The Berar General Education Society's

SHRI RADHAKISAN LAXMINARAYAN TOSHNIWAL COLLEGE OF SCIENCE, AKOLA

Affiliated to

Sant Gadge Baba Amravati University, Amravati, Maharashtra

NAAC Re-accredited with Grade "A" (CGPA 3.18)

Website: www.rltsc.edu.in

7.2- BEST PRACTICES

Session :2023-24

Index

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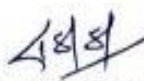
Ref. No: RLT/IQAC/2023-24/C-VII /7.2   **Date: 30/07/2024**
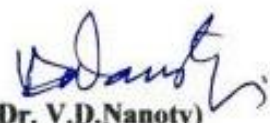
DECLARATION

This is to declare that, the information, data, photographic evidences, true copies of the supporting documents etc. furnished in this file of **7.2: Best Practices of the Institution** is checked and verified by IQAC, Shri R. L. T. College of Science, Akola and found to be correct.

(Dr. R. L. Rahatgaonkar)   **(Dr. V.D.Nanoty)**
IQAC Coordinator   Principal & IQAC Chairman
Shri R L T College of Science, Akola   Shri R L T College of Science, Akola

Best Practice – 1

Title of the Practice:

E-Calendar publication on Theme "Innovations in the Field of Computer Science and Information Technology"

Objectives of the Practice:

- To percolate the innovative knowledge in the Field of Computer Science & Information Technology (IT) among students and society.
- To inculcate scientific temperament among students.
- To develop student's interest and involvements in participatory learning.

The Context:

In today's rapidly evolving digital landscape, computer science education (CSE) has become increasingly essential for preparing individuals to thrive in the modern world. From powering technological advancements in driving innovation across industries, computer science plays a pivotal role in shaping the future of society, economy and technology. In addition to drive innovation and economic growth, computer science has the potential to address some of the most pressing challenges facing society today. From combating climate change and improving healthcare outcomes to promote social justice and equality, technology can be a powerful force for positive change.

Reviving innovations in the field of Computer Sector through such activities and initiatives requires the involvement of students to motivate research and develop their interest in the subject as well as enhance their skills in the field of computer science and IT. By instilling computational thinking and problem-solving skills in students for real-world challenges, computer science education empowers them to make a difference and contribute to creating a better world.

The Practice:

- This is an annual practice of M.Sc. (Computer Science) students under the guidance of Prof. Ram B. Ghayalkar, Assistant Professor & Head, Department Computer Science.
- The purpose behind performing this project was explained to the students.
- Students were divided into 12 groups and each group was given a different topic to collect information.
- Students collected information on related themes like scientist information, innovation in Computer Science and IT field etc.
- Pages of the calendar were designed by the students under guidance of supervisor.

- For preparation of Calendar for the year 2024, information regarding the microprocessor, Programming languages, Touchscreens, Internet of things (IoT), Databases, the internet, Artificial intelligence (AI), Cloud computing, Smartphones, Robotics, First Computer mouse and Quantum computing was collected and arranged in the month of January, February, March, April, May, June, July, August, September, October, November and December respectively.
- Along with above information about innovations in Computer Science and IT field, full and no moon days which is having special importance in astronomical field, are mentioned. Also, academic holidays which is useful to find working and non-working days are mentioned in the calendar.
- The e-copy of calendar was displayed on college website. Also, it was circulated among the students and society.

Photographic Evidences

Inauguration of Softcopy of the calendar by Principal Dr. V. D. Nanoty and release on college website.

Shri R. L. T. College of Science Akola (MS)

P G Department of Computer Science
Published Department Calendar 2024
(Session 2023-24)

Department of Computer Science of Shri R.L. T. College of Science Akola (MS) has published department calendar on Scientist from Computer Science & IT fields in softcopy as well as hardcopy on dated 01-01-2024. Softcopy in pdf of the calendar inaugurated by Principal Dr. V. D. Nanoty in group and college website.

Students of M.Sc. design and collected information of the scientist and full & no moon days with holidays under the guidance of Prof. Ram B. Ghavalkar, Assistant Professor & Head of Computer Science department.

Department of Computer Science & IT has published department calendar 2024 on the theme Innovations in the Field of Computer Science & IT

Prof. R. B. Ghavalkar
(Assistant Professor & Head)
Department of Computer Science & IT
Shri R. L. T. College of Science Akola

Shri R. L. T. College of Science, Akola (MS)

Innovations in the Field of Computer Science & IT

HAPPY
NEW
YEAR
2024

Department of Computer Science & IT

THE MICROPROCESSOR

The invention of the microprocessor by Intel's Ted Hoff, Federico Faggin, and Stanley Mazor marked the beginning of a computing revolution. This small chip, which integrated all the functions of a central processing unit onto a single piece of silicon, paved the way for the development of personal computers, laptops, and mobile devices.

January 2024

SUN	MON	TUE	WED	THU	FRI	SAT
	1	2	3	4	5	6
7	8	9	10	11 ●	12	13
14	15	16	17	18	19	20
21	22	23	24	25 ●	26	27
28	29	30	31			

NOTE : _____

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Programming Languages (1950s – Present)

The creation of programming languages like Fortran, C, Java, and Python simplified the process of writing software. These languages allow programmers to express complex ideas in a way that computers could understand, making software development accessible to a broader audience.

February 2024

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4	5	6	7	8	9 ●	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24 ●
25	26	27	28	29		

Note : _____

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First Touchscreen – 1965

Touch Displays: A Programmed Man-Machine Interface , which was published in Ergonomics journal in 1967. The idea was adopted for use by air traffic controllers in the United Kingdom until the 1990s. Furthermore, the first resistive touchscreen was developed by George Samuel Hurst, who got US patent #3911215 in 1975.

March 2024

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10 ●	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25 ●	26	27	28	29	30
31						

Note : _____

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Internet of Things (IoT)

Another one of the latest trends in Information Technology is the Internet of Things. In simple terms, the Internet of Things refers to physical objects or devices being connected to each other over the internet. It is a network of objects that has found its use in many industries. One example of IoT is the various devices used at home. From the lights and blinds to the alarm system and temperature control system.
Doors can be locked now right from the bed and one can also track their steps and calories burnt through a smartwatch. IoT's future is exciting and makes for efficient decision-making for organizations.

April 2024

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8 ●	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23 ●	24	25	26	27
28	29	30				

Note : _____

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Databases (1960s – present)

The development of relational databases, such as Oracle and IBM's DB2, revolutionized data management. These systems allowed for the efficient storage and retrieval of structured data, enabling businesses to handle vast amounts of information more effectively.

May 2024

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8 ●	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23 ●	24	25
26	27	28	29	30	31	

Note : _____

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The Internet (1960s – 1980s)

While the World Wide Web is an essential part of the Internet, the Internet itself is a collection of interconnected networks that dates back to the 1960s. ARPANET, the precursor to the internet, was developed by the U.S. Department of Defense to facilitate communication and data sharing. The growth of the internet has since transformed every sector.

June 2024

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4	5	6 ●	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22 ●
23	24	25	26	27	28	29
30						

Note : _____

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Artificial Intelligence (1950s – Present)

Modern Artificial intelligence (AI) has its origins in the 1950s when scientists like Alan Turing and Marvin Minsky began to explore the idea of creating machines that could think and learn like humans. The field of artificial intelligence has produced numerous innovations, from early rule-based systems to modern machine-learning algorithms. AI is now integrated into various aspects of our lives, from voice assistants to self-driving cars and recommendation systems.

July 2024

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5 ●	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21 ●	22	23	24	25	26	27
28	29	30	31			

Note : _____

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Cloud Computing (2000s – Present)

Cloud computing is the on-demand availability of computing resources (such as storage and infrastructure), as services over the internet. It eliminates the need for individuals and businesses to self-manage physical resources themselves, and only pay for what they use.

August 2024

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4 ●	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19 ●	20	21	22	23	24
25	26	27	18	29	30	31

Note : _____

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Smartphones{Palmtop} (2000s – Present)

The introduction of smartphones, transformed mobile computing. These pocket-sized devices combine powerful processors, high-resolution displays, and an array of sensors to offer a multitude of functions, from communication to navigation and entertainment.

September 2024

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3 ●	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18 ●	19	20	21
22	23	24	25	26	27	28
29	30					

Note : _____

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ROBOTICS

Robotics is not a new technology in the field of Information Technology. It refers to creating machines with IT that are capable of handling many tasks otherwise done by a human being.

October 2024

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2 ●	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17 ●	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Note : _____

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First Computer Mouse – 1964

The computer mouse was invented by Douglas Engelbart with the assistance of Bill English and was patented on 17th November 1970. It was just a tiny piece of a much larger project aimed at augmenting human intellect.

Engelbart wanted to develop a system that could interact with the information displayed on the screen.
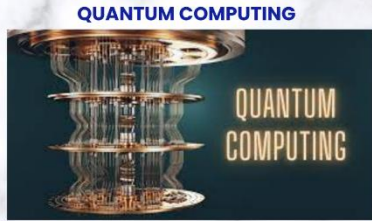

November 2024

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1 ●	2
3	4	5	6	7	8	9
10	11	12	13	14	15 ●	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Note : _____

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QUANTUM COMPUTING

Quantum Computing is a new technology that is still developing but nonetheless exciting. It is a form of computing that uses the law of quantum mechanics to help solve problems that otherwise cannot be handled by a normal computer.

In recent times, Quantum Computing has been used in determining the spread of coronavirus and finding out vaccines. Alternatively, Quantum Computing also finds use in banking and finance. Organizations use this technology to detect fraud and calculate risk.

December **2024**

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15 ●	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30 ●	31				

Note : _____

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🌐 www.rltsc.edu.in

Important Days / Public Holidays 2024

Republic Day	Friday, 26th January, 2024
Chatrapati Shivaji Maharaj Jayanti	Monday, 19th February, 2024
Mahashivratri	Friday, 08th March 2024
Holi (Second Day)	Friday, 25th March, 2024
Good Friday	Friday, 29th April, 2024
Gudhi Padwa	Tuesday, 09th April , 2024
Ramzan Id (Id-Ul-Fitar)	Thursday, 11th April, 2024
Dr.Babasaheb Ambedkar Jayanti	Sunday, 14th April, 2024
Shriram Navmi	Wednesday, 17th April, 2024
Mahavir Jayanti	Sunday, 21th April, 2024
Maharashtra Day	Wednesday, 1st May, 2024
Buddha pornima	Thursday, 23th May, 2024

Ashadhi Ekadashi	Thursday, 17th July 2024
Moharum	Thursday, 17th July 2024
Guru Pornima	Sunday, 21th July 2024
Independence Day	Thursday, 15th August, 2024
Rakshabandhan	Monday, 19th August, 2024
Pola	Monday, 2nd September, 2024
ShriGanesh Chaturthi	Saturday, 7th September, 2024
Gouri Poojan	Wednesday, 11th September, 2024
Id E-milab	Monday, 16th September, 2024
Anant Chaturdashi	Tuesday, 17th September, 2024
Mahatma Gandhi Jayanti/ Sarvapitri Darsha Amavasya	Wednesday, 2nd October, 2024
Dasara	Saturday, 12th October, 2024
Laxmi Pujan (Diwali)	Friday, 01 November 2024
Balipratipada	Saturday, 02 November 2024
Bhaubeej	Sunday, 03 November 2024
Guru Nanak Jayanti	Friday, 15 November 2024
Christmas Day	Wednesday, 25th December, 2024

Evidences of Success:

- This user-friendly digital calendar provides the flexibility to check on any device, like smartphones, tablets or computers.
- This attractive educational calendar is more preferred by students and users than traditional printed calendars or digital calendars in phones.
- Users can swiftly check full and no moon days as well as academic holidays on a click

Resources required:

- Basic Computer literacy
- Enthusiastic students to collect information and design calendar
- Proper knowledge about events and days to be added in calendar templets

Problems Encountered:

- As students do not have access to computer facilities at home, students and supervisor had to stay longer on working days to design the calendar.

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Best Practice - 2

Title of the practice:

Introducing Sports as an enabler for an inclusive and fit society

Objectives of the Practice:

- To Raise awareness about the significance of sports and being physically active in daily life.
- To Promote sports and physical fitness through events and activities.
- To Recognize and honour the student athletes.

The Context:

Activities relating to sports and physical education are essential components of human resource development, helping to promote good health, comradeship and a spirit of friendly competition, which, in turn, has a positive impact on the overall development of the personality of the youth. India celebrates National Sports Day every year on August 29, which is a special occasion dedicated to marking the spirit of sports in India. Apart from India's achievements in sports, this day emphasizes the importance of sports to keep us healthy and active. This day is celebrated to mark the contribution of India's legendary hockey player Major Dhyan Chand, who helped India dominate in the hockey games inspiring generations. The National Sports Day is more than just a celebration and a reminder of how sports enrich our lives and bring us closer as a community. Hence, Department of Physical Education and Sports decided to organize a week-long program of sports activities from 23 to 29 August 2023.

The Practice:

- Dr. R.D. Chandrawanshi, Director of Physical education and Sports, conveyed a motivating message to the students, emphasizing the importance of sports and physical activities in their daily routine.

- Principal Dr. V. D. Nanoty inaugurated the program, and in his opening speech, he explained the importance of sports for the physical and mental well-being of young people.

- Students and faculty members took the Fit-India Pledge, committing to lead healthy and active lives.

- During a complete sport week, various sports and athletic activities were organized, including badminton, Chess, table tennis, Running, Suryanamskar and Skipping Rope etc. With great team spirit and enthusiasm, the students exhibited their sportsmanship by participating in all the events organized by the Event Coordinator and sports committee members.

- The closing ceremony of the event took place on National Sports Day 29th August 2023.

Winners of the various events were awarded medals and certificates to recognize their achievements. Following table shows the result of event.

Result Sheet

Sr. No.	Event	Student Name	Class	Rank
1	**Badminton** (23/08/2023) **Men**	Sourabh Gaikwad	M.Sc. I	I
		Arjun Tayade	B.Sc. II	II
		Kalesh Waghmare	B.Sc. III	III
2	**Chess** (23/08/2023) **Men**	Shlok Deshpande	B.Sc. III	I
		Sachin Sabale	B.Sc. I	II
		Aditya Umbarkar	B.Sc. I	III
3	**Chess** (23/08/2023) **Women**	Prerna Tayade	B.Sc. I	I
		Gouri Chande	B.Sc. III	II
		Mehera Patil	B.Sc. I	III
4	**Badminton** (24/08/2023) **Women**	Aakanksha Karale	B.Sc. II	I
		Nandini Katre	B.Sc. I	II
		Pragati Labade	B.Sc. II	III
5	**Table Tennis** (25/08/2023) **Men**	Sahil Ashkan	B.Sc. II	I
		Vishal Sulkar	B.Sc. I	II
		Kuldip Ahirkar	B.Sc. III	III
6	**Table Tennis** (25/08/2023) **Women**	Falguni Saitwal	B.Sc. II	I
		Vidhi Pathak	B.Sc. II	II
		Pradnya Belokar	B.Sc. II	III
7	**100 Mts. Running** (26/08/2023) **Men**	Aditya Damodar	B.Sc. I	I
		Shubham Tale	B. Sc. I	II
		Om Nawale	B. Sc. III	III
8	**100 Mts. Running** (26/08/2023) **Women**	Sayali Mehare	B.Sc. III	I
		Prerna Bhojane	B.Sc. II	II
		Sakshi Metange	B.Sc. III	III
9	**400 Mts. Running** (26/08/2023) **Men**	Shubham Tale	B.Sc. I	I
		Dewant Shende	B.Sc. II	II
		Aditya Damodar	B.Sc. I	III
10	**400 Mts. Running** (26/08/2023) **Women**	Prerana Bhojane	B.Sc. II	I
		Sayali Mehare	B.Sc. III	II
		Sakshi Metange	B.Sc.III	III
11	**1500 Mts. Running** (26/08/2023) **Men**	Arjun Tayade	B.Sc. II	I
		Shubham Tale	B.Sc. I	II
		Dewant Shende	B.Sc. II	III

Sr. No.	Event	Student Name	Class	Rank
12	Suryanamskar (28/08/2023) Men	Rajesh Mahapatra	B.Sc. III	I
		Lokesh Sonone	B.Sc. I	II
		Dewant Shende	B.Sc. II	III
13	Suryanamskar (28/08/2023) Women	Dhanashree Ingle	B.Sc. III	I
		Mehara Patil	B.Sc. I	II
		Sayali Mehare	B.Sc. III	III
14	Skipping Rope (28/08/2023) Men	Kalesh Waghmare	B.Sc. III	I
		Lokesh Sonone	B.Sc. I	II
		Dewant Shende	B.Sc. II	III
15	Skipping Rope (28/08/2023) Girls	Sayali Mehare	B.Sc. III	I
		Yashika Pranjale	B.Sc. I	II
		Divya Pande	B.Sc. I	III

Evidence of Success:

- Students were encouraged to embrace physical fitness, regular exercise and a healthy lifestyle in addition to their academic pursuits.
- This activity also proved to be helpful for creating a sense of unity as well as foster social harmony and discipline among the participants.

Resources required:

- Motivating and experienced Event Coordinator, sports committee members and devoted participants.
- Indoor and outdoor facilities to conduct the event.

Problems Encountered:

- Being science college, students have some mental pressure to prioritize academics over sports.
- Insufficient playground for conduction of outdoor games.

National Sports Day   29th August 2023

श्री रा.ल.तो. विज्ञान महाविद्यालय,अकोला

शारीरिक शिक्षण व क्रीडा विभाग (कनिष्ठ व वरिष्ठ)

२९ ऑगस्ट राष्ट्रीय क्रीडा दिन निमित्त महाविद्यालयीन क्रीडा स्पर्धा

दिनांक : २३ ते २९ ऑगस्ट २०२३

हॉकीचे जादुगर मेजर ध्यानचंद यांच्या जयंती निमित्त महाविद्यालयात राष्ट्रीय क्रीडा दिनाचे आयोजन करण्यात येत आहे. पुढील वेळापत्रकानुसार पुढील क्रीडा प्रकारात सहभाग घेण्यासाठी सर्व विद्यार्थी व विद्यार्थींनी उपस्थित राहावे.

Sr. No	Event	Gender	Date	Time	Venue
1	Badminton (Sr. College)	Boys	23/08/2023	11:30 AM	Auditorium Hall / Badminton Hall
2	Chess (Sr. College)	Boys & Girls	23/08/2023	1:30 PM	Auditorium Hall / Badminton Hall
3	Badminton (Sr. College)	Girls	24/08/2023	11:30 AM	Auditorium Hall / Badminton Hall
4	Table Tennis (Sr. College)	Boys & Girls	25/08/2023	11:30 AM	Auditorium Hall / Badminton Hall
5	Running 100, 400, 1500	Boys & Girls	26/08/2023	8:00 AM	Vasant Desai Stadium, Akola
6	Skipping Rope (Sr. College)	Boys & Girls	28/08/2023	2:30 PM	Auditorium Hall / Badminton Hall
7	Suryanamaskar (Sr. College)	Boys & Girls	28/08/2023	3:30 PM	Auditorium Hall / Badminton Hall
8	Dodgeball (Jr. & Sr. College)	Boys & Girls	29/08/2023	1:00 PM	Near Boxing Ring
9	Prize Distribution & Closing Ceremony		29/08/2023	4:00 PM	Near Boxing Ring

महत्वाची सूचना : आपण महाविद्यालयात सत्र २०२३–२०२४ मध्ये प्रवेश घेतलेला आहे. या संदर्भातील प्रवेश शुल्क भरलेली पावतीची मुळ व झेरॉक्स प्रत सादर करणे आवश्यक आहे. पावती सॉफ्ट कॉपीमध्ये आहे नंतर देतो अशी कारणे चालणार नाही. पावती नसल्यास आपण सहभागी होवूच शकणार नाही यांची विशेष नोंद घेणे.

सहभागी स्पर्धक जिंवा अन्य विद्यार्थ्यांनी क्रीडा पोषाख (Sports Kit) घातल्यास जिंवा न घातल्यास त्यांना या स्पर्धेपुरती महाविद्यालयातून कोणतीही अडवण जाणार नाही.

सत्र २०२३–२०२४ मध्ये महाविद्यालयात प्रवेशित सर्व विद्यार्थी हे उपरोक्त क्रीडा प्रकारात सहभागी जिंवा प्रेक्षक म्हणून सुध्दा उपस्थित राहू शकतात.

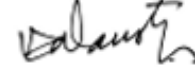कोणत्याही विद्यार्थ्याच्या मित्रांना व नातेवाईकांस प्रवेशास सक्त मनाई आहे.

(डॉ.प्रांचन लाटी)   (डॉ.राजेश चंद्रवंशी)   (डॉ.विजय नानोटी)
शा.शि.शिक्षक   क्रीडा व शा.शि.संचालक,   प्राचार्य,
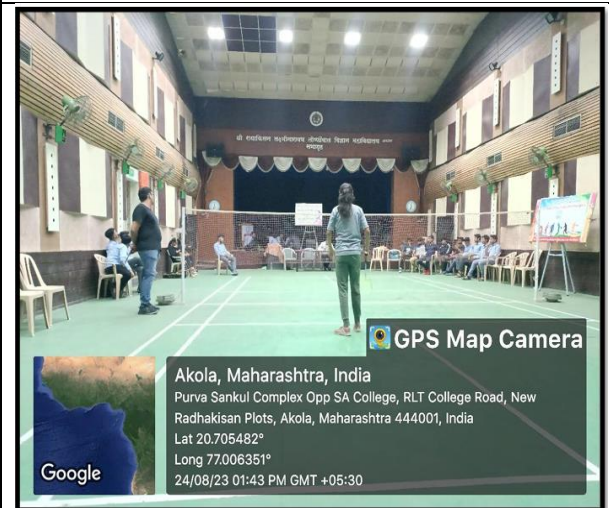   श्री रा.ल.तो.विज्ञान महा.,अकोला

दि. १७/०८/२०२३

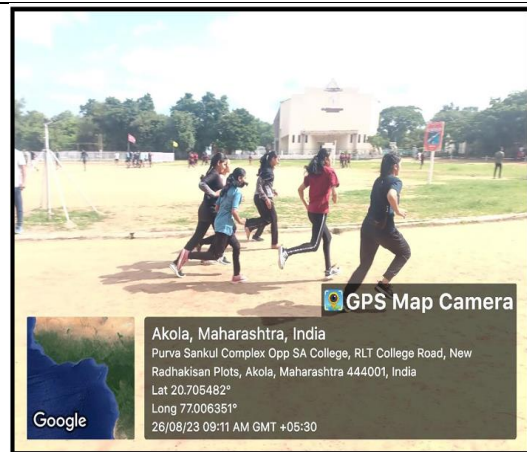Opening Ceremony of Sports Week

Badminton

Table Tennis

Chess

Running

Skipping Rope and Suryanamaskar

Dodgeball (Men and Women)

Prize Distribution

Team involved in the event

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