname,technique,precautionary measures and benefits of each Pranayama	

	AshtangaYoga	Patanjali'sAshtangaYogaitsnee	
	3.Asana 4.Pranayama	dandimportance.	
	5.Pratyahara		
	6.Dharana		
	Suryanamaskara	Suryanamaskar 12count 6rounds	
5thSemeste	Different types of Asanas	Asana, Need, importance of Asana.	
J r	a. Sitting1. ArdhaUshtrasana	Differenttypes.Asanaitsmeaningbyn	Total
I	2.Vakrasana	ame,technique,precautionary	26hrs
	b. Standing 1.UrdhvaHastothanasana	measures and benefits of eachasana	2hrs/week
	2.Hastapadasana c. Proneline 1.Padangushtha		
	2. Dhanurasana		
	d. Supineline 1.Sarvangasana		
	2.Chakraasana		
	Kapalabhati	Revision of practice 50strokes/min	
	-	3rounds -	
	Pranayama–1.SuryaBhedana	Meaning, Need, importance of	
	2.Ujjayi	Pranayama.Differenttypes.Meaning	
		byname,technique,	
		Precautionary measures and benefits of each Pranayama	
		benefits of each Franayanna	
	AshtangaYoga 7 Dhyang(Maditation)	Patanjali's Ashtanga Yoga its	
	7.Dhyana(Meditation) 8.Samadhi	need and importance.	
	Suryanamaskara	Revision of practice 12 count 8 rounds	-
6 th	Different types of Asanas	Asana,Need,importance of Asana.	
Semester	a. Sitting1. AakarnaDhanurasana	Different types,	
Semester	2. YogamudrainPadmasana	Asana by name, technique,	
	b. Standing 1.Parivritta	precautionary erasures and	Total
	2.Trikonasana	benefits of each asana	26hrs2hrs/
	3.Utkatasana		week
	c. Proneline1.PoornaBhujangasana		
	/Rajakapotasana		
	d. Supineline1.Navasana/Noukasana 2.Pavanamuktasana		
	Kapalabhati	Revision of practice 60 strokes/min	
		3rounds -	_
	Pranayama– 1.Sheetali 2.Sheektari	Meaning, Need, importance of	
	3.Bhastrika	Pranayama.Different types.Meaning	
	4.Bhramari	by name, technique, precautionary	
		measures and benefits of each	
	ShatKriyas	Pranayama	-
	1. Jalaneti&sutraneti	Meaning, Need, importance of	
		Shatkriya.Differenttypes.Mean	
	2. Nouli(onlyformen)	ingbyname,technique,precautio	
	3. SheetkarmaKapalabhati	nary measures and benefits of	
		each Kriya	
		Cacii Milya	

BookforReference:

1. SwamiKuvulyananda :Asma(Kavalyadhama,Lonavala) :AsanaWhyandHow 2. Tiwari,OP 3. Ajitkumar : YogaPravesha(Kannada) 4. SwamiSatyanandaSaraswati :AsanaPranayama,Mudra,Bandha (BiharSchoolof yoga,Munger) :SuryaNamaskar 5. SwamiSatyanandaSaraswati (BiharSchoolof yoga,Munger) 6. NagendraHR :Theart and science of Pranayama 7. Tiruka :Shatkriyegalu(Kannada) :YogaPradipika(Kannada) 8. IyengarBKS :LightonYoga(English) 9. IyengarBKS : Samagra Yoga Darshini(Kannada) 10. S.K.Kuppasta

Scheme of Assessment:

WEIGHTAGE	100%
	CIE
At the End of 3 rd Semester	25
At the End of 4 th Semester	25
At the End of 5 th Semester	25
At the End of 6 th Semester	25
TOTALMARKS FOR THECOURSE	100

Note: 1. No Semester End Examinations.

22UHS002M		Credit: 00
L:T:P :0:0:2	National Service Scheme	CIE Marks : 50
Total Hours Per Semester :26	(NSS)	SEE Marks :00
	(COMMON TO ALL BRANCHES)	

CorseObjectives:NationalServiceScheme(NSS)willenablethestudentsto:

Course objectives: National Service Scheme (NSS) will enable the students to:

- 1. Understand the community in general in which they work.
- 2. Identify the needs and problems of the community and involve them in problem –solving.
- 3. Develop among themselves a sense of social & civic responsibility & utilize their knowledgein finding practical solutions to individual and community problems.
- 4. Develop competence required for group-living and sharing of responsibilities & gainin 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 in general.

		Contents	26 Hours
1	0		

1. Organic farming, Indian Agriculture (Past, Present and Future) Connectivity for marketing.

2. Waste management– Public, Private and Govt organization, 5 R's.

3. Setting of the information imparting club for women leading to contribution in social and economic issues.

4. Water conservation techniques – Role of different stakeholders– Implementation.

5. Preparing an actionable business proposal for enhancing the village income and approach for implementation.

6. Helping local schools to achieve good results and enhance their enrolment in Higher/ technical/ vocational education.

7. Developing Sustainable Water management system for rural areas and implementation approaches.

8. Contribution to any national level initiative of Government of India. Foreg. Digital India, Skill India, Swachh Bharat,

Atmanirbhar Bharath, Make in India, Mudra scheme, Skill development programs etc.

9. Spreading public awareness under rural outreach programs. (minimum5 programs).

10. Social connect and responsibilities.

11. Plantation and adoption of plants. Know your plants.

12. Organize National integration and social harmony events /workshops /seminars. (Minimum 02 programs).

13. Govt. school Rejuvenation and helping them to achieve good infrastructure.

NOTE:

- Student/s in individual or in a group Should select any one activity in the beginning of each semester till end of that respective semester for successful completion as per the instructions of NSS officer with the consent of HOD of the department.
- At the end of every semester, activity report should be Submitted for evaluation.

Course outcomes (Course Skill Set):

At the end of the course, the student will be able to:

- CO1: Understand the importance of his / her responsibilities towards society.
- CO2: Analyse 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.
- CO5: Develop capacity to meet emergencies and natural disasters & practice national integration and social harmony in general.

ASSESSMENTANDEVALUATIONPATTERN

WEIGHTAGE	100%
	CIE
At the End of 3 rd Semester	25
At the End of 4 th Semester	25
At the End of 5 th Semester	25
At the End of 6 th Semester	25
TOTALMARKS FOR THECOURSE	100

Blown-Up Syllabus

Semester	Topics / Activities to be Covered
3 rd Semester	 Organic farming, Indian Agriculture (Past, Present and Future) Connectivity for marketing. Waste management– Public, Private and Govt organization, 5 R's. Setting of the information imparting club for women leading to contribution in social and economic issues.
4 th Semester	 4. Water conservation techniques – Role of different stakeholders– Implementation. 5. Preparing an actionable business proposal for enhancing the village income and approach for implementation. 6. Helping local schools to achieve good results and enhance their enrolment in Higher/ technical/ vocational education.
5 th Semester	 7. Developing Sustainable Water management system for rural areas and implementation approaches. 8. Contribution to any national level initiative of Government of India. Foreg. Digital India, Skill India, Swachh Bharat, Atmanirbhar Bharath,Make in India, Mudra scheme, Skill development programs etc. 9. Spreading public awareness under rural outreach programs.(minimum5 programs). 10. Social connect and responsibilities.
6 th Semester	 11. Plantation and adoption of plants. Know your plants. 12. Organize National integration and social harmony events /workshops /seminars. (Minimum 02 programs). 13. Govt. school Rejuvenation and helping them to achieve good infrastructure.

Distribution of Activities - Semester wise from 3rd to 6th semester

Sl No	Торіс	Group size	Location	Activity execution	Reporting	Evaluation Of the Topic
1.	Organic farming, Indian Agriculture (Past, Present and Future) Connectivity for marketing.	May be individ ual or team	Farmers land/Villages/ roadside/ community area/ College campus etc	Site selection /proper consultation/Cont inuous monitoring/ Information board	Report should be submitted by individual to the concerned evaluation authority	Evaluation as per the rubrics Of scheme and syllabus by NSS officer
2.	Waste management– Public, Private and Govt organization, 5 R's.	May be individ ual or team	Villages/ City Areas / Grama panchayat/ public associations/Gover nment Schemes officers/ campus etc	Site selection /proper consultation/Cont inuous monitoring/ Information board	Report should be submitted by individual to the concerned evaluation authority	Evaluation as per the rubrics Of scheme and syllabus by NSS officer
3.	Setting of the information imparting club for women leading to contribution in social and economic issues.	May be individ ual or team	Women empowerment groups/ Consulting NGOs & Govt Teams / College campus etc	Group selection/proper consultation/Cont inuous monitoring/ Information board	Report should be submitted by individual to the concerned evaluation authority	Evaluation as per the rubrics Of scheme and syllabus by NSS officer
4.	Water conservation techniques – Role of different stakeholders– Implementation.	May be individ ual or team	Villages/ City Areas / Grama panchayat/ public associations/Gover nment Schemes officers/ campus etc	site selection / proper consultation/Cont inuous monitoring/ Information board	Report should be submitted by individual to the concerned evaluation authority	Evaluation as per the rubrics Of scheme and syllabus by NSS officer
5.	Preparing an actionable business proposal for enhancing the village income and approach for implementation.	May be individ ual or team	Villages/ City Areas / Grama panchayat/ public associations/Gover nment Schemes officers/ campus etc	Group selection/proper consultation/Cont inuous monitoring/ Information board	Report should be submitted by individual to the concerned evaluation authority	Evaluation as per the rubrics Of scheme and syllabus by NSS officer
6.	Helping local schools to achieve good results and enhance their enrolment in Higher/ technical/ vocational	May be individ ual or team	Local government / private/ aided schools/Governmen t Schemes officers/ etc	School selection/proper consultation/Cont inuous monitoring/ Information board	Report should be submitted by individual to the concerned evaluation authority	Evaluation as per the rubrics Of scheme and syllabus by NSS officer

	education.					
7.	Developing Sustainable Water management system for rural areas and implementation approaches.	May be individ ual or team	Villages/ City Areas / Grama panchayat/ public associations/Gover nment Schemes officers/ campus etc	site selection/proper consultation/Cont inuous monitoring/ Information board	Report should be submitted by individual to the concerned evaluation authority	Evaluation as per the rubrics Of scheme and syllabus by NSS officer
8.	Contribution to any national level initiative of Government of India. For eg. Digital India, Skill India, Swachh Bharat, Atmanirbhar Bharath, Make in India, Mudra scheme, Skill development programs etc.	May be individ ual or team	Villages/ City Areas / Grama panchayat/ public associations/Gover nment Schemes officers/ campus etc	Group selection/proper consultation/Cont inuous monitoring / Information board	Report should be submitted by individual to the concerned evaluation authority	Evaluation as per the rubrics Of scheme and syllabus by NSS officer
9.	Spreading public awareness under rural outreach programs.(minimu m5 programs). ///// Social connect and responsibilities.	May be individ ual or team	Villages/ City Areas / Grama panchayat/ public associations/Gover nment Schemes officers/ campus etc	Group selection/proper consultation/Cont inuous monitoring / Information board	Report should be submitted by individual to the concerned evaluation authority	Evaluation as per the rubrics Of scheme and syllabus by NSS officer
10.	Plantation and adoption of plants. Know your plants.	May be individ ual or team	Villages/ City Areas / Grama panchayat/ public associations/Gover nment Schemes officers/ campus etc	Place selection/proper consultation/Cont inuous monitoring / Information board	Report should be submitted by individual to the concerned evaluation authority	Evaluation as per the rubrics Of scheme and syllabus by NSS officer
11.	Organize National integration and social harmony events /workshops /seminars. (Minimum 02 programs).	May be individ ual or team	Villages/ City Areas / Grama panchayat/ public associations/Gover nment Schemes officers/ campus etc	Place selection/proper consultation/Cont inuous monitoring / Information board	Report should be submitted by individual to the concerned evaluation authority	Evaluation as per the rubrics Of scheme and syllabus by NSS officer

12.	Govt. school Rejuvenation and helping them to achieve good infrastructure.	May be individ ual or team	Villages/ City Areas / Grama panchayat/ public associations/Gover nment Schemes officers/ campus etc	Place selection/proper consultation/Cont inuous monitoring / Information board	be submitted	Evaluation as per the rubrics Of scheme and syllabus by NSS officer
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Pedagogy – Guidelines, it may differ depending on local resources available for the study as well as environment and climatic differences as well as location time of execution.

Plan of Action (Execution of Activities For Each Semester)

SI.N	Practice Session Description
0	
1	Lecture session by NSS Officer
2	Students Presentation on Topics
3	Presentation - 1, Selection of topic, PHASE - 1
4	Commencement of activity and its progress - PHASE - 2
5	Execution of Activity
6	Execution of Activity
7	Execution of Activity
8	Execution of Activity
9	Execution of Activity
10	Case study based Assessment, Individual performance
11	Sector wise study and its consolidation
12	Video based seminar for 10 minutes by each student At the end of semester with
	Report.

22UHS003M	PHYSICAL EDUCITION ANDSPORTS	Credit: 00
L:T:P :0:0:2	(PE)	CIE Marks: 50
Total Hours Per Semester :26	(COMMON TO ALL BRANCHES)	SEE Marks: 00

Semester	Course
IIISem	FitnessComponents
	Kabaddi/KhoKho
IVSem	Athletics
	Volleyball/Throwball
	/Football/Netball/Basketball
V Sem	Athletics
	Hockey /Cricket/Baseball
VISem	IndividualGames
	Handball/Badminton

Blown-Up Syllabus

Semeste r	CourseTitle	Content	No.ofHo urs				
	FitnessComponents	Meaning and Importance, Fit India Movement, Definition of fitness,					
	SpeedStrengthEnd	Components of fitness, Benefits of fitness, Types of fitness and Fitness					
	uranceAgilityFlexi	tips.					
	bility.	PracticalComponents:Speed,Strength,Endurance,Flexibility,andAgilit					
3 rd Sem		y y					
	кнокно	A.Fundamentalskills1. Skills in Chasing : Siton the box (Parallel &Bullettoe method),Getupfromthebox(Proximal& Distalfootmethod),GiveKho(Simple,Early,Late&Judgment),PoleTurn,Pole					
		 Dive, Tapping, Hammering, Rectification of foul. 2. Skills in running: Chain Play, Ring play and Chain & Ring mixed play. 3. Game practice with application of Rules and Regulations. B. Rules and their interpretations and duties of the officials. 					
	KABADDI	 A.Fundamentalskills Skills in Raiding: Touching with hands, Use of leg-toe touch, squatlegthrust, sidekick, mulekick, arrowflykick, 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. Additional skills in raiding : Escaping from various holds, Techniques of escaping from chain formation, of fense and defense. Game practice with application of Rules and Regulations. 					

	AthleticsTrack-Sprints	TrackEvents	
	Jumps- LongJump	Starting Techniques: Standing start and Crouch start(its variations)use of	
4 th Sem	Throws-ShotPut	Starting Block.	
		Acceleration with proper running techniques.	
		Finishing technique: RunThrough, Forward Lunging and Shoulder	
		Shrug. Long Jump: ApproachRun,Take-off,Flight in the	
		air(HangStyle/HitchKick)andLanding	Total26h
		Shotput: Holding the Shot,Placement, InitialStance,Glide, Delivery Stanceand	rs
		Recovery(PerryO'BrienTechnique	15
	<u>Athletics</u> Track-	110Mtrsand 400Mtrs:	2hrs/we
	110&400MtrsHurdles	HurdlingTechnique:LeadlegTechnique,TraillegTechnique,SideHurdli	ek
	Jumps-HighJump	ng,Over the Hurdles Crouch start(itsvariations)use of Starting Block.	
	Throws-DiscussThrow	Approach to First Hurdles, InBetween Hurdles, LastHurdlestoFinishing.	
		Highjump : ApproachRun, Take-off, BarClearance(Straddle) and	
		Landing. Discus InitialStancePrimarySwing Turn	
		DiscusThrow :Holding the Discus, InitialStancePrimarySwing,Turn, ReleaseandRecovery(Rotationinthecircle).	
		A.Fundamentalskills	
		1. Service:Underarmservice,Side	
	VOLLEYBALL	armservice, Tennisservice, Floatingservice.	
		2. Pass:Underarmpass, Overhead pass.	
		3. SpikingandBlocking.	
		4. GamepracticewithapplicationofRulesandRegulations	
		B.Rulesandtheirinterpretationanddutiesofofficials.	
		A. Fundamentalskills:	
	THROWBALL	Overhandservice, Sidearmservice, two handcatching, one hand overheadr	
		eturn,sidearmreturn.	
		B. Rulesandtheirinterpretationsanddutiesof officials	
		A. FundamentalSkills	
	FOOTBALL	1. Kicking: Kicking the ball with inside of the foot, Kicking	
	FUUIBALL	theball with Full Instepofthefoot, Kickingtheball with InnerInstep ofthefoot, KickingtheballwithOuterInstep	
		ofthefootandLoftedKick.	
		2. Trapping:Trapping- theRollingball,andtheBouncingballwith soleofthefoot.	
		3. Dribbling:Dribblingtheballwith Instepofthefoot,	
		DribblingtheballwithInnerandOuterInstepofthefoot.	
		4. Heading: Instanding, running and jumping condition.	
		5. Throw-in:Standingthrow-inandRunningthrow-in.	
		6. Feinting: Withthelowerlimbandupperpartof the body.	
		7. Tackling:SimpleTackling,SlideTackling.	
		8. GoalKeeping:CollectionofBall,Ballclearance-	
		kicking, throwing and deflecting.	
		9. Gamepractice with application of Rules and Regulations.	
		B. Rulesandtheirinterpretationanddutiesofofficials.	

	A. FundamentalSkills
BASKETBALL	 Passing:TwohandChestPass, TwohandsBounce Pass,OnehandBaseballPass,SidearmPass,Overhead Pass,HookPass. Receiving:Twohandreceiving,Onehandreceiving, Receivinginstationaryposition,Receivingwhile JumpingandReceivingwhileRunning. Dribbling:Howtostartdribble,dropdribble,High Dribble,LowDribble,ReverseDribble,Rolling Dribble. Shooting:Lay-upshot anditsvariations,One hand Setshot,Two handsjumpshot,Hookshot,FreeThrow. Rebounding:DefensivereboundandOffensiverebound. IndividualDefence:Guardingtheplayerwiththeball andwithouttheball,Pivoting. Gamepracticewith applicationofRulesandRegulations. Rulesandtheirinterpretation and dutiesofofficials
NETBALL	A. Fundamentalskills1. Catching: onehanded,twohanded,with feetgroundedand inflight.2. Throwing (Different passes and their uses): One hand passes (shoulder,highshoulder,underarm,bounce,lob), twohandpasses(Push,overheadandbounce).3. Footwork:Landingononefoot,landingontwofeet,Pivot,Runningp ass.4. Shooting:Onehand,forwardstepshot,andbackwardstepshot.5. Techniquesof freedodgeandsprint,suddensprint, sprintandstop,sprintingwithchangeatspeed.6. Defending:Markingtheplayer,markingtheball, blocking,insidethecircle,outsidethecircle. thecircleedgeagainstthepassing.7. Intercepting:Passandshot.8. Gamepracticewith applicationofRulesandRegulations.

5 th Sem	AthleticsTrack-	RelayRace:Starting,BatonHolding/Carrying,BatonExchangeinbet	
	Relays	weenzone,andFinishing	
	Jumps-Triple Jump Throws -	TripleJump :ApproachRun,Take- off,FlightintheHop,Step,JumpandLanding	
	Jump Throws - JavelinThrow	Javelin Throw: Grip, Carry, and Recovery (3/5 Impulse	
	Javenniniow	stride).Release	
	Athletics	CombinedEvents:Heptathlonallthe7events	
	Combined Events-	Decathlon:All10Events	
	Heptathlon &	PoleVault:ApproachRun,PlantingthePole,Take-	
	Decathlon	off,BarClearanceandLanding.	
	Jumps- Pole Vault	HammerThrow:HoldingtheHammer,InitialStancePrimar	
	Throws -HammerThrow	y Swing,Turn,ReleaseandRecovery(Rotationinthecircle).	
	Throws-mainmenthrow	A.FundamentalSkills	
		1.Passing:Short pass,Longpass, pushpass, hit	
	HOCKEY	2. Trapping.	
	noemi	3.DribblingandDozing.	
		4. Penaltystrokepractice.	Total26hrs
		5. Penaltycornerpractice.	
		6. Tackling:SimpleTackling,SlideTackling.	
		7. GoalKeeping,Ballclearance-kicking,anddeflecting.	2hrs/week
		8. GamepracticewithapplicationofRulesandRegulations.	
		B.Rulesandtheirinterpretationanddutiesofofficials.	
		A.FundamentalSkills	
		1.Batting-ForwardDefenseStroke,BackwardDefenseStroke,	
		OffDrive,On Drive,Straight Drive,CoverDrive,SquareCut.	
	CRICKET	2. Bowling-Out-swing,In-swing,OffBreak,LegBreakandGoogly.	
		3. Fielding: Catching - The High Catch, The Skim Catch, The	
		Close Catch and throwing at the stumps from different	
		angles.LongBarrierandThrow,ShortThrow,Long	
		Throw, Throwing on the Turn.	
		4.WicketKeeping	
		B.Rulesandtheirinterpretationanddutiesofofficials A. FundamentalSkills	
		PlayerStances-	
		walking,extendingwalking,Lstance,catstanceGrip	
	BASEBALL	-standardgrip,chokegrip	
		Batting – swing and	
		bunt.Pitching	
		Baseball:slider,fast	
		pitch,curveball,dropball,riseball,changeup,knuckleball,screwball,	
		Rulesandtheirinterpretationand dutiesofofficials.	

6 th Sem IndividualGames	A. Fundamentalskills	
	 BasicKnowledge:VariouspartsoftheRacketandGrip. Service:Shortservice,Long service,Long-highservice. 	
SHUTTLEBADM	3. Shots:Overheadshot,Defensiveclearshot,Attacking	
NTON	clearshot,Dropshot,Netshot,Smash. 4. Gamepracticewith applicationofRulesandRegulations.	
	B. Rulesand	
	theirinterpretationsanddutiesoftheofficials.	_
	A. Fundamentalskills	
	1. BasicKnowledge:VariouspartsoftheRacketandGrip	
	(ShakeHand&PenHoldGrip). 2. Stance:Alternate&Parallel.	
TABLETENNIS	2. Stance: Alternate& Parallel. 3. PushandService: Backhand & Forehand.	
	4. Chop: Backhand&Forehand.	Total26hr
	5 Receive: Pushand Chopwithboth Backhand & Forehand.	s s
	 4. Chop:Backhand&Forehand. 5. Receive:PushandChopwithboth Backhand&Forehand. 6. Gamepracticewith applicationofRulesandRegulations. Rulesand theirinterpretationsanddutiesofthe 	5
	Officials	
	A.FundamentalSkills	2hrs/wee
	1. Catching, I nrowingandBall control, a Goal Throws: Jumpshot Centershot Diveshot Reverseshot	k k
	 Catching, ThrowingandBall control, Goal Throws: Jumpshot, Centershot, Diveshot, Reverseshot. Dribbling: Highandlow. 	к
HANDBALL	4. Attackandcounterattack, simplecounterattack, counter	
	attackfromtwowingsandcenter.	
	5. Blocking, Goal Keeping and Defensive skills,	
	attackfromtwowingsandcenter. 5. Blocking,GoalKeepingandDefensiveskills. 6. Gamepracticewith applicationofRulesandRegulations. B.Rulesandtheirinterpretation anddutiesofofficials	
	A. Fundamentalskills	-
	 BasicKnowledge:VariouspartsoftheRacketandGrip. Service:Shortservice,Long service,Long-highservice. 	
BALLBADMINTON	2. Service: Shortservice, Long service, Long-highservice.	
	3. Shots:Overheadshot,Defensiveclearshot,Attacking	
	clearshot, Dropshot, Netshot, Smash.	
	4. Gamepracticewith applicationofRulesandRegulations. B.Rulesandtheirinterpretation anddutiesofofficials	
	Distances and then meet pretation and duttes of officials	

Scheme of Assessment:

WEIGHTAGE	100%	(100%)
	CIE	CIE
At the End of 3 rd Semester	20	25
At the End of 4 th Semester	20	25
At the End of 5 th Semester	20	25
At the End of 6 th Semester	20	25
Written assignment/Quiz/Report writing/	20	-
TOTALMARKS FOR THECOURSE	100	100

Cours	se Code:	UHS600C		Credits:		1	
Hours/Week15(L:T:P: S):Total Hours of Pedagogy				CIEUIUS.		50 Marks	
			INDIAN KNOWLEDGE		-	b o Piur no	
		lagogy	SYSTEMS	SEE	:	50 Marks	
	ory) 25						
1			udents will be able to	., ,			
1			he concepts of Indian tradition		dge	and to make	
-			ce of roots of knowledge syst				
2	to their day-to		nd the traditional knowledg	e and analys	e it	and apply it	
		I	Module-I			05 Hrs	
			Module – II			05 Hrs	
meas	urements- Matl	•	manities and Sciences: stry, Physics, Art, Astronomy, logy.	Lingistics, Astrology, (umber and s and Trade	
	0		Module -III			05 Hrs	
Trad	itional Knowle	edge in Professi	i onal domain: Town planni	ng and archi	itect	ure-	
Const	truction, Health	, wellness and P	sychology-Medicine, Agricult inable development goals.	•			
Cours			the course, the students will h				
CO1:	Provide an ov	verview of the con	cept of the Indian Knowledge	System and i	ts in	portance.	
CO2: Appreciate the need and importance of protecting traditional knowledge.							
CO3: Recognize the relevance of Traditional knowledge in different domains.							

CO3: Recognize the relevance of Traditional knowledge in different domains.

CO4: Establish the significance of Indian Knowledge systems in the contemporary world.

Reference Books:

Introduction to Indian Knowledge System- concepts and applications, B Mahadevan,	

- 1 Vinayak Rajat Bhat, Nagendra Pavana R N, 2022, PHI Learning Private Ltd, ISBN-978-93-91818-21-0
 - **Traditional Knowledge System in India**, Amit Jha, 2009, Atlantic Publishers and Distributors (P) Ltd., ISBN-13: 978-8126912230,
- 2 Knowledge Traditions and Practices of India, Kapil Kapoor, Avadesh Kumar Singh, Vol. 1, 2005, DK Print World (P) Ltd., ISBN 81-246-0334,

Suggested Web Links:

- 1. https://www.youtube.com/watch?v=LZP1StpYEPM
- 2. http://nptel.ac.in/courses/121106003/
- **3.** http://www.iitkgp.ac.in/department/KS;jsessionid=C5042785F727F6EB46CBF432D7683B63 (Centre of Excellence for Indian Knowledge System, IIT Kharagpur)
- 4. <u>https://www.wipo.int/pressroom/en/briefs/tk_ip.html</u>
- 5. https://unctad.org/system/files/official-document/ditcted10_en.pdf
- 6. http://nbaindia.org/uploaded/docs/traditionalknowledge_190707.pdf
- 7. <u>https://unfoundation.org/what-we-do/issues/sustainable-development-</u>
- / goals/?gclid=EAIaIQobChMInp-Jtb_p8gIVTeN3Ch27LAmPEAAYASAAEgIm1vD_BwE

ASSESSMENT AND EVALUATION PATTERN				
WEIGHTAGE	50% (CIE)	50%(SEE)		
QUIZZES				
Quiz-I	Each quiz is evaluated for 05	****		
Quiz-II	marks adding up to 10 Marks .			
THEORY COURSE - (Bloom's Taxonomy Leve Applying, Analyzing, Evaluating, and Creating)	ls: Remembering, Understanding,			
Test – I	Each test will be conducted for 25 Marks adding upto 50 marks.			
Test – II	Final test marks will be reduced to 20 Marks	****		
EXPERIENTIAL LEARNING	20	****		
Case Study-based Teaching-Learning				
Sector wise study & consolidation (viz., Engg. Semiconductor Design, Healthcare & Pharmaceutical, FMCG, Automobile, Aerospace and IT/ ITeS)		****		
Video based seminar (4-5 minutes per student)				
Maximum Marks for the Theory		50 Marks		
Practical				
Total Marks for the Course	50	50		

	CO-PO Mapping											
CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	-	-	-	-	-	-	3	-	-	-	1
CO2	-	-	-	-	-	2	-	-	-	-	-	-
CO3	-	-	2	2	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	3	2	-	-	-	-	-

High-3 : Medium-2 : Low-1

	RESEARCH METHODOLOGY		3				
Hours/Week (L:T:P: S): 2:2:0:0	& Intellectual Property	CIE Marks	50				
Total Hours of Pedagogy (Theory) 25	Rights	SEE Marks	50				
 Course Objectives: CO1. To Understand the knowledge on basics of research and its types. CO2. To Learn the concept of Literature Review, Technical Reading, Attributions and Citations. CO3. To learn Ethics in Engineering Research. CO4. To Discuss the concepts of Intellectual Property Rights in engineering. 							
Teaching-Learning Process (Genera	l Instructions)						
These are sample Strategies; that teach outcomes.		nt of the various cou	urse				
effective teaching methods co	 Lecturer methods (L) need not be only the traditional lecture methods, but alternative effective teaching methods could be adopted to attain the outcomes. 						
2. Use of Video to explain variou	-						
4. Ask at least three HOT (Highe	up Learning) Learning in the class. Order Thinking) questions in the clas	ss, which promotes o	critical				
thinking. 5. Introduce Topics in manifold	representations						
1	alyze the research problem and enco	urago tho students	to como				
up with their own creative w		ful age the students	to come				
-	in be applied to the real world - and v	when that's possible	e it helns				
Improve the students' under	standing.						
Introduction: Meaning of Research,	Module-1		(5 Hours)				
Research, Types of Engineering Rese Ethics in Engineering Research, Ethic Ethical Issues Related to Authorship	arch, Finding and Solving a Worthw	hile Problem. Types of Research					
Teaching- Learning ProcessChalk	and talk method / PowerPoint Prese	ntation.					
	Module-2		(5 Hours)				
Literature Review and Technical Prior Art Bibliographic Databases, W Forward Introduction to Technical Taking Notes While Reading, Readin	Reading , New and Existing Knowle eb of Science, Google and Google Sch Reading Conceptualizing Research,	edge, Analysis and 10lar, Effective Sear Critical and Creat	Synthesis of rch: The Way				
Prior Art Bibliographic Databases, W Forward Introduction to Technical Taking Notes While Reading, Readin Attributions and Citations : Giving Title and Keywords on Citations, Kn Acknowledgments and Attribution Dissertations, Dedication or Acknow	Reading , New and Existing Knowle eb of Science, Google and Google Sch Reading Conceptualizing Research, g Mathematics and Algorithms, Read Credit Wherever Due, Citations: Fun owledge Flow through Citation, Citin s, What Should Be Acknowledged ledgments.	edge, Analysis and nolar, Effective Sean Critical and Creat ling a Datasheet. ctions and Attribut ng Datasets, Styles , Acknowledgmen	Synthesis of rch: The Way tive Reading, res, Impact of for Citations,				
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Validity of Copyright. Copyright Profile of India. Copyright and the word 'Publish'. Transfer of Copyrights to a Publisher. Copyrights and the Word 'Adaptation'. Copyrights and the Word 'Indian Work'. Joint Authorship. Copyright Society. Copyright Board. Copyright Enforcement Advisory Council (CEAC). International Copyright Agreements, Conventions and Treaties. Interesting Copyrights Cases.

Trademarks: Eligibility Criteria. Who Can Apply for a Trademark. Acts and Laws. Designation of Trademark Symbols. Classification of Trademarks. Registration of a Trademark is Not Compulsory. Validity of Trademark. Types of Trademark Registered in India. Trademark Registry. Process for Trademarks Registration. Prior Art Search. Famous Case Law: Coca-Cola Company vs. Bisleri International Pvt. Ltd.

Module-5	(5Hours)

Industrial Designs: Eligibility Criteria. Acts and Laws to Govern Industrial Designs. Design Rights. Enforcement of Design Rights. Non-Protectable Industrial Designs India. Protection Term. Procedure for Registration of Industrial Designs. Prior Art Search. Application for Registration. Duration of the Registration of a Design. Importance of Design Registration. Cancellation of the Registered Design. Application Forms. Classification of Industrial Designs. Designs Registration Trend in India. International Treaties. Famous Case Law: Apple Inc. vs. Samsung Electronics Co.

Geographical Indications: Acts, Laws and Rules Pertaining to GI. Ownership of GI. Rights Granted to the Holders. Registered GI in India. Identification of Registered GI. Classes of GI. Non-Registerable GI. Protection of GI. Collective or Certification Marks. Enforcement of GI Rights. Procedure for GI Registration Documents Required for GI Registration. GI Ecosystem in India.

Case Studies on Patents. Case study of Curcuma (Turmeric) Patent, Case study of Neem Patent, Case study of Basmati patent. **IP Organizations In India. Schemes and Programmes**

 Teaching- Learning Process
 Chalk and talk method / PowerPoint Presentation

Assessment Details (both CIE and SEE)

The weight age 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). A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course if the student secures not less than 35% (18 Marks out of 50) in the semester-end examination (SEE), and 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:

Three Unit Tests each of 20 Marks (duration 01 hour)

1. First test at the end of 5th week of the semester

- 2. Second test at the end of the $10^{\mbox{th}}$ week of the semester
- 3. Third test at the end of the 15th week of the semester

Two assignments each of 10 Marks

- 4. First assignment at the end of 4th week of the semester
- 5. Second assignment at the end of 9th week of the semester

Group discussion/Seminar/quiz any one of three suitably planned to attain the COs and POs for 20 Marks (duration 01 hours)

6. At the end of the 13th week of the semester

The sum of three tests, two assignments, and quiz/seminar/group discussion will be out of 100 marks and will **be scaled down to 50 marks** (to have less stressed CIE, the portion of the syllabus should not be common /repeated for any of the methods of the CIE. Each method of CIE should have a different syllabus portion of the course).

CIE methods /question paper is designed to attain the different levels of Bloom's taxonomy as per the Outcome defined for the course.

Semester End Examination:

Theory SEE will be conducted by the University as per the scheduled timetable, with common question papers for the subject (duration 03 hours)

- 1. The question paper will be set for 100 marks. Marks scored shall be proportionally reduced to 50 marks.
- 2. The question paper will have ten questions. Each question is set for 20 marks.
- 3. There will be 2 questions from each module. Each of the two questions is under a module (with a maximum of 2 sub-questions).
- 4. The students have to answer 5 full questions, selecting one full question from each module.

Course Outcomes (Course Skill Set)

At the end of the course, the student will be able to:

C0 1. To know the meaning of engineering research.

CO2. To know the procedure of the literature Review and Technical Reading

CO3. To understand the fundamentals of the patent laws and drafting procedure.

CO 4. Understanding the copyright laws and subject matters of copyrights and designs.

CO5. Understanding the basic principles of design rights.

Suggested Learning Resources:

Textbook

1. Dr. Santosh M Nejakar, Dr. Harish Bendigeri "Research Methodology and Intellectual Property Rights", ISBN 978-93-5987-928-4, Edition: 2023-24.

Reference Book:

1. David V. Thiel "Research Methods for Engineers" Cambridge University Press, 978-1-107-03488-4

2. Intellectual Property Rights by N.K.Acharya Asia Law House 6th Edition. ISBN: 978-93-81849-30-9

- Activity Based Learning (Suggested Activities in Class)/ Practical Based learning
 - Quizzes
 - Assignments
 - Seminars