

R. C. Patel Educational Trust's

R. C. Patel Arts, Commerce and Science College

Shirpur-425405, Karvand Naka, Dist.- Dhule (Maharashtra)

E-mail - principal@rcpasc.ac.in

Affiliated to: K. B. C. North Maharashtra University, Jalgaon-425001

Self Study Report (SSR): 2024 (4th Cycle)



Criteria - 4 Infrastructure and Learning Resources

Key Indicator - 4.3 IT Infrastructure



Metric No. - 4.3.1 (Q₁M)

Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection

Submitted to

National Assessment and Accreditation Council, Bangalore



R. C. Patel Educational Trust's

R. C. Patel Arts, Commerce and Science College Hon. Bhupeshbhai Patel

Karvand Naka, Shirpur 425405, Dist - Dhule, Maharashtra

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President

Principal

Dr. D. R. Patil

Date: 15/06/2024

Declaration

This is to declare that, the information, reports, true copies of the supporting documents, numerical data etc. submitted in these files is verified by Internal Quality Assurance Cell (IQAC) and it is correct as per the office record.

This declaration is for the purpose of NAAC accreditation of the HEI for the 4th cycle assessment period 2018-19 to 2022-23.

Place: Shirpur

Date: 15/06/2024

Dr. Sandip P. Patil **IQAC Co-ordinator**

IQAC Coordinator R. C. Patel Educational Trust's R. C. Patel Arts, Commerce and Science College Shirpur, Dist.-Dhule (M.S.) 425405



Dr. D. R. Patil **IQAC Chairman & Principal**

PRINCIPAL R. C. Patel Educational Trust's R. C. Patel Arts, Commerce and Science College Shirpur, Dist.-Dhule (M.S.) 425405

❖ Outline of available IT Infrastructure:

Sr. No	Particulars Particulars	Page No		
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	2.2 Bandwidth for Internet Connection			
3	Emergency Power Back-up Facility	23		
	- Solar Panel	23		
	- Generator			
	- Battery Back-up Facility			
4	College Security	25		
	- CCTV			
5	Online Software:	30		
	- Zoom			
	- Times Lab			
	- Microsoft Cloud ERP solutions			
	- Microsoft office 365			
	- Fee payer (To pay admission and Examination Fee online)			
	- Turnitin (For Checking Plagiarism in scientific writing)			

1. IT-Facilities Available:

1.1 IT Infrastructure: -

Sr. No.	Nature	Quantity and Description
1.	Computers Available – Administrative Purpose	30
2.	Computers Available – Academic Purpose	265
3.	Printers Available – Canon, HP, All in one	16
4.	Projector	9
5.	LCD	1
6.	Smart Board (Senses)	18
7.	Scanner	2
8	Xerox Machine	3
9.	Laptop	4
10.	CCTV	35
11	Internet Service Provider	 Reliance JIO info comm Ltd. (200 MBPS) Ishan Netsol Pvt. Ltd (175 Mbps) BSNL (500 MBPS)
12	Broad Band Speed	875 Mbps
13	Wi-Fi Hubs	NET GEAR
14	Software's Used	
	Online Public Access Catalogue	LIBMAN
	Operating System	Windows 8 & Windows 10
	Antivirus	Quick Heal
15	Emergency Power Back-up Facility	
	Generator - 01	Available
	Solar - On Grid	Available
	Inverter / Battery Back-up	Available
	Online-UPS	Available

1.2 Class Rooms, Seminar Halls with IT-Infrastructure:

Sr. No.	Room Number or Name	Avail IT infrastructure Facility
1.	206	Smart board, LAN, Internet, Wi-Fi
2.	208	Smart board, LAN, Internet, Wi-Fi
3.	302	Smart board, LAN, Internet, Wi-Fi
4.	303	Smart board, LAN, Internet, Wi-Fi
5.	304	Smart board, LAN, Internet, Wi-Fi
6.	305	Smart board, LAN, Internet, Wi-Fi
7.	306	Smart board, LAN, Internet, Wi-Fi
8.	307	Smart board, LAN, Internet, Wi-Fi
9.	312	Smart board, LAN, Internet, Wi-Fi
10.	313	Smart board, LAN, Internet, Wi-Fi
11.	316	Smart board, LAN, Internet, Wi-Fi
-	Computer Science	Projector: 01, LAN, Internet,
12.	Laboratory – I	Smart Board:01, Printer, Wi-Fi,
13.	Computer Science Laboratory – II	Projector:01, LAN, Internet, Smart Board: 01, Printer, Wi-Fi
14.	Computer Science	Projector: 01, Internet
17,	Laboratory – III	Smart Board: 01, Printer, Wi-Fi
15.	Computer Science Laboratory – IV	Smart, Internet, LAN Smart Board 01 + Printer
16.	Computer Science Laboratory – V	LAN, Smart Board 01, Internet
17.	Chemistry Laboratory - I	Projector:01 + LAN, Wi-Fi
18.	Chemistry Laboratory - II	LAN, Internet, Smart Board 01 + Printer, Wi-Fi
19.	Physics Laboratory	Wi-Fi, Projector :01, LAN
		, Internet, Smart Board :01
20.	Mathematics	Wi-Fi, LAN, Internet
21.	Microbiology Laboratory	Wi-Fi, Internet, Smart
	Electronics Laboratory	Board: 01, LAN, Printer:02 Wi-Fi, LAN, Internet, Smart
22.	Electionics Laboratory	Board: 01, Printer
23.	Biotechnology Laboratory	Wi-Fi, LAN, Internet, Smart Board: 01
		Smart Board: 01

Criterion IV Infrastructure and Learning Resources

Sr. No.	Room Number or Name	Avail IT infrastructure Facility
24.	Zoology Laboratory	Wi-Fi, LAN, Internet, Smart Board: 01
25.	Botany Laboratory	Wi-Fi, LAN, Internet, Smart Board: 01
26.	Geography Laboratory	Wi-Fi
27.	Seminar Hall 1	Wi-F, LAN, Internet, Smart Board:01
28.	Seminar Hall 2	Wi-Fi, LAN, Smart Board:01

> Available IT infrastructure Facilities: Smart Class Rooms









> Seminar Hall -1



➤ Seminar Hall- 2

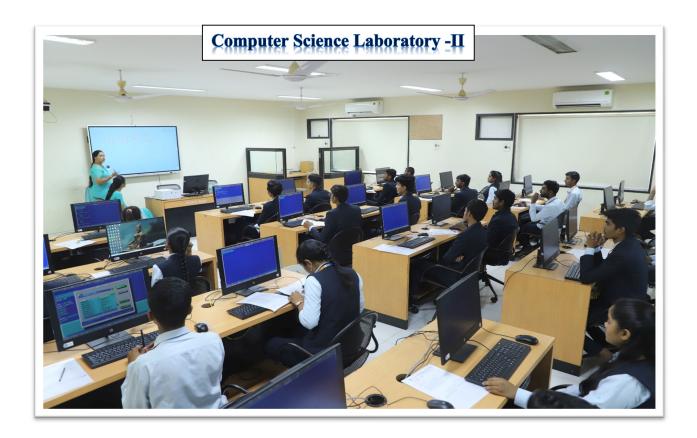


1.3 Available IT Infrastructure in Computer Science department:

Laboratories in the computer science department:



Computer Make and Model	System Configuration	Quantity
HP Pro-One 600 G6 22 All-in-	Intel Core – i5-10500T CPU @2.30GHz,	25
One PC	8.00 GB RAM, 500 GB SSD, DVD-RW,	
	Web Cam, Inbuilt Speaker, Keyboard-Mouse	
HP Pro-One 600 G6 22 All-in-	Intel Core – i5-10500T CPU @2.30GHz,	01
One PC (Server)	8.00 GB RAM, 500 GB SSD, DVD-RW,	
	Web Cam, Inbuilt Speaker, Keyboard-Mouse	
Printer	CANON Printer LBP 2900 laser with 400 x 600 dpi	01
RICHO Overhead Projector	Connectivity Type: HDMI, LAN	01
	Projection Model: Front Projection-Desktop	
	Projection Distance: 3.5 - 4 m	
'Senses' Smart Board 75 inch	i5 10 th generation @2.11 GHz, 120GB SDD,	01
	1TB HDD, 8GB Ram	



Computer Make and Model	System Configuration	Quantity
HP Pro One 600 G6 22 All-	Intel Core – i5-10500T CPU @2.30GHz,	25
in-One PC	8.00 GB RAM, 500 GB SSD, DVD-RW,	
	Web Cam, Inbuilt Speaker, Keyboard-Mouse	
Printer	Epson M1120 Inject Printer	01
RICHO Overhead Projector	Connectivity Type: HDMI, LAN	01
	Projection Model: Front Projection-Desktop	
	Projection Distance: 3.5 - 4 m	
'Senses' Smart Board 75	i5 10 th generation @2.11 GHz, 120GB SDD,	01
inch	1TB HDD, 8GB Ram	

Criterion IV Infrastructure and Learning Resources



Computer Make and Model	System Configuration	Quantity
HP Pro One 400 All in One	Intel Core – i3-4170T (4th Generation)	25
Desktop PC	3.20GHz CPU, 4 GB RAM, 500 GB HDD,	
	DVD-RW, Web Cam, Inbuilt Speaker,	
	Keyboard-Mouse	
RICHO Overhead Projector	Connectivity Type: HDMI, LAN,	01
	Projection Model: Front Projection-Desktop	
	Projection Distance: 3.5 - 4 m	
'Senses' Smart Board 75	i5 10 th generation @2.11 GHz, 120GB SDD, 01	
inch	1TB HDD, 8GB Ram	

Criterion IV Infrastructure and Learning Resources



Computer Make and Model	System Configuration	Quantity
HP Pro One 400 All in One	Intel Core – i3-4170T (4th Generation) 3.20GHz	56
Desktop PC	CPU, 4 GB RAM, 500 GB HDD, DVD-RW,	
	Web Cam, Inbuilt Speaker, Keyboard-Mouse	
Printer	Epson M1120 Inject Printer	01
'Senses' Smart Board 75 inch	i5 10 th generation @2.11 GHz, 120GB SDD,	01
	1TB HDD, 8GB Ram	



Computer Make and Model	System Configuration	Quantity
HP Pro One 400 All in One	Intel Core – i3-4170T (4th Generation) 3.20GHz CPU,	40
Desktop PC	4 GB RAM, 500 GB HDD, DVD-RW, Web Cam,	
	Inbuilt Speaker, Keyboard-Mouse	
'Senses' Smart Board 75	i5 10 th generation @2.11 GHz, 120GB SDD, 1TB	01
inch	HDD, 8GB Ram	

Language Laboratory





Computer Make and Model	System Configuration	Quantity
HP Pro One 400 All in One	Intel Core – i3-4170T (4th Generation)	15
Desktop PC	3.20GHz CPU,	
	4 GB RAM, 500 GB HDD, DVD-RW,	
	Web Cam, Inbuilt Speaker, Keyboard-Mouse	

Section 2 Geotag Photo Collage of IT Infrastructure



1.4 IT Infrastructure available in administrative offices, other Departments:

Sr. No.	Room no.	Area	Available IT Facilities
1.		Principal Cabin	P.C1, Printer with Scanner- 1, CCTV-1, LAN, Internet
2.		Vice- Principal Cabin	P.C2, Printer- 2, Internet
3.		Waiting lobby	CCTV-1, Internet
4.		Administratio n Office	P.C9, Printer-5 CCTV-3, Photocopy Machine-1, Internet
5.		Ladies staff room	P.C12, CCTV-1, LAN, Internet
6.		Common staff room	P.C32, CCTV-1, LAN, Internet
7.	001	NSS Office	P.C1 Internet
8.		Sport Room	P.C1, Printer-1, LAN, Internet
9.	104	Library	P.C03, Xerox-1, Printer-1, Scanner-1, Barcode Machine-1
10.	105	Reading Room	P.C09, LAN, Internet
11.	204	Examination Office	P.C04, CCTV-2, Printer-3, LAN, Internet
12.	209	Physics Research Lab	P.C-2, LAN, Internet
13.	210	Language Lab	P.C15, LAN, Internet
14.	301	Multimedia/ Seminar Hall	Smart board-1, LCD projector-1, LAN, Internet
15.	314	IQAC Office	Smart board-1, P.C2, LAN, Internet
16.		Seminar Hall 2	LAN, Smart Board, LAN, Internet, Wi-Fi
17.		Corridor- Ground Floor	06 -CCTV
18.		Corridor-I	06 -CCTV
19.		Corridor-II	06 -CCTV
20.		Corridor-III	06 -CCTV

> Administrative office:



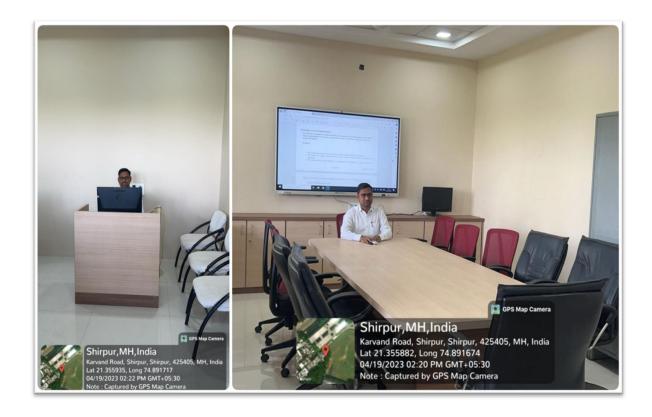
MKCL Office:



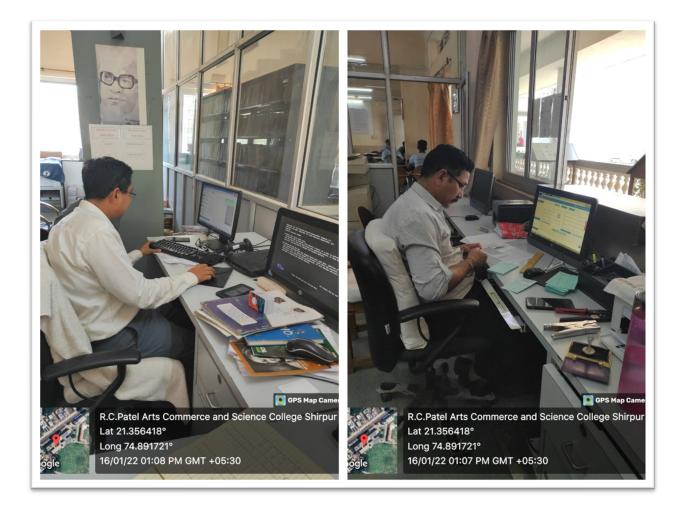
> Examination office: online question paper delivery center:



> IQAC Office:



➤ Library: A Knowledge Resource Center:





> Other Departments:

Sr. No.	Department	IT Facilities Available
1	Biotechnology	Computer:06, Smart Board:01, Internet, LAN, Wi-Fi
2	Botany	Computer: 02, Smart Board: 01, Internet, LAN, Wi-Fi
3	Zoology	Computer:1, Smart Board: 01, Internet, LAN, Wi-Fi
4	Microbiology	Computer: 06, Printer :02, Smart Board: 01, LAN, Wi-Fi
5	Chemistry	Computer: 04, Printer:1, Smart Board: 01, Internet, LAN, Wi-Fi
6	Physics	Computer: 02, Smart Board, Internet, LAN, Wi-Fi
7	Electronics	Computer: 10, Printer: 1, Internet, LAN, Smart Board 01, Wi-Fi
8	Mathematics	Computers :01, LAN, Internet

2. Internet Service Provider and Bandwidth for Internet Connection:

2.1 Shared internet Connectivity:

The Modern IT infrastructure of R. C. Patel College is designed to accommodate the various demands of staff, educators, and students. Together, RCPET and RCPSES provide shared internet access. The sturdy NET GEAR router powers the Wi-Fi network.

This guarantees constant connectivity throughout the college, enabling easy access to online resources and communication. The college has shared access to a total of 875 MBPS (1:1) premium leased lines from Reliance JIO Infocom Ltd, Ishan net sol Pvt. Ltd, and BSNL for internet connectivity. This improves everyone on campus's academic experience by ensuring immediate and consistent access to online resources, research databases, and interactive platforms secured by the FortiGate 400-F firewall.

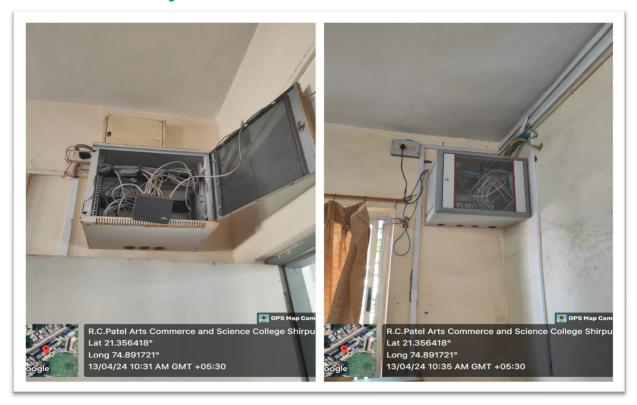
The Director's Letter of Shared Internet Access on the Campus:



2.2 Internal Local Area Network:

- Local area Network (LAN) is built by a certified service provider. (AVAYA Certified Systemax Structured Connectivity). The agreement is valid for 20 Years. (Up to 14 March 2022)
- Cable Type CAT 6 Cable Network (250 MHz 1000 BASE-TX)
- LAN Switch 10/100 Mbps (24+8 Port) (Make 3Com. & D-Link) 08 qty.
- LAN Switch Cisco catalyst 9200L 24 port + 4 * 10 G) 01qty.

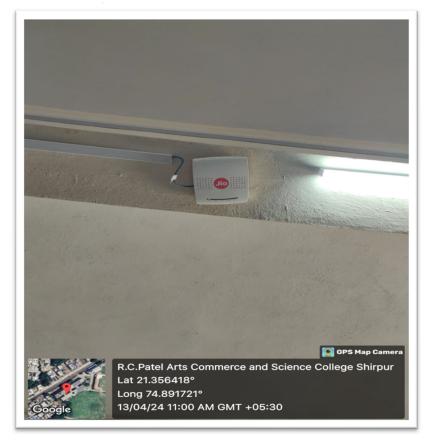
➤ Local Area Network Splitters:



2.3 Wi-Fi:

Wi-Fi system is installed in with NET GEAR with various node spans across the various areas of college campus/building.

➤ Installed Wi-Fi Ports;





3.0Emergency Power Back-up Facility:

The college has made a substantial investment in a reliable power backup system in order to reduce the dangers related to blackouts. This comprises a generator that can sustain the continuous operation of vital systems and equipment by supplying backup power during protracted blackouts. In addition, the college has included off-grid and on-grid rooftop solar power solutions as part of its dedication to energy efficiency and sustainability.

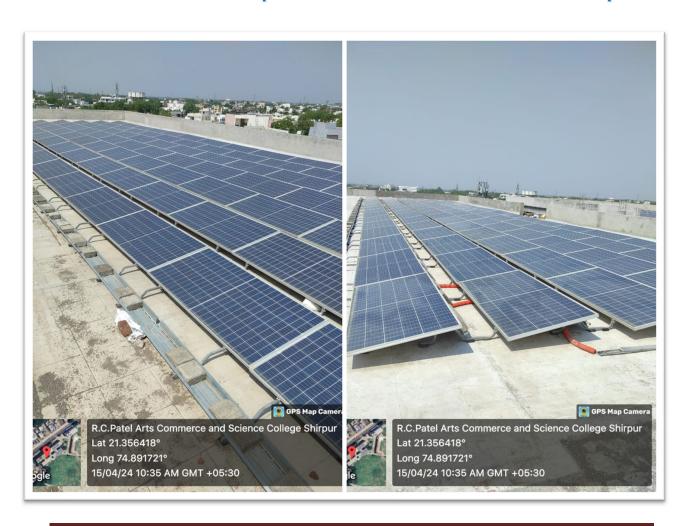
The college has installed inverter/battery backup systems in addition to major power backup sources to offer instantaneous power delivery during brief outages or fluctuations. Additionally, strategically placed uninterruptible power supply (UPS) units guard delicate equipment from power surges and guarantee uninterrupted operation.



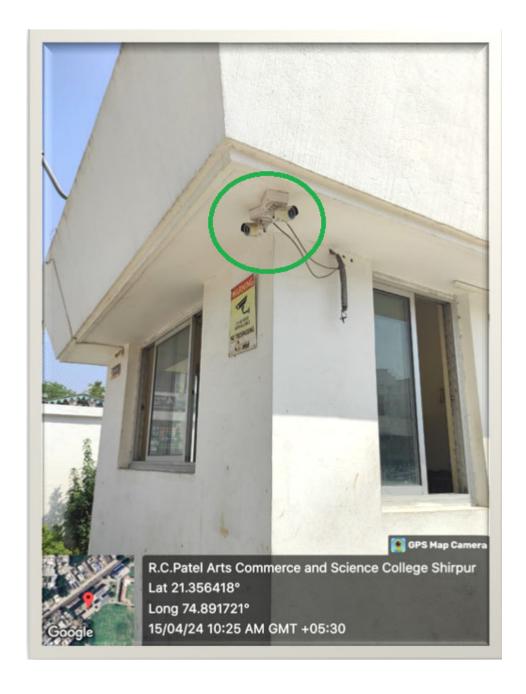
> UPS Battery Backup Room:



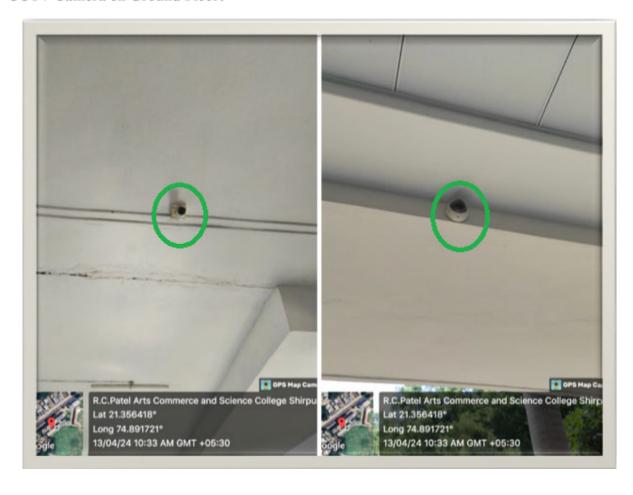
Solar Panels Unit 1 – On Grid – Output 32kw Solar Panels Unit 1- Off Grid – Output 15kw



- 4. College Security (Through Security CCTV Camera)
- **4.1 CCTV Camera:**
- **CCTV Camera on Main Gate:**



CCTV Camera on Ground Floor:

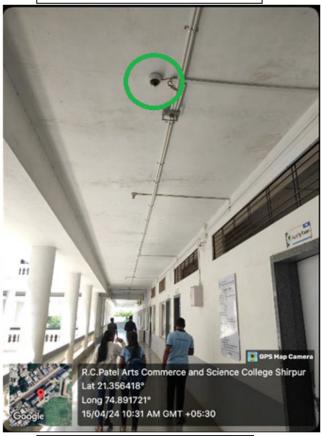


Criterion IV Infrastructure and Learning Resources

CCTV Camera on first floor

CCTV Camera on Second floor

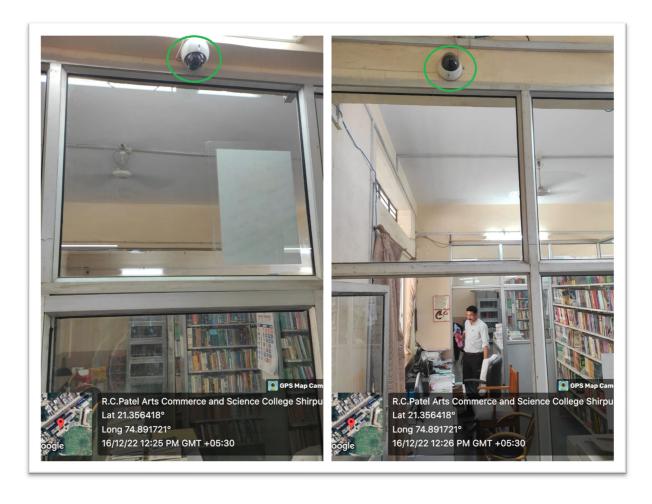








CCTV Camera in Library:



5.0 Software's:

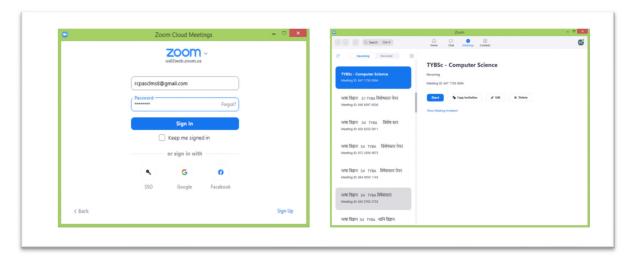
5.1 Zoom: a proprietary video telephony software program:

The Covid-19 pandemic completely disrupted the academic year 2020–2021, and thus educators were compelled to acquire, use, and make use of ICT–enabled resources.

The use of laptops, pcs and the internet by both teachers and pupils has become standard. The institute has invested in Zoom, a live streaming software subscription, for its online instruction.

The institute bought a subscription to this programme to fulfil its needs for online instruction. Zoom's trustworthy; secure video platform supports all of your communication needs, including webinars, online events, chat, phone calls, and meetings.

Scheduling of Zoom Meeting:



• Scheduling recurring Zoom cloud meetings and commencement



• Attendance for a lecture can be verified online of joined students.

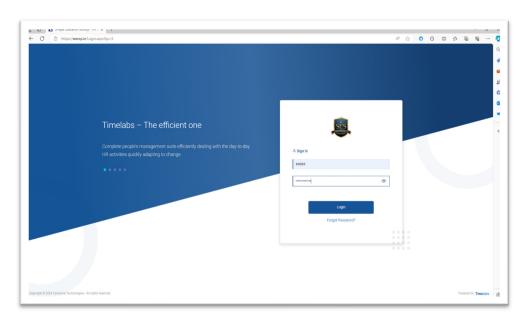
Online -lecture Report:

	Detailed Online Lecture Report (Duration)for Individual Teacher											
	06 Jul-11 Jul,2020											
Sr. No.	Name of Teacher	Dept.	Lecture Date	Zoom Meeting ID	Topic of the lecture	Lecture Duration (Minutes)	No. of students attended lecture	Sub. Name				
1	A.J.Maheshwari	Computer Science	07-06-2020	847 1758 0694	Goal of System software: User Convineance	58	50	CS_501 System Programmi				
2	A.J.Maheshwari	Computer Science	07-06-2020	847 1758 0694	User convineance	45	40	CS_501 System Programm				
3	A.J.Maheshwari	Computer Science	07-07-2020	847 1758 0694	Goals: Efficiency and non-interferance	42	51	CS_501 System Programm				
4	A.J.Maheshwari	Computer Science	07-08-2020	847 1758 0694	Components of System Software	45	47	CS_501 System Programm				
5	A.J.Maheshwari	Computer Science	07-09-2020	847 1758 0694	Software application domains	61	21	CS_301 Software Enginee				
6	A.J.Maheshwari	Computer Science	07-10-2020	847 1758 0694	Software application domains	47	20	CS_301 Software Enginee				
7	A.J.Maheshwari	Computer Science	07-11-2020	847 1758 0694	Legacy Software	46	20	CS_301 Software Enginee				
8	A.J.Maheshwari	Computer Science	07-11-2020	847 1758 0694	defining software engineering	45	15	CS 301 Software Enginee				

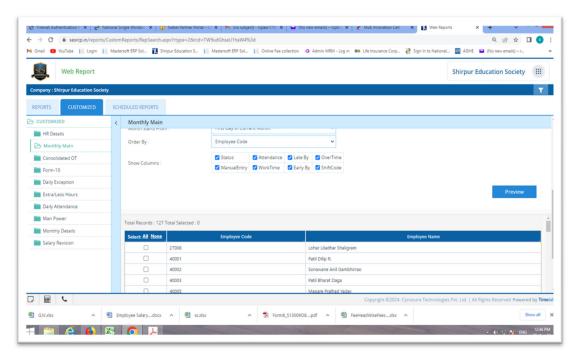
• Report on Online Lecture for Specific Teacher

5.2 Times Lab online software:

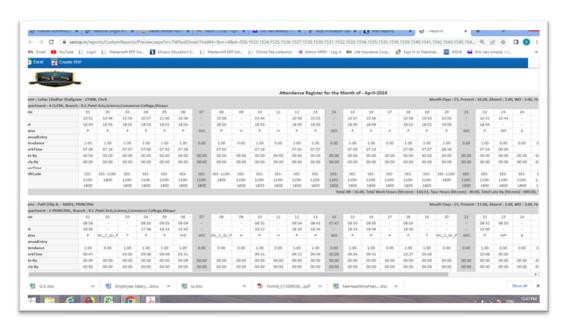
- This online biometric attendance software is provided by the institute.
- Leave management, muster, shift scheduling, and so forth are all handled here.
- The institution additionally created an Android-based mobile app.



• Login screen: URL: sesrcp.in

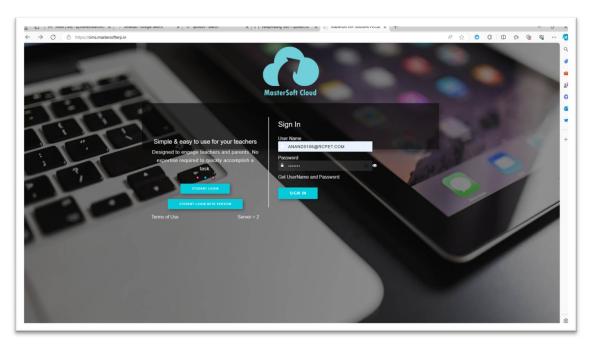


• Web Report of times lab

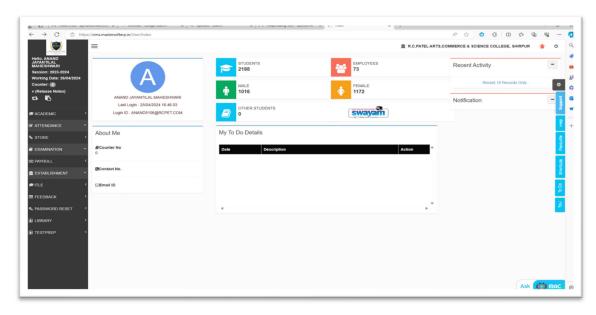


• Monthly Report of Employees

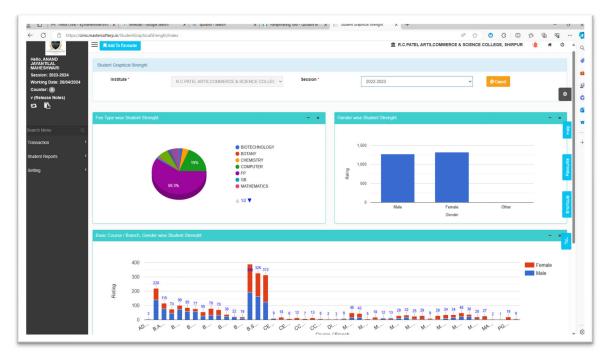
5.3 Microsoft Cloud ERP solutions:



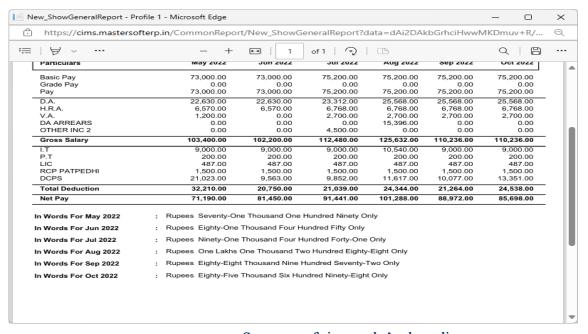
• Login Screen: URL: https://cims.mastersofterp.com



User account



Subject wise admission Statistics



Summary of six months' salary slips

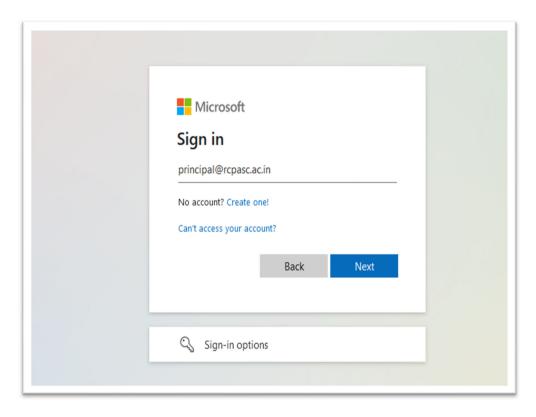
> Faculty Users of Microsoft cloud ERP solutions:

Sr. No.	User_Name	User ID
1.	Bhanudas Suresh Panchabhai	BHANUDASS <u>102@RCPET.COM</u>
2.	Rajanikant Vasant Sonar	RAJANIKANTS094@RCPET.COM
3.	Anand Jayantilal Maheshwari	ANANDS106@RCPET.COM
4.	Anil Gambhirrao Sonawane	ANIL5069@RCPET.COM
5.	Arifkhan Rahimkhan Pathan	ARIFKHANS118@RCPET.COM
6.	Arun Madhukar Patil	ARUNS708@RCPET.COM
7.	Avinash Arun Patil	AVINASH5679@RCPET.COM
8.	Bansilal Tukaram Chaudhari	BANSILALS116@RCPET.COM
9.	Bhart Daga Patil	BHART5060@RCPET.COM
10.	Damayanti Ratilal Patil	DAMAYANTI5084@RCPET.COM
11.	Dashrath Ukha Patel	DASHRATH5113@RCPET.COM
12.	Dilip Atmaram Patil	DILIPS076@RCPET.COM
13.	Dilip Ramsing Patil	DILIP5054@RCPET.COM
14.	Eknath Ramdas Marathe	EKNATH5122@RCPET.COM
15.	Ganesh Rajaram Sonar	GANESH5722@RCPET.COM
16.	Ganesh Rajaram Sonar	GANESH5111@RCPET.COM
17.	Harishchandra Bhila Patil	HARISHCHANDRA5087@RCPET.COM
18.	Harshada Raman Patil	HARSHADAS110@RCPET.COM
19.	Jyoti Pradip Mahashabde	JYOTI5085@RCPET.COM
20.	Kamlakar Raman Patil	KAMLAKAR5105@RCPET.COM
21.	Mahendra Chaitram Agale	MAHENDRA5091@RC.PET.COM
22.	Milind Bhagwanrao Bachute	MILIND5096@RCPET.COM
23.	Prakash Vana Mahajan	PRAKASH5120@RCPET.COM
24.	Pralhad Yadav Magare	PRALHAD5070@RCPET.COM
25.	Raghunath Pandharinath Mahajan	RAGHUNATH5092@RCPET.COM
26.	Raju Sitaram Pawar	RAJU5095@RCPET.COM
27.	Raju Onkar Waghamare	RAJU5114@RCPET.COM
28.	Ramakant Ambadas Chaudhari	RAMAKANTA5109@RCPET.COM
29.	Ramesh Dhanraj Jadhav	RAMESH5098@RCPET.COM
30.	Ramsing Rajya Vasave	RAMSING5100@RCPET.COM
31.	Ratneshwar Champaklal Bhavsar	RATNESHWAR5107@RCPET.COM
32.	Ravindra Himmatrao Patil	RAVINDRA5134@RCPET.COM
33.	Sandesh Ravindrasing Rajput	SANDESHS298@RCPET.COM
34.	Sandip Prakash Patil	SANDIP5108@RCPET.COM
35.	Sanjay Gorakh Bachhav	SANJAY5062@RCPET.COM
36.	Sanjay Madaku More	SANJAY5112@RCPET.COM
39.	Shiledar Manshi Pawara	SHILEDAR5123@RCPET.COM
40.	Shirish Gorakh Koli	SHIRISH5121@RCPET.COM
41.	Shivaji Rahemal Padavi	SHIVAJIS119@RCPET.COM
42.	Subhash Ramsingh Rajput	SUBHASH5115@RCPET.COM
43.	Sudhakar Sitaram Chaudhari	SUDHAKAR5074@RCPET.COM
44.	Sunil Dhondu Mone	SUNIL5104@RCPET.COM
45.	Sunil Murlidhar Patil	SUNIL5103@RCPET.COM

5.4 Microsoft Office 365:

Microsoft 365 is a product family that includes cloud-based services, productivity software, and collaboration tools. It includes programs that were previously marketed under the name Microsoft Office (including Word, Excel, PowerPoint, and Outlook on Microsoft Windows, mac OS, mobile devices, and the web), enterprise products and services related to these products like Exchange Server, SharePoint, and Viva Engage, and online services like Outlook.com, OneDrive, Microsoft Teams. It also includes subscription plans that include various items, such as hosted email and intranet services, as well as subscription-based licensing for desktop and mobile software.

RCPSES provides shared access to this facility for the institute. The principal's accountant and clerk are assigned Microsoft 365 accounts to manage the payroll and fee modules.



Login page: URL: https://www.office.com/

> Office 365 home page



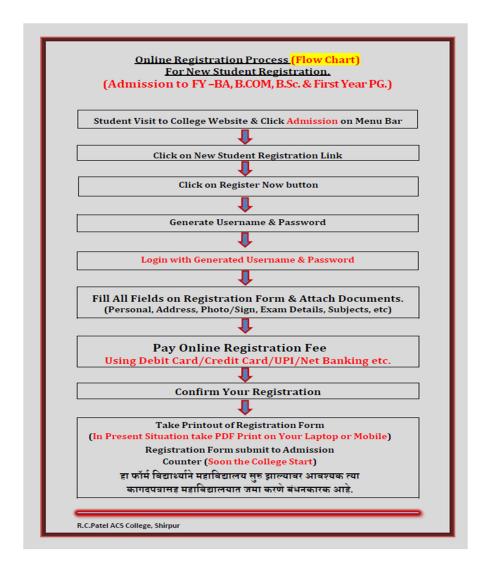
> Microsoft office 365 account details:

Society	College Name	Principal email ID	Registrar /	
/Trust			Office email ID	
RCPET	R.C. Patel Arts, Commerce and Science College	principal@rcpasc.ac.in	office@rcpasc.ac.in	

5.5 Fees Payer Software:

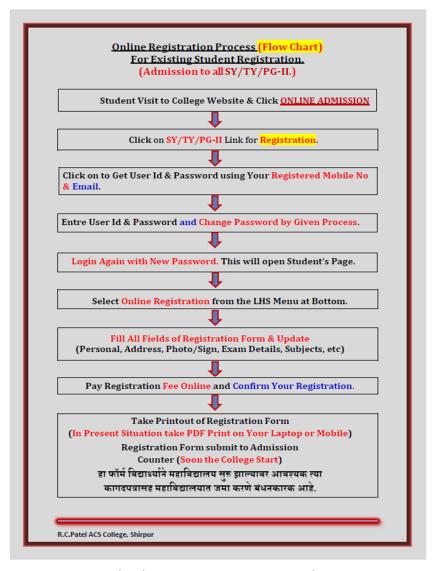
This online software allows making registration to admission process and after conforming registration with administration office, the admission confirmation and fees will be paid online.

5.5.1 Online Registration process for New Student Registration:



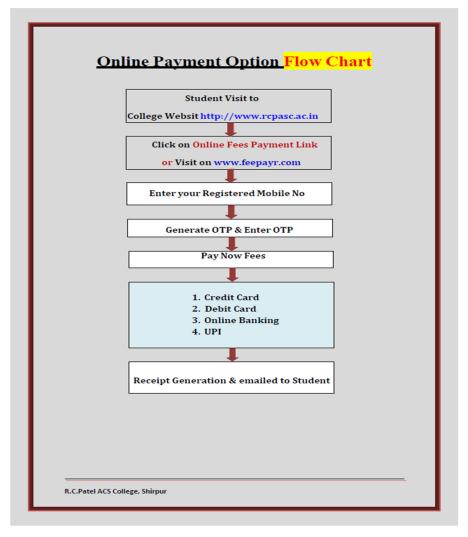
Registration process of 1st year Undergraduate and Post graduate courses

5.5.2 Online Registration Process for Existing Students:



Registration process of 2nd /3rd year Undergraduate and 2nd Post graduate courses

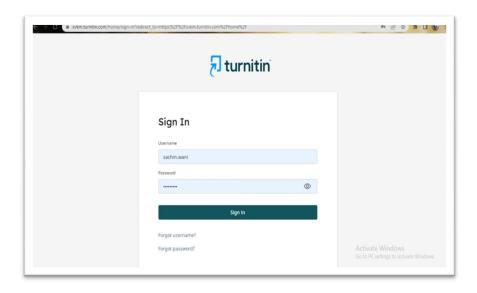
5.5.3 Online fees payment:



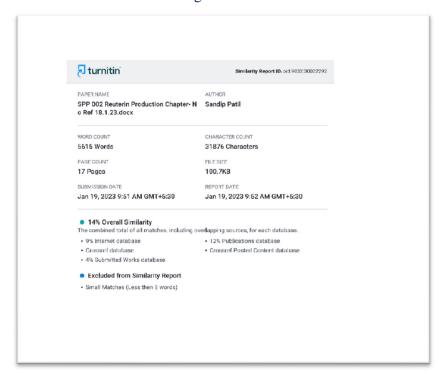
On line Payments Options

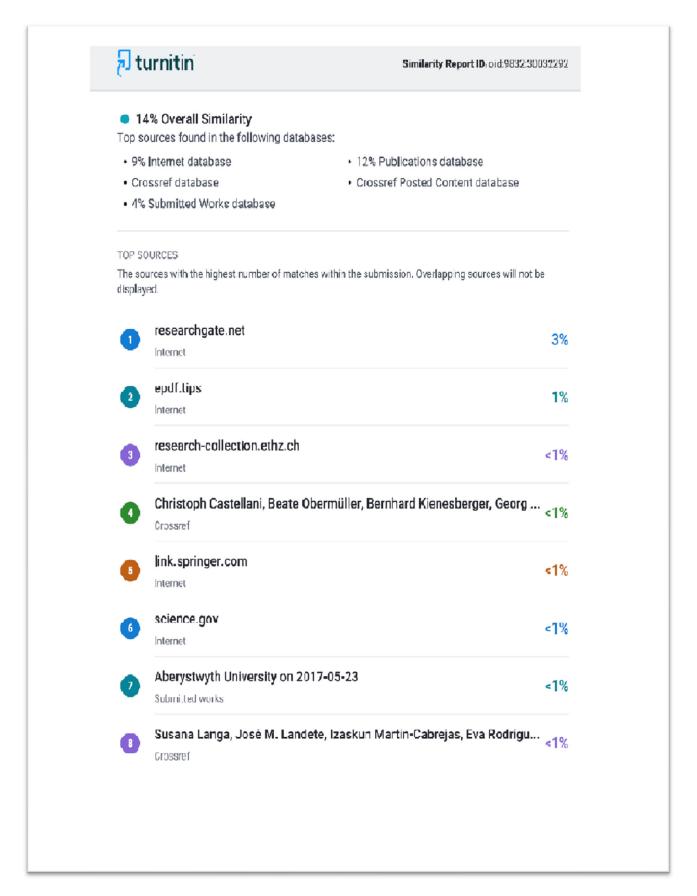
5.6 Turnitin: Online plagiarism checker software:

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