ಸಂಷ್ಠೇ.ಎಸಿಎ-2/ NEP-2020 /Open Elective List/2022-23

ದಿನಾಂಕ 24.01.2023

# ಸುತ್ತೋಲೆ

ವಿಷಯ: ಎರಡನೇ ವರ್ಷದ Physical Education ಹಾಗೂ Computer Science ಗೆ ಸಂಬಂಧಿಸಿದಂತೆ ಸ್ನಾತಕ ಪದವಿಯ ಕೋರ್ಸುಗಳ ಮುಕ್ತ ಆಯ್ಕೆ ವಿಷಯಗಳ (Open Elective) ಪಟ್ಟಯನ್ನು ಪ್ರಕಟಸುವ ಕುರಿತು –

ಉಲ್ಲೇಖ: 1. ಸರ್ಕಾರದ ಆದೇಶ ಸಂಖ್ಯೆ. ಇಡಿ 260 ಯುಎನ್ಪಿ 2021 (ಭಾಗ-1), ದಿನಾಂಕ: 13.08.2021, 21.08.2021, 31.08.2021 ಮತ್ತು 12.10.2021.

2. ವಿಶ್ವವಿದ್ಯಾಲಯದ ವಿವಿಧ ಅಧ್ಯಯನ ಮಂಡಳಗಳು ಮತ್ತು ನಿಕಾಯ ಸಭೆಗಳ ಶಿಫಾರಸ್ಸುಗಳು.

3. ದಿನಾಂಕ: 21.09.2022 ರಂದು ಜರುಗಿದ ಶೈಕ್ಷಣಿಕ ಪರಿಷತ್ತಿನ ಸಭೆಯ ನಡಾವಳ.

4. ವಿ.ವಿ.ಸುತ್ತೋಲೆ ಸಂಖ್ಯೆ.ಎಸಿಎ–2/ NEP-2020 /Open Elective List/2022 ದಿನಾಂಕ: 05.09.2022.

5. ಸಂಖ್ಯೆ.ಎಸಿಎ–2/ NEP-2020 /Open Elective List/2022-23 ದಿನಾಂಕ 27.09.2022

6. ಮಾನ್ಯ ಕುಲಪತಿಯವರ ಅನುಮೋದನೆ ದಿನಾಂಕ: 23.01.2023

ಉಲ್ಲೇಖ (5)ರಲ್ಲ ಓದಲಾದ ದಿನಾಂಕ 27.09.2022ರ ವಿಶ್ವವಿದ್ಯಾಲಯದ ಸುತ್ತೋಲೆಯನ್ನು ಮುಂದುವರೆಸುತ್ತಾ, NEP-2020ರ ಮಾರ್ಗಸೂಚಿಯ ಅನುಸಾರ ರಚಿಸಿರುವ ವಿವಿಧ ಸ್ನಾತಕ ಪದವಿ ಕೋರ್ಸುಗಳ 3 ಮತ್ತು 4ನೇ ಸಮಿಸ್ಟರ್ಗಳಗೆ ಮುಕ್ತ-ಆಯ್ಕೆಯ ವಿಷಯಗಳನ್ನು 2022–23ನೇ ಶೈಕ್ಷಣಿಕ ಸಾಅನಿಂದ ಜಾರಿಗೆ ಬರುವಂತೆ ಈಗಾಗಲೇ ಪ್ರಕಟಸಲಾಗಿದ್ದು, ಕೆಲವು ವಿಭಾಗಗಳ ಮುಕ್ತ-ಆಯ್ಕೆಯ ವಿಷಯಗಳನ್ನು ತಡವಾಗಿ ವಿಭಾಗಗಕ್ಕೆ ತಲುಪಿಸಿದ ಕಾರಣ ಬಾಕಿ ಇರುವ ಕೋರ್ಸುಗಳಗೆ ಮುಕ್ತ-ಆಯ್ಕೆಯ ವಿಷಯಗಳನ್ನು ಈ ಕೆಳಕಂಡಂತೆ ಪ್ರಕಟಸಲಾಗಿದೆ:

SI			OPEN ELECTIVE TOPICS (To be chosen across the faculty)			
SI Subject/Course		III SEMESTER		IV SEMESTER		
1 Physical Education	1	Health and Safety Education	1	Sports Journalism		
	1.0,000	2	Adventure Sports	2	Self Defense	
2	Computer Science	1	Fundamentals of HTML & CSS	1	Database Management Syllabus	

ಮುಂದುವರೆದು, ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯದ ವ್ಯಾಪ್ತಿಯಲ್ಲ ಬರುವ ಎಲ್ಲಾ ಸಂಯೋಜಿತ ಕಾಲೇಜುಗಳ ಪ್ರಾಂಶುಪಾಲರುಗಳು, ವಿಶ್ವವಿದ್ಯಾಲಯವು ಪ್ರಕಟಸಿರುವ ಮುಕ್ತ–ಆಯ್ಕೆಯ ವಿಷಯಗಳ ಪಟ್ಟಯನ್ನು (Open Elective Subjects) ದ್ವಿತೀಯ ವರ್ಷದ ವಿದ್ಯಾರ್ಥಿಗಳಗೆ Across the Faculty ಯುಂದ ಆಯ್ಕೆ ಮಾಡಿಕೊಳ್ಳಲು ಅವಕಾಶ ಕಲ್ಪಸಿ, ಸದರಿ ಆಯ್ಕೆ ಮಾಡಿದ ಮುಕ್ತ–ಆಯ್ಕೆಯ ವಿಷಯಗಳನ್ನು ವಿಶ್ವವಿದ್ಯಾಲಯದ UUCMS ಪೋರ್ಟಲ್ ನಲ್ಲ ಅಪ್ ಲೋಡ್ ಮಾಡಲು ತಿಳಸಲಾಗಿದೆ.

ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯದ ವ್ಯಾಪ್ತಿಯಲ್ಲ ಬರುವ ಎಲ್ಲಾ ಸಂಯೋಜಿತ ಕಾಲೇಜುಗಳ ಪ್ರಾಂಶುಪಾಲರುಗಳು ಈ ಸುತ್ತೋಲೆಯನ್ನು ಕಟ್ಟುನಿಟ್ಟಾಗಿ ಪಾಅಸಲು ಸೂಚಿಸಲಾಗಿದೆ.

<u>ಗೆ.</u> ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯಕ್ಕೆ ಸಂಯೋಜನೆಗೊಂಡಿರುವ ಕಾಲೇಜುಗಳ ಪ್ರಾಂಶುಪಾಲರುಗಳಗೆ.

ಪ್ರತಿಗಳು:

1. ಎಲ್ಲಾ ನಿಖಾಯಗಳ ಡೀನರುಗಳಿಗೆ, ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಂಗಳೂರು.

2. ಕುಲಸಚಿವರು (ಮೌಲ್ಯಮಾಪನ) ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಂಗಳೂರು.

3. ಸಿಸ್ಟಂ ಅನಾಲಸ್ಟ್, E-Governance ಕೋಶ – ಸುತ್ತೋಲೆಯನ್ನು ವಿ.ವಿ. ಅಂತರ್ಜಾಲದಲ್ಲ ಪ್ರಕಟಸುವ ಸಲುವಾಗಿ

4. ಕುಲಪತಿಯವರು/ಕುಲಸಚಿವರು/ ಕುಲಸಚಿವರು (ಮೌಲ್ಯಮಾಪನ)/ವಿತ್ತಾಧಿಕಾರಿಯವರು-ಇವರುಗಳ ಆಪ್ತಕಾರ್ಯದರ್ಶಿಗಳಗೆ, ಬೆಂ. ವಿ. ಬೆಂ.

# Semester III OPEN ELECTIVE PAPER-1

Title of the Course:

**Health and Safety Education** 

(BA/BSc/BCom/BBA/BCA & all other UG Courses)

# Course outcomes

On completion of the Course the student will be able to:

- Know the meaning of health and factors influencing it.
- · Learn causes and prevention of communicable diseases.
- Learn the safety measures to be taken in playgrounds, schools and at home.

Number of Theory Credits	Number of lecture hours/semester	Number of Practical Credits	Number of Practical hours/ semester	
1	14	2	56	
	Contents	of the Course		
		-0-2		
		THEORY		1
UNIT 1 - INTRO	DUCTION			
	and definition of Health			
	fluencing Health:			
	redity,			
	vironment			
> Ha	bits			
<ul> <li>Physical a</li> </ul>	nd mental health- mear	ning and dimensions		
<ul> <li>Personal F</li> </ul>	Hygiene - Skin, Mouth,	, Teeth, Nails, Clothing, S.	hoes, Food, and	-
Exercise,				
<ul> <li>Sleep and</li> </ul>	Relaxation			
UNIT 2- COMM	UNICABLE DISEAS	SE.		
	and Definition of Comr			
	Communicable disease			
A CONTRACTOR OF CONTRACTOR	Infections.			
-		Filaria Typhoid, Cholera,	Dysentery, Small Pox,	
	Cough, Tuberculosis,			
UNIT 3- PUBLI	C HEALTH AND SA	FETY		
Meaning of	of public health,			
<ul> <li>General m</li> </ul>	nethods of sanitation			
		at home, street, play groun		
		conservation and sustaina	able development.	
	d safety in daily life.			
<ul> <li>Supply of Practical</li> </ul>		thods of water purification	n	
<ul> <li>First Aid</li> </ul>				
	equirements during Spo	The state of the s	100	
<ul> <li>First aid</li> <li>Strain.</li> </ul>	during emergencies: S	CA, Fractures, Breathless	sness, Cramps, Sprains,	
<ul> <li>Preparation</li> </ul>	on of reports.			

\* The practical classes shall be adapted to the physically challenged students as per requirement.

Formative Assessment					
Assessment Type	Internal Assessment	Semester Exam	Total		
Theory	20	40	60		
Practical	20*	20	40		
		Total	100		

<sup>\*</sup>Internal marks can be assigned for field work, projects, written tasks, practical tasks etc.

# References

- Bucher. C. A (1979) Foundations of Physical Education (5<sup>th</sup> edition Missouri CV Mosby Co.)
- Coalter, F. (2013) Sport for Development: What game are we playing? Routledge.
- Puri .k. Chandra S.S (2005) "Health and Physical Education" New Delhi : Surject Publications.
- Thomas D Fahey and others. Fit and well: 6th Edition New York: McGraw Hill Publishers, 2005

# Semester III OPEN ELECTIVE PAPER - 2

Title of the Course: Adventure Sports

(BA/BSc/BCom/BBA/BCA & all other UG Courses)

# Course outcomes

On completion of the Course the student will be able to:

- Understand the meaning and importance of Adventure sports.
- Learn the various types of adventure sports, the equipment and resources required to practice these sports.
- Learn the safety measures to be taken while practicing adventure sports.
- Be aware of the job opportunities in this area of sports.
- Practically perform selected adventure sports.
- · Teach, plan and organize various adventure sports.
- · Learn to record and prepare reports.

Number of Theory Credits	Number of lecture hours/semester	Number of Practical Credits	Number of Practical hours/ semester	
1	14	2	56	
	Conten	ts of the Course $1-0-2$		
<ul> <li>Definition</li> </ul>		ortance of Adventure Spor	ts	14
<ul><li>Unit-2 Types of</li><li>Water as surfing,</li><li>Aero spe</li></ul>	paddling. orts: Ballooning, Hang	and Objectives  eing, rafting, kayaking, so g gliding, Paragliding, Para  cock Climbing, Wall climb	asailing, skydiving	
Unit-3 Safety, re  Safety n  Recent 1	cent trend and carrie leasures and first aid Trends in Adventure S	er opportunity in advent		56
Unit-4	ortunities in Adventur	e Sports	C 124 13	
Organization Tire bound.	ons, Mountaineering, l	Rock climbing, trekking, s	single rope,	
Practical				
<ul><li>Practical</li><li>Planning</li><li>Sailing,</li></ul>	, teaching, demonstrat	ng Up, Specific Exercises, tion, training, technical tra ntaineering, Trekking, Ro	ining.	

\* The practical classes shall be adapted to the physically challenged students as per requirement.

	Formative Assessme	ent	
Assessment Type	Internal Assessment	Semester Exam	Total
Theory	20	40	60
Practical	20*	20	40
	To	tal	100

<sup>\*</sup>Internal marks can be assigned for field work, projects, written tasks, practical tasks etc.

#### REFERENCES

- Adventure Sports: World's Most Popular 89 Adventure Sports Paperback Import, 13
   February 2020, by Mahesh Sharma (Author)
- Adventure Tourism and Sports 1st Edition (English, Hardcover, Negi Jagmohan)
- The world of adventure sports, By: Berne, Emma Carlson, Lonely Planet
- Kids, Jepson, Ian(Illustrated by) Part of the Lonely Planet Kids series
- Sports, Games and Adventure Sports (English, Hardcover, Ghosh C N)
- Kilpatrick all for adventure, "All for adventure", Irrene/ Hall, Susan(ILT)
- Kalpana Swaminathan "Adventure sports".

# Semester IV Open Elective Paper-1 Title of the Paper Sports Journalism

(BA/BSc/B.Com/BBA/BCA & all other UG Courses)

	lumber of leory Credits	Number of lecture hours/semester	Number of Practical Credits	Number of Practical hours/ semesters
	2	28	1	28 Hours
	C	ontent of Theory Cour	rse (2-0-1) 3 Credit	ts 56 Hour
	Γ 1 - INTRODUC	THEOR CTION inition of Journalism	Y	
AAA	Sports Journalism Media: Types, Na Journalist: Role, I	e: Meaning, Definition a sture, Significance Responsibilities, Ethics a mational sports news Ag	and Hazards in jour	nalism 28
AAAA	Sports Coverage: Sports Matters (co Organization of P	Mass Media: Print, Elec Live and Recorded ontent): News, Panel Di		vs, Special Stories.
PF	Brief review of O General news rep Skill and Techniq Drafting and Rep Speech ACTICAL Field Visits and R Interviews of Elit Project on Local S Notable National Sports Journalism	ort, Sports Events, Compues of Writing orting - Language, Voca Reporting of Major Sporte Sports Personalities Sports Tournaments and and International Sports	abulary, Dialect, Spets Events  Sports Photograph Sournalists and the	elling, Figure of 28

Formative Assessment				
Assessment Type	<b>Internal Assessment</b>	Semester Exam	Total	
Theory	20	40	60	
Practical	20*	20	40	
	Tota	al	100	

# Semester IV OPEN ELECTIVE PAPER - 2

Title of the Course:

## Self Defence

(BA/BSc/B.Com/BBA/BCA & all other UG Courses)

#### Course outcomes

On completion of the Course the student will be able to:

- · Understand the meaning and need of self-defense.
- Understand the fitness requirements to implement self-defense.
- Learn the basic techniques of selected combative sports.
- Learn the defensive techniques applied from combative sports.
- Implement survival techniques during emergencies.
- · Learn to record and prepare reports.

\* The practical classes shall be adapted to the physically challenged students as per requirement.

Number of Theory Credits	Number of lecture hours/semester	Number of Practical Credits	Number of Practical hours/ semester
1	14	2	56
		of the Course	
Theory	1.	-0-2	14
Unit-1 Introd	Juction		14
	g and Importance of Sel	f Defence	
	es of Self Defense	Defence.	
		combative sports – Karate	Kick boying
	restling.	combative sports – Karate	s, Rick boxing,
Unit-2			
	requirements for self-de	fense.	
		ations of self-defensive sk	ills.
	ice between armed and i		56
	ence instructor.		30
	opportunities of a self de	fence instructor.	
Practical			
<ul> <li>General</li> </ul>	conditioning and self-d	efense specific conditioni	ng
Basic te	chniques of karate, kick	boxing, judo and wrestlin	g
		ombative sports for self-de	
		cific situations: chain snat	
	ack, holding from back		
<ul> <li>Self-def</li> </ul>	ense using equipment su	uch as stick (lathi), nan-ch	aku etc.
<ul> <li>Record :</li> </ul>	and report preparation.		

	Formative Assessment		
Assessment Type	Internal Assessment	Semester Exam	Tota
Theory	20	40	60
Practical	20*	20	40
	Total		100

<sup>\*</sup>Internal marks can be assigned for field work, projects, written tasks, practical tasks etc.

## References

- "Darren Levine has my unqualified support and gratitude for his contributions to Krav Maga." –ImiLichtenfeld, founder of Krav Maga
- In the Name of Self-Defense:: What it costs. When it's worth it, 603 pages, Kindle Edition, first published July 2, 2014
- Self Defense: The Ultimate Guide To Beginner Martial Arts Training Techniques (Martial Arts, Self Defense For Women, Self Defense Techniques Book 1) Kindle Edition
- Taekwondo: A Step-by-Step Guide to the Korean Art of Self-Defense Paperback 15
   Jan 2003
- The Self-Defense Handbook (English, Paperback, Fury Sam)
- The Walking Stick Method of Self Defence Paperback Import, 14 August 2018

# Recommendations

- The various papers in the subject of Physical Education, Sports and Yoga of undergraduate
  programmes, in core discipline, specific discipline elective, Health Education and Skill
  Enhancement Courses, shall be taught (theory and practical) by Physical Education Faculty,
  qualified as per the UGC guidelines
- The Committee recommends that from 2022-23 and there on, the Physical Education, Sports & Yoga Discipline Core Subject (DSC) shall be considered under Science Stream (B.Sc.) as it is in other states.
- Physical Education Faculty shall be enriched with additional knowledge through short term courses/workshops/refresher/orientation/training programmes as per requirements.
- 4. The committee recommends inclusion of the subjects for the competitive examinations conducted for the civil services under the central and state level.
- Health, Wellness and Yoga (Value based paper under SEC) paper shall be taught by Physical Education Faculty only.
- In addition to Practical, one hour of theory (for Physical Education, Sports and Yoga) under Skill Enhancement Course shall be ensured at the first semester of all Under Graduate courses.
- 7. Appropriate Sporting and Yoga infrastructure and necessary Books/reference materials shall be ensured at all Higher Education Institutions (HEIs).
- Recruitment of Faculty shall be ensured in all Government, Aided, Constituent and Private HEIs.
- 9. Open Elective Papers and Skill Enhancement Papers in Physical Education, Sports and Yoga shall be made available in all HEIs across all UG Programs (Arts, Science & Commerce, i.e.BA/BSc/BCom/BBA/BCA & all other UG Courses) starting from the academic year 2021-22. Board of Studies (BoS) & Board of Examination (BoE) shall be constituted immediately in all the universities.
- 10. The existing workload of the Physical Education Faculty for preparing college sports teams (training and coaching hours) for University/State/National level competitions shall also be considered along with the workload of papers made available under NEP.

- 11. HEIs shall be guided and empowered to align with NSQF (National Skills Qualification Framework) and enter into MoUs with NSDC (National Skill Development Corporation) and other organizations to ensure employability.
  - 12. Along with Discipline Specific Core papers, appropriate measures shall be ensured to conduct practical and theory assessments for Open Electives and Skill Enhancement Courses.



SOUND MIND IN A SOUND BODY.

# Open Elective courses offered by the Department of Computer Science

Open Elective 3: Fundamentals of HTML & CSS

Course Code: CSOE04	Fundamentals of HTML & CSS
Course Credits: 03	Hours/Week: 03
Total Contact Hours: 42	Formative Assessment Marks: 40
Exam Marks: 60	Exam Duration:

#### Introduction to HTML

History of HTML - What you need to do to get going and make your first HTML page - What are HTML Tags and Attributes? - HTML Attributes - How to differentiate HTML Document Versions- Introduction and Advantages of HTML 5 - Limitations of HTML 4 - First HTML5 Document - Overview of New Features of HTML5.

#### **HTML-Basic Formatting**

HTML Basic Tags - HTML Formatting Tags - HTML Color Coding - Div and Span Tags for Grouping -Table: , Lists: Unordered Lists - Ordered Lists - Definition list, Images: Image and Image Mapping, HTML-Iframe: Attributes Using - Iframe as the Target, Hyperlink: URL - Uniform Resource Locator - URL Encoding. Semantic elements: Header - Navigation - Section & Articles - Footer - Aside

#### Web Forms

Web Forms: HTML 5 Global Attributes - Displaying a Search Input Field - Utilizing Date and Time Input Fields - Number Inputs - Selecting from a Range of Numbers - Selecting Colors - Creating an Editable Drop-Down - Requiring a Form Field - Displaying Placeholder Text - Disabling Autocomplete - Restricting Values.

#### CSS

Introduction: CSS Versions History - Benefits of CSS - What CSS3 Is and How It Came to Be - CSS3 Is Modular - CSS3 Is Not HTML5- Browser-Specific Prefixes, Syntax: CSS Syntax - single Style Sheets - Multiple Style Sheets - Value Lengths and Percentages, Selectors: ID Selectors - Class Selectors - Grouping Selectors - Universal Selector - Descendant / Child Selectors - Attribute Selectors, CSS-Color Background Cursor, Text Fonts, -Lists Tables, transformations.

# Readings:

1. HTML5 and CSS3 visual quick start guide 7th edition

- 2. Black Book, HTML 5, Dreamtech Press
- 3. Ralph Moseley and M. T. Savaliya, Developing Web Applications, Wiley-India

# Open Elective courses offered by the Department of Computer Science

Open Elective 4: Database Management System

Course Code: CSOE04	Database Management Systems
Course Credits: 03	Hours/Week: 03
Total Contact Hours: 42	Formative Assessment Marks: 40
Exam Marks: 60	Exam Duration:

# Course Outcomes (COs):

After completing this course satisfactorily, a student will be able to:

- Understand relevance of Databases and DBMS.
- Appreciate the purpose of SQL and learn to use SQL DDL and DML commands
- Write SQL for Join operations and aggregation.
- · Obtain insights about transactions and apply all the SQL DDL, DML commands

Content	He
Unit – 1	
Introduction to Databases & DBMS:  Introduction: File Systems, File storage and its limitations, The Database Approach, Database Management Systems, DBMS advantages and limitations, DBMS Concepts: Database Schema, Meta-Data/ Data Dictionary, Constraints, Relational Data Model Concepts: Relation, Attributes, Tuples, Domain, Cardinality, Degree. Keys – Candidate key, Primary key, Composite key, foreign key.	12 Hr
Unit – 2	
Introduction to SQL:  SQL and its features, SQL Data types, DDL: Create tables (with constraints), Alter tables, DML: Insert, Update, Delete Operations, Queries: Simple Queries, select with WHERE clause, ORDER BY clause and aggregate functions, Using operators like BETWEEN, IN, ANY, ALL and computations in queries, Simple Queries using all clauses	Hrs
Unit ÷ 3	
More on SQL:  Joins, types of joins, queries with GROUP BY clause, queries with HAVING clause, views and their relevance, creating and using views, simple example queries for joining tables and using GROUP BY and HAVING clause	10 Hrs
Unit – 4	

# Case Study:

The University Database has the following tables:

STUDENT(usn, name, address, date\_of\_birth, program\_cd, semester)

DEPARTMENT( dept\_cd, dept\_name, HOD\_cd) (HOD\_cd is foreign key which references faculty\_cd of FACULTY table)

FACULTY( faculty\_cd, name, address, date\_of\_join, dept\_cd)

Program( program\_cd, program\_name, dept\_cd) (Each Department offers multiple programmes eg: BCA, MCA are offered by CS department)

# Write SQL DDL and DML statements for the following:

- 1. Create all the tables defining primary keys and foreign keys.
- 2. Add the column email\_id to the STUDENT table
- 3. Insert minimum three tuples in each of the tables.
- 4. Update the date\_of\_birth of a specific student.
- 5. Delete the data of a specific faculty.
- 6. Display all the programmes taught by Computer Science department
- 7. Display all the faculties who teach in the Math department.
- 8. Display the number of faculty members in each department
- 9. Display the student usn, name along with the programme (program name) he is studying
- 10. Display all the department names along with the names of their HODs.

#### Reference Books:

- 1. Elmasri, Navathe, Fundamentals of Database Systems (5th Edition), Pearson
- 2. Alan Beaulieu, Learning SQL 2nd Edition, O'Reilly Publications

# Web Resources:

- https://ncert.nic.in/textbook/pdf/keip107.pdf
- 2. https://ncert.nic.in/textbook/pdf/keip108.pdf