



SETH GYANIRAM BANSIDHAR PODAR COLLEGE

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Recognition of college under Section 2(f)/12(B), UGC Act, 1956
Affiliated to Pandit Deendayal Upadhyaya Shekhawati University, Sikar

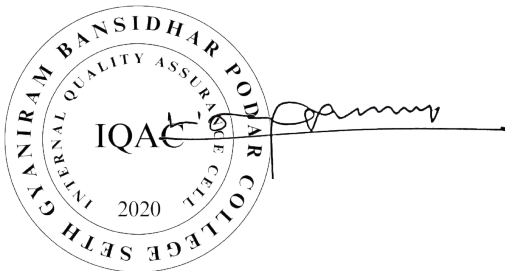


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AQAR 2023-24

2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process. Write description in maximum of 200 words.



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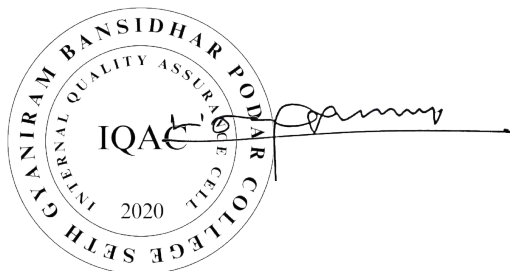


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USE of ICT ENABLED TECHNIQUES BY THE FACULTY

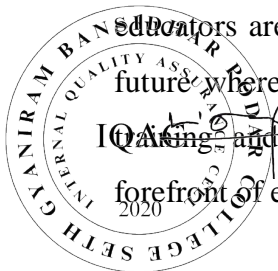
The faculty at our institution is actively incorporating Information and Communication Technology (ICT) into their teaching methodologies, fostering an enriched learning environment. With a commitment to student-centric education, teachers are utilizing various ICT-enabled techniques and tools to make the learning experience more dynamic and engaging.

In our e-Classrooms, equipped with interactive projectors, computers, and robust internet connectivity, faculty members are integrating technology seamlessly into their lectures. These interactive tools allow for more visual and interactive presentations, captivating students' attention and enhancing their understanding of the subject matter. Whiteboards, audio systems, and other facilities further contribute to creating a tech-savvy learning space.

One of the significant aspects is the faculty's embrace of online platforms such as Google Classroom, Google Meet, Webex, and Zoom. These platforms have become essential tools, especially during the pandemic, allowing teachers to conduct virtual classes, share study materials, and administer assessments efficiently. Faculty members have adapted to these platforms to ensure a smooth transition to online learning, maintaining the continuity of academic activities.

Moreover, the institution places a strong emphasis on continuous training for faculty members to stay updated with emerging ICT tools and techniques. This proactive approach ensures that teachers are well-equipped to integrate new technologies into their teaching practices, creating an environment where both educators and students can thrive in the digital era.

In essence, the faculty's use of ICT-enabled techniques reflects a commitment to providing a contemporary and effective learning experience. By harnessing technology, educators are not only making lessons more interactive but also preparing students for a future where digital literacy is increasingly vital. The institution's investment in faculty training and cutting-edge infrastructure underscores its dedication to staying at the forefront of educational innovation.



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E-CLASSROOM AND ICT ENABLED INFRASTRUCTURE

The institution has installed Smart classroom and E-classrooms, which are well equipped with modern tools for ICT such as computers, internet, wi-fi connectivity, interactive projectors, software, etc. These E-Classrooms are used regularly by the faculty members. In addition, these are also used to conduct interactive sessions of the subject experts to provide ICT enabled teaching-learning.



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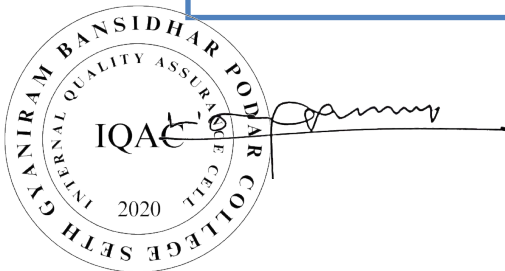


 **GPS Map Camera**



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India
Lat 27.856895°
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23/09/23 12:31 PM GMT +05:30

Smart College Auditorium with ICT Facilities



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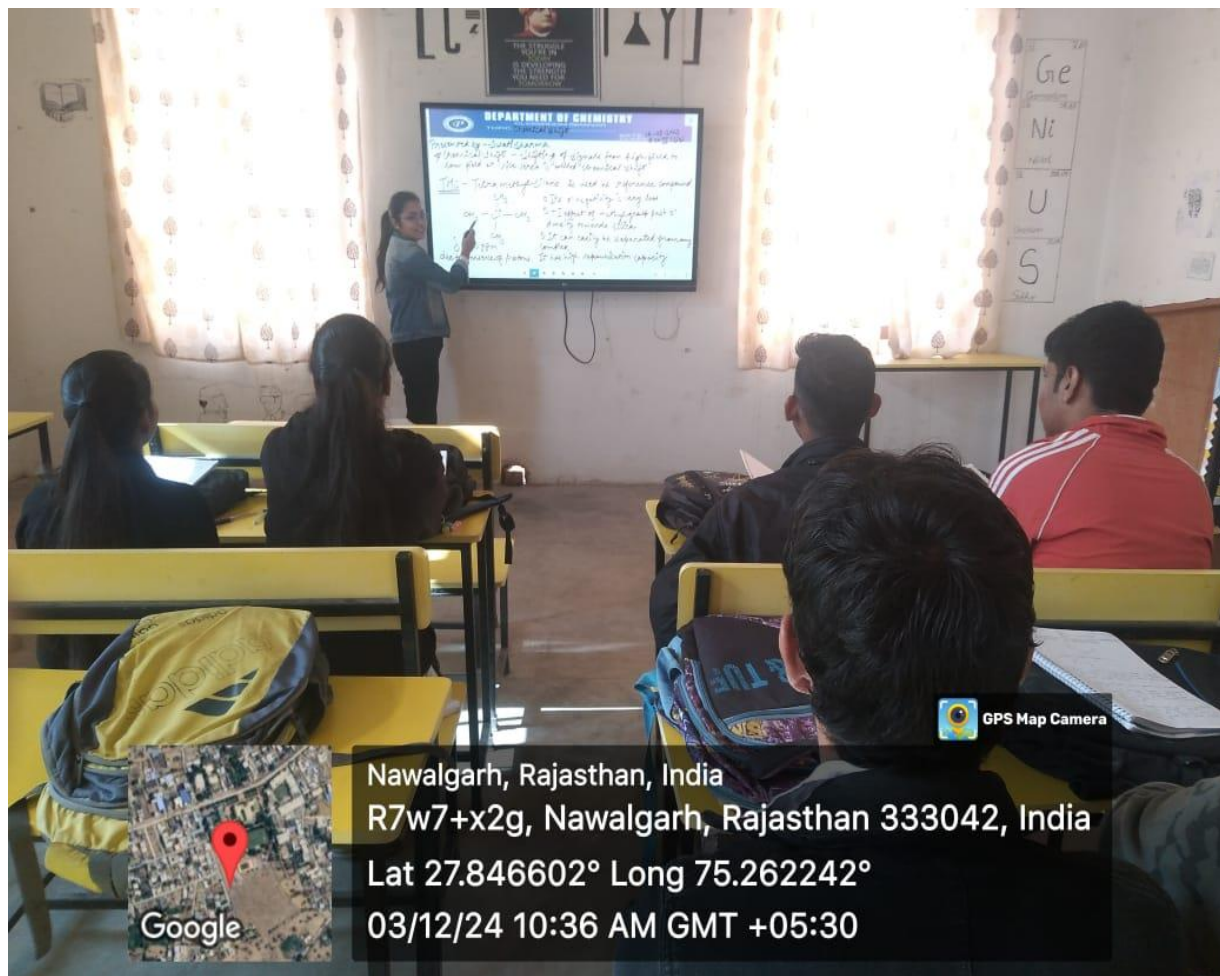
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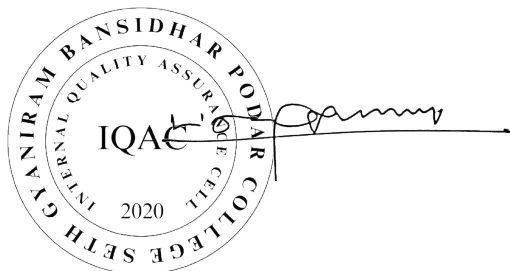
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Smart classroom with state-of-the-art ICT facilities



Department	Chemistry
ICT Tool	Smart Panel



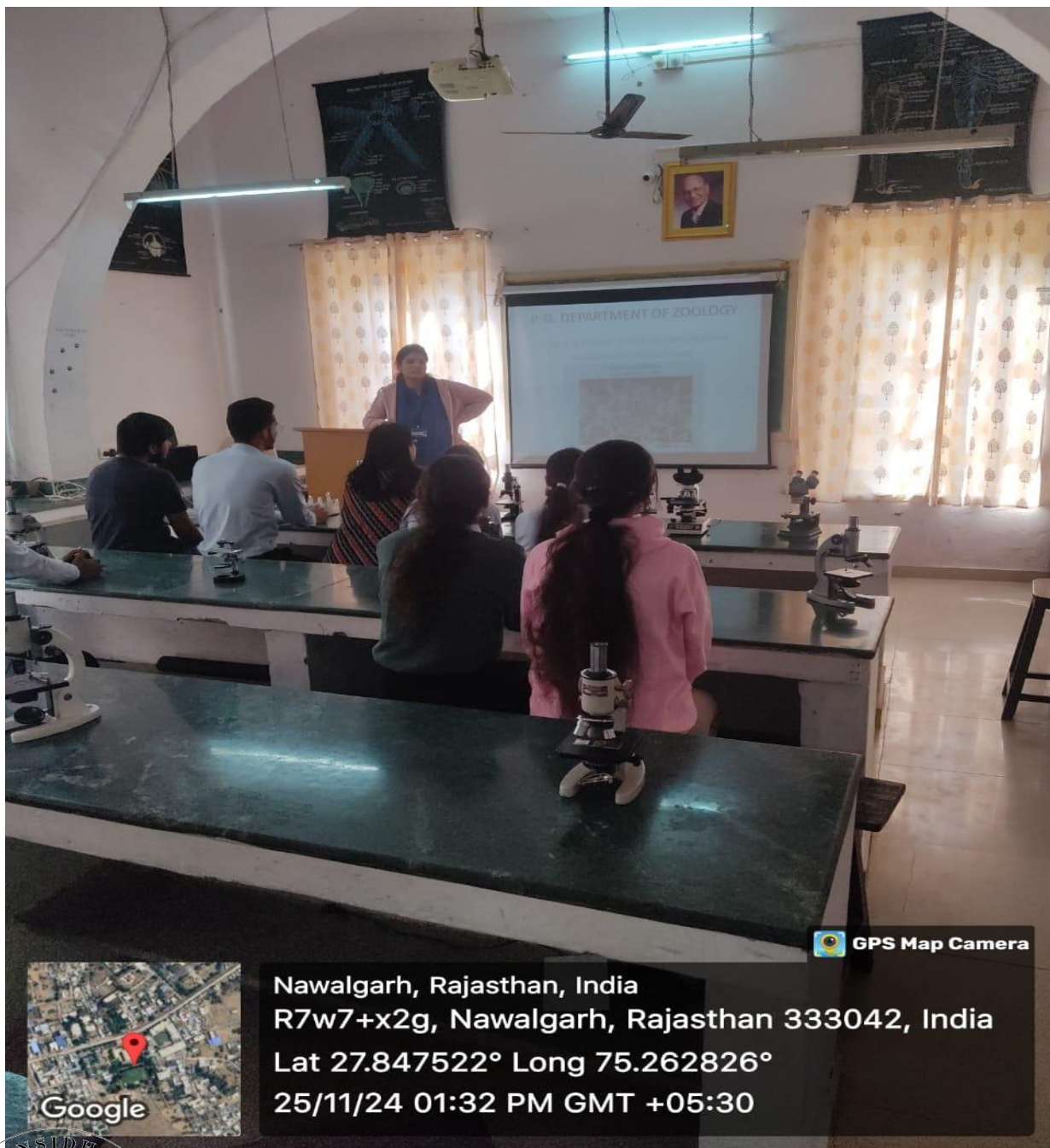
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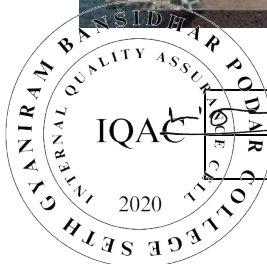


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R7w7+x2g, Nawalgarh, Rajasthan 333042, India
Lat 27.847522° Long 75.262826°
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Department	Zoology Lab
ICT Tools	LCD Projector

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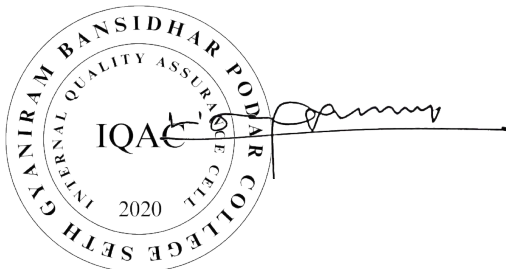
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Department	Botany Lab
ICT Tool	LCD Projector



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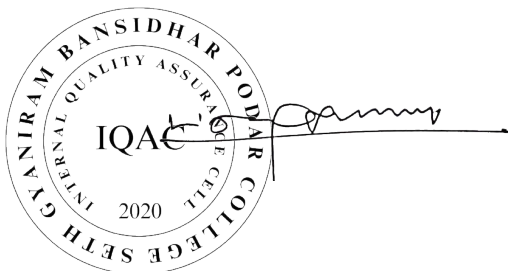


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Physics-Lab with ICT Facilities



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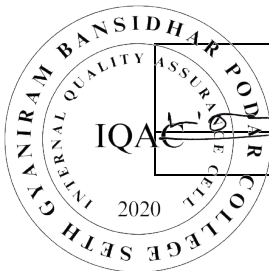
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Department

Computer Science &
Management Studies

Computer Labs



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 **GPS Map Camera**

Nawalgarh, Rajasthan, India


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 **GPS Map Camera**

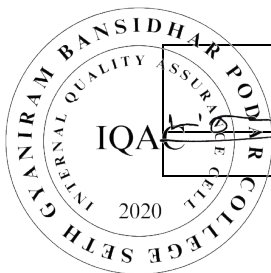
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333042, India



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Department

**Computer Science & Management
Studies**

Smart Classroom

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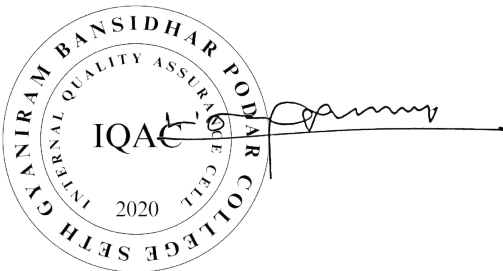


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Department of Commerce with ICT Facilities

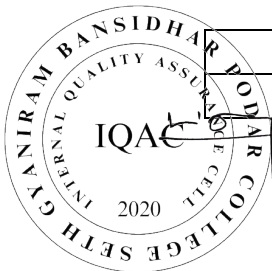


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Department	Conference Hall
ICT Tool	LCD Projector

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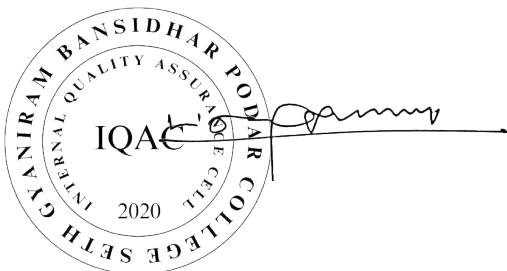


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E-Library with ICT Facilities



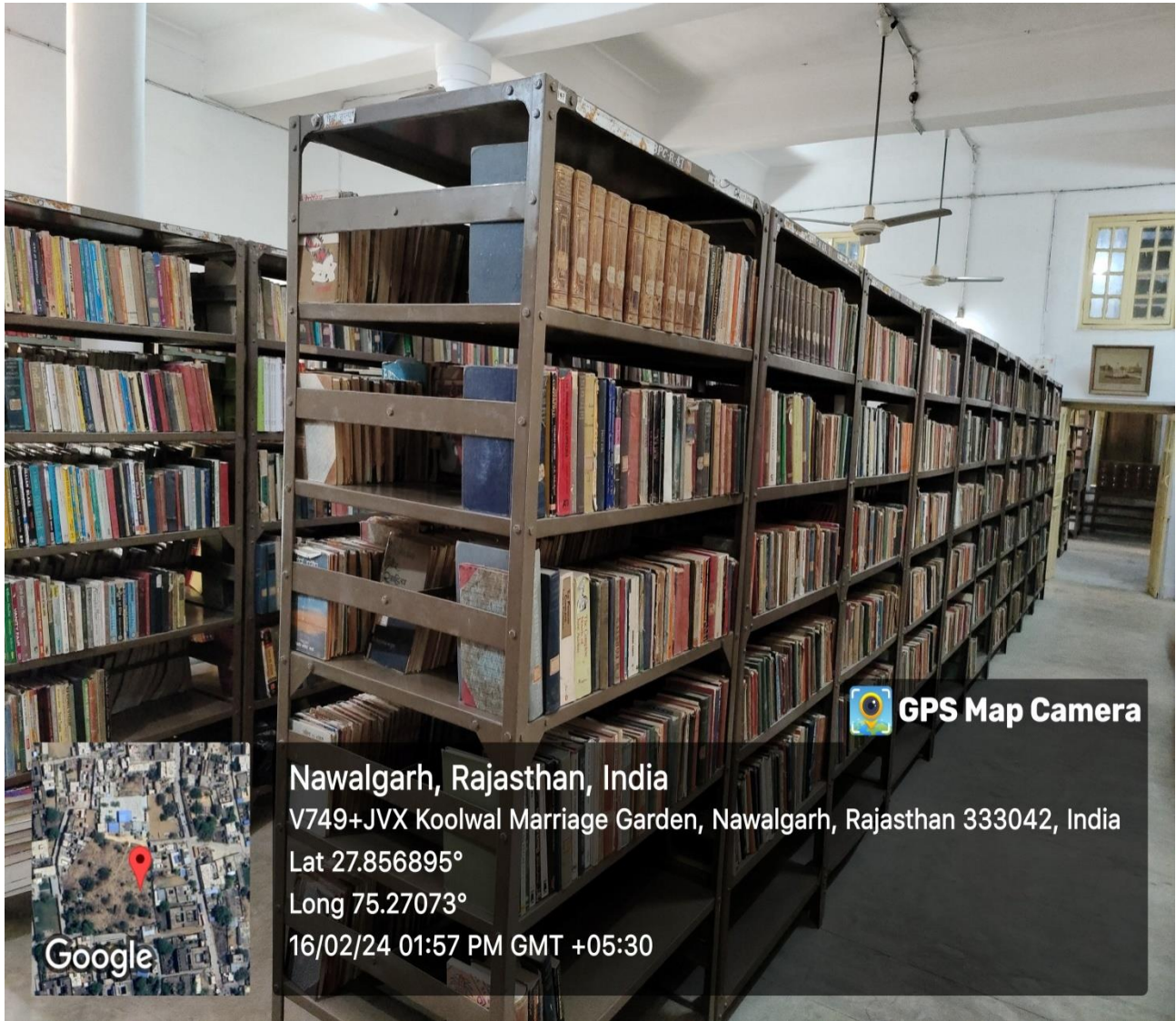
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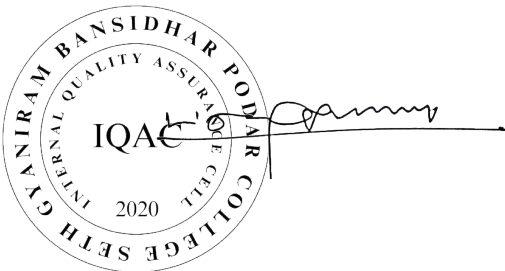
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E-Library with ICT Facilities



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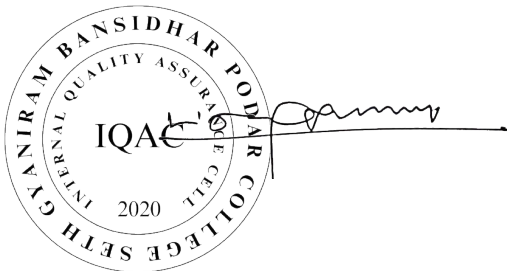


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Principal Office with ICT Facilities



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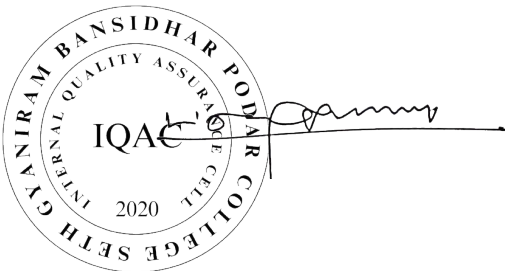


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Accounts Office with ICT Facilities



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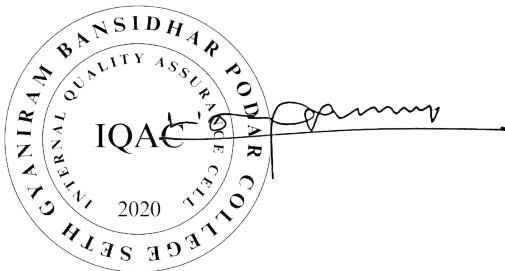


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NSS UNIT-I & II with ICT Facilities



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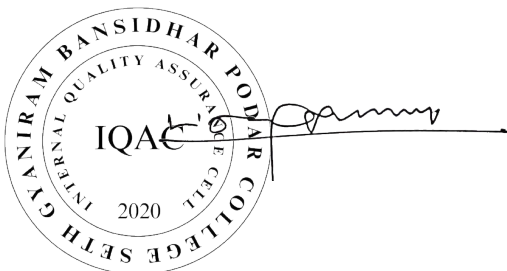


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**Student Welfare Cell and Scholarship Cell with
ICT Facilities**



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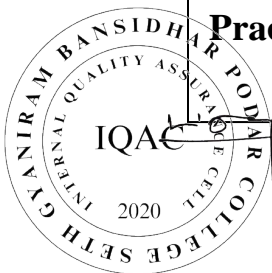


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Practical session is conducting in computer laboratories with ICT Facilities



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ICT enabled teaching-learning Enhancement of communication skills using ICT

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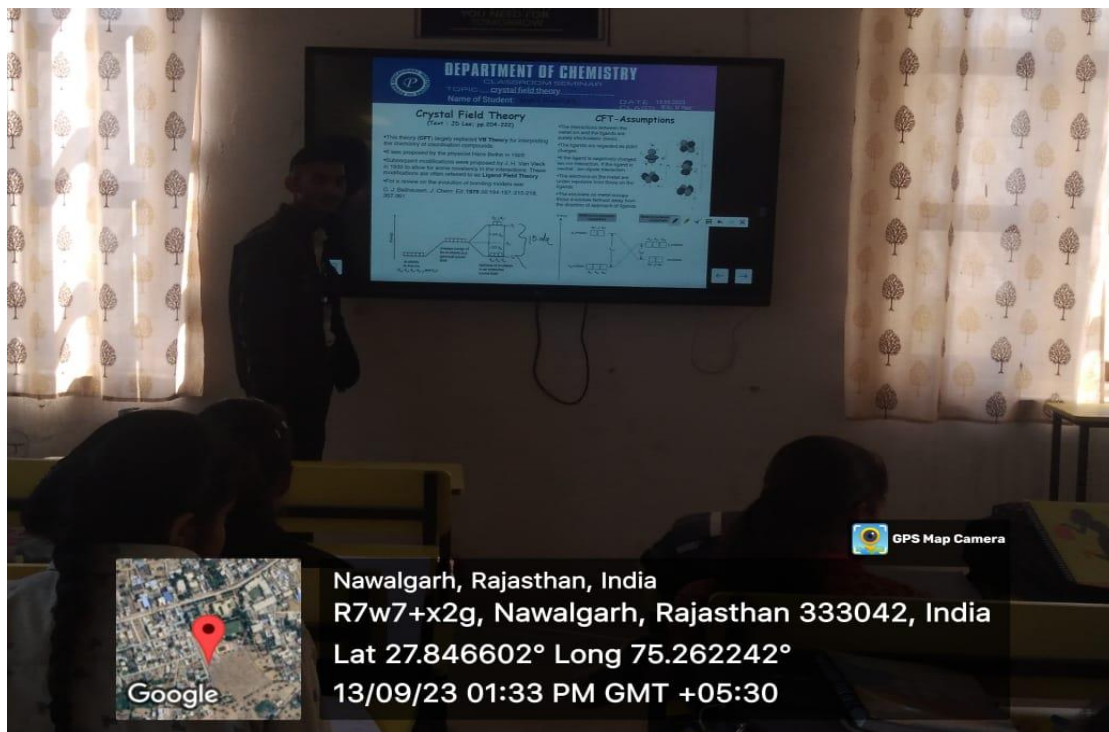


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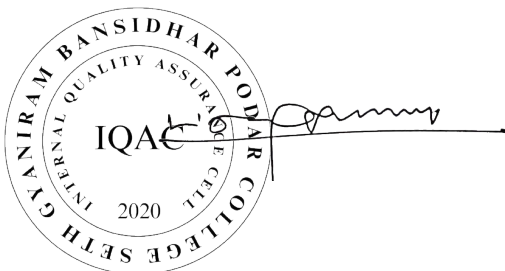
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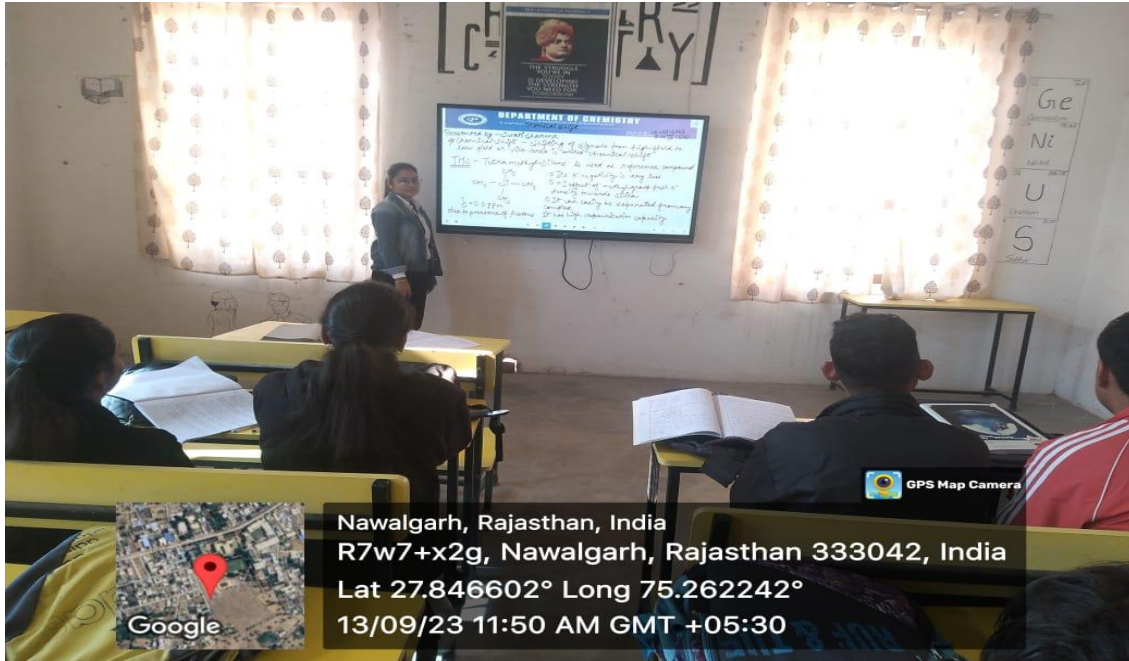
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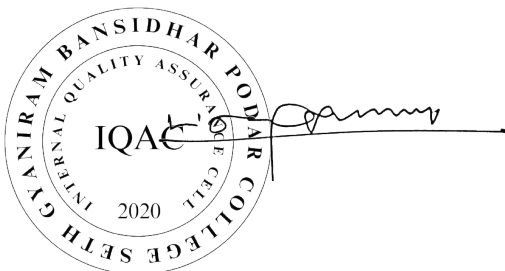
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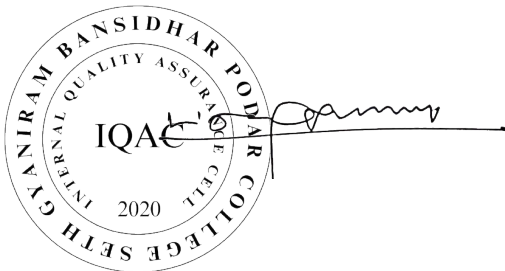
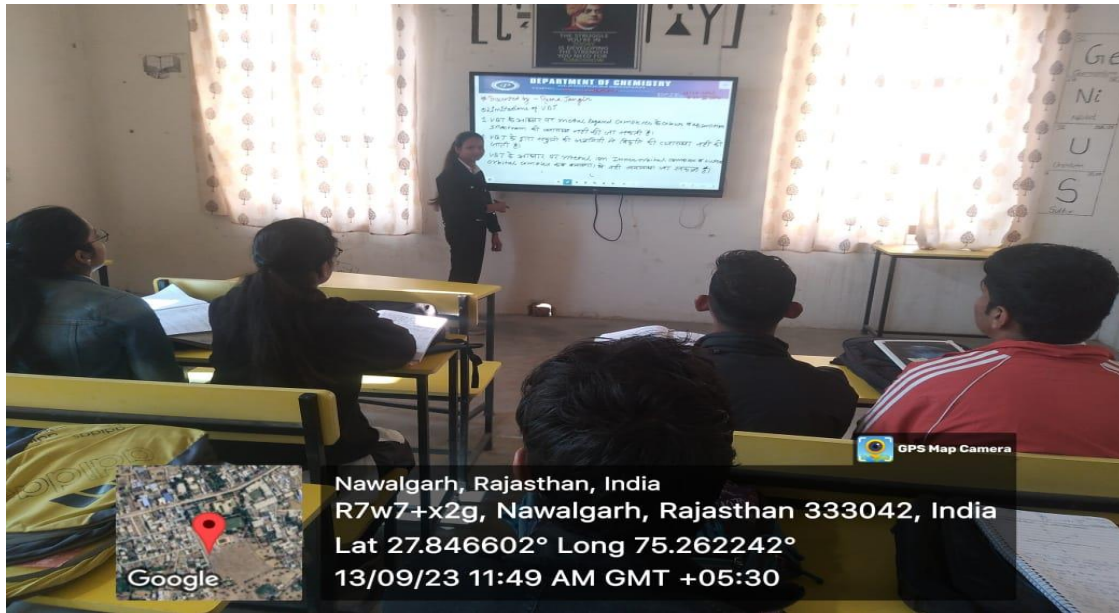
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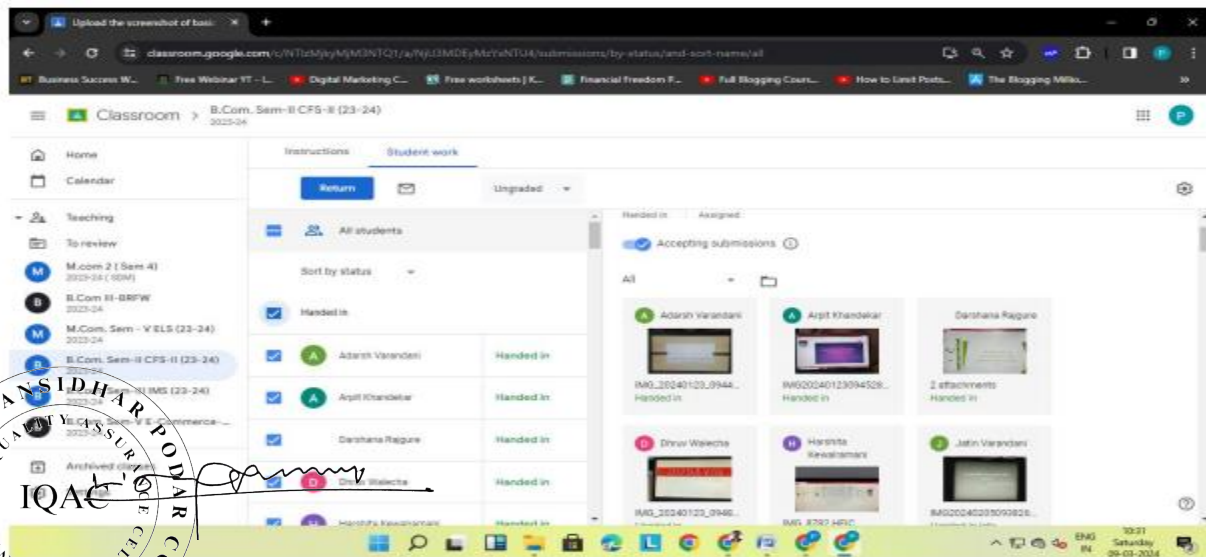
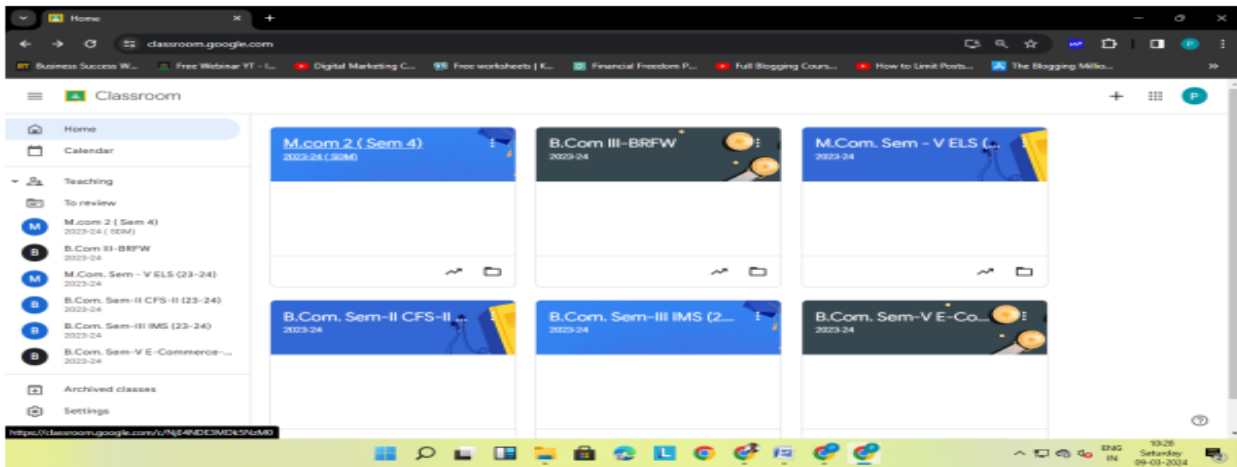


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Use of online classrooms to expand the use of ICT enabled teaching-learning for learners

Teachers also use online classroom like Google Classroom as an effective tool for ICT based learning. This expands the usage of ICT for teaching-learning. Google Classroom enhances the connectivity between the learners and teachers – inside and outside of college. It also helps to save time and paper, simplifies distribution of study material, assignments, unit tests, communicate and stay connected.



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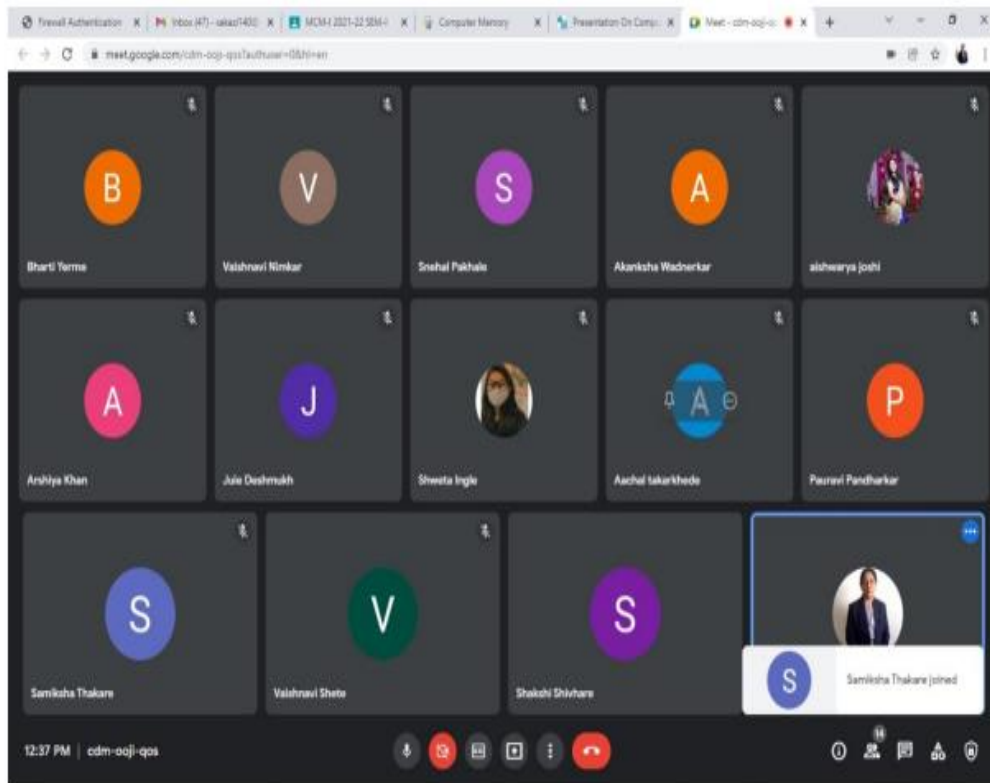
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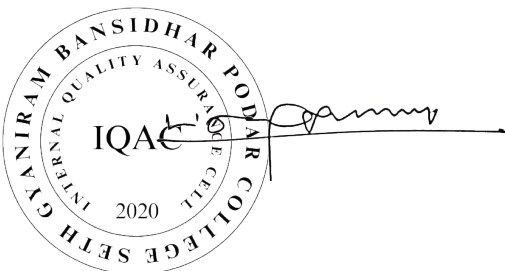
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Google Meet Platform



Google meet is the free of charge online meeting platform which is extensively used to conduct online teaching-learning process



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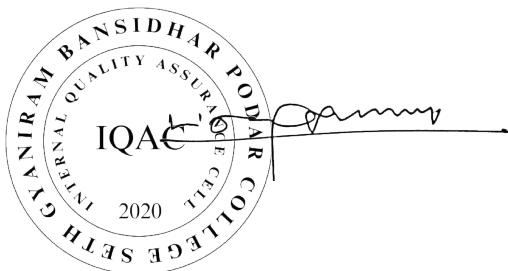
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Study Resources and Question Bank for Students with ICT Facilities

Digital Question bank

S.No.	Subject	Link
1.	Chemistry	Link
2.	Zoology	Link
3.	Botany	Link
4.	Physics	Link
5.	Mathematics	Link
6.	Commerce	Link
7.	English	Link
8.	Hindi	Link
9.	Political Science	Link
10.	Geography	Link
11.	Sociology	Link
12.	History	Link
13.	Economics	Link
14.	PIMS	Link



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Digital Resources 2023-2024

Subject:-Computer Science

Class:- BCA I

Paper Name :-Computer Fundamentals and Office Management Tools

S.No.	TOPIC TO BE COVERED	PPT USED	VIDEO USED	OTHER ITC TOOLS
UNIT-I				
1	Characteristics of computers	PPT	Video https://youtu.be/eEo_aacpwCw	Smart Pannel Board and Computer ,Projector
2	Evolution of computers			
3	Generation of computers			
4	Block diagram of computer & role of each block			
5	classification of computers			
6	application of computers			
7	Keyboard	PPT		
8	pointing devices			
9	speech recognition			
10	digital camera			
11	scanners			
12	optical scanners	PPT		
13	Classification of output devices			
14	printers			
15	plotters. Computer outputmicrofilm (COM)			
16	Classification of output devices			
17	devices- monitors	PPT	Video https://youtu.be/EA8ljw5keAk	
18	audio output			
19	projectors			
20	and terminals			
21	memory hierarchy			
22	Random access memory (RAM)			
23	types of RAM			
24	Read only Memory (ROM) type of ROM			
25	Classification of secondary storage devices			
26	magnetic tape			
27	magnetic disk			
28	optical disk	UNIT-II		
29		UNIT-II		
30	Introduction to number system	PPT	Video https://youtu.be/DzTCFsdXMP4	Smart Pannel Board and Computer ,Projector
31	Binary			
32	Octal			
33	Hexadecimal			

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34	conversion between number bases			
35	Arithmetic operations on binary numbers			
36	Alphanumeric- BCD			
37	EBCDIC			
38	ASCII			
39	Unicode			
40	Computer Software definition	PPT	Video https://youtu.be/DzTCFsdxMP4	
41	relationship between software and hardware			
42	software			
43	categories			
44	system software			
45	application software			
46	utility software			
47	Introduction			
48	classification of programming language			
49	generations of programming language			
50	feature of a good programming language			
51	UNIT-III			
52	Word processing	PPT	Video https://youtu.be/6qjoGc-KDYs	Smart Pannel Board and Computer ,Projector
53	MS-Word features			
54	creating saving and opening documents in Word			
55	interface			
56	toolbars			
57	ruler			
58	menus			
59	keyboard shortcut			
60	editing			
61	previewing			
62	printing & formatting a document			
63	advance features of MS Word			
64	find & replace			
65	using thesaurus			
66	mail merge			
67	handling graphics			
68	tables			
69	converting a Word document into various formats like-text format			
70	Word perfect			
71	UNIT-IV			
72	Worksheet basics	PPT	Video https://youtu.be/6qjoGc-KDYs	Smart Pannel Board and Computer
73	creating worksheet			
74	entering data into worksheet			

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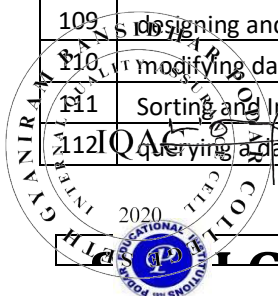
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75	data			,Projector
76	text			
77	dates			
78	alphanumeric values saving & quitting worksheet			
79	opening and moving around in an existing worksheet			
80	Toolbars and menus			
81	Keyboard shortcuts. Working with single and multiple workbook			
82	working with formula & cell referencng			
83	auto sum			
84	coping formulas			
85	absolute and relative addressing			
86	formatting of worksheet			
87	previewing & printing worksheet			
88	Graphs and Charts			
89	Database			
90	macros			
91	multiple worksheets-concepts			
92	UNIT-V			
93	Creating and viewing a presentation	PPT	Video https://youtu.be/6qjoGc-KDYs	Smart Pannel Board and Computer ,Projector
94	managing Slide Shows			
95	navigating through a presentation			
96	using hyperlinks			
97	advanced navigation with action setting and action buttons			
98	organizing formats with Master Slides			
99	applying and modifying and modifying designs			
100	Adding graphics			
101	multimedia structure			
102	Sorting and Indexing database			
103	querying a database and generating reports	PPT	Video https://youtu.be/6qjoGc-KDYs	Smart Pannel Board and Computer ,Projector
105	Planning and database (tables, queries, forms, reports)			
106	creating and editing database			
107	customizing tables			
108	linking tables			
109	designing and using forms			
110	modifying database structure			
111	Sorting and Indexing database			
112	querying a database and generating reports			



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NAWALGARH

Digital Resources 2023-2024
Subject:-Computer Science

Class:- BCA I

Paper Name :-Web Application Development

S.No.	TOPIC TO BE COVERED	PPT USED	VIDEO USED	OTHER ITC TOOLS
UNIT-I				
1	The Internet — Basic of internet	PPT	Video https://www.youtube.com/watch?v=H0jZpX1I8NA	Smart Pannel Board and Computer
2	file transfer			
3	telnet			
4	Usenet			
5	gopher			
6	wais			
7	Archie and veronica			
8	Introduction to Internet Protocols			
9	HTTP			
10	FTP			
11	SMTP protocols			
12	World Wide Web			
13	Elements of the Web			
14	Web browser and its architecture			
15	The web server			
16	the proxy server			
17	Microsoft internet explore			
18	viewing pages with a browser			
19	using a browser for mail			
20	News and chat			
21	Security and Privacy issues			
UNIT-II				
23	HTML Fundamentals	PPT	VIDEO https://www.youtube.com/watch?v=H0jZpX1I8NA	Smart Pannel Board and Computer
24	Introduction to HTML			
25	HTML Elements			
26	HTML Semantics			
27	HTML 5 Doc Types			
28	New Structure Tags			
29	Section			
30	Image			
31	Article			
32	Aside			
33	Header			

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34	Footer			
35	HTML Attributes			
36	Headings			
37	Paragraphs			
38	Styles Quotations			
39	Blocks			
40	Classes			
41	Layout			
42	frames			
43	Creating HTML			
44	Tables			
45	Creating HTML Forms			
46	HTML and Image Techniques			
47	HTML and Page			
48	Development of Website and Webpage			
49	Planning			
50	Navigation and Themes			
51	Elements of a Web page			
52	steps of creating a site			
53	publishing and publicizing site structuring web site			
54	UNIT-III			
55	Cascading Style Sheets			
56	Understanding Style Sheets			
57	CSS Syntax and Applying Style Sheets to HTML document			
58	Developing Style Sheets			
59	inline			
60	internal and external CSS Selectors			
61	<DIV> tag			
62	Using class and ID			
63	Styling Backgrounds			
64	Styling borders	PPT	VIDEO https://www.youtube.com/watch?v=OMTDI5jU5NE	Smart Pannel Board and Computer
65	Styling Text			
66	Styling Fonts			
67	Styling Links			
68	Styling Lists Styling Tables			
69	Margins			
70	Flex and Grids			
71	Bootstrap & Web page design			
72	CMS Banks of CMS			
73	Joomla/word press-Installation			

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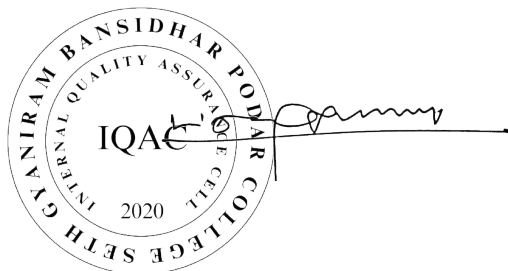
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74	Design and development of websites			
75	UNIT-IV			
76	Introduction to scripting language			
77	Client Side Scripting			
78	Memory concepts			
79	Arithmetic decision making			
80	JavaScript control structures			
81	JavaScript functions			
82	JS Popup Boxes	<u>PPT</u>	<u>VIDEO</u> https://www.youtube.com/watch?v=OMTDI5jU5NE	Smart Panel Board and Computer
83	events			
84	program modules in JavaScript			
85	function definitions duration of identifiers			
86	Scope rules			
87	Controlling Programming Flow			
88	recursion JavaScript global functions			
89	UNIT-V			
90	introduction array declaring and allocating memory			
91	passing arrays to functions			
92	multiple subscripted arrays			
93	The JavaScript Object Model			
94	JavaScript language Objects			
95	Developing Interactive Forms			
96	Validation of Forms			
97	Cookies and JavaScript Security Controlling Frames in JavaScript	<u>PPT</u>	<u>VIDEO</u> https://www.youtube.com/watch?v=OMTDI5jU5NE	Smart Panel Board and Computer
98	Client- Side JavaScript Custom JavaScript Objects			
99	applying and modifying and modifying designs			
100	Adding graphics			
101	multimedia structure			
102	Sorting and Indexing database			
103	querying a database and generating reports			



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Digital Resources 2023-2024

Subject:-Computer Science

Class:- BCA II

Paper Name :-Web Design & M. M

S.No.	TOPIC TO BE COVERED	PPT USED	VIDEO USED	OTHER ITC TOOLS			
UNIT-I							
1	Element of the web						
2	Web browser and it's type						
3	Viewing and pages with a browser, using browser for mail						
4	News and chats						
5	Security and privacy issue						
6	Cookies, Firewall executable applets						
7	Script blocking system						
8	Plug ins						
9	Active controls						
10	Dealing with web pages that contains Active X	PPT	Video https://www.youtube.com/watch?v=guvsh5OFize	Smart Pannel Board and Computer			
11	Playing Streaming audios and videos						
12	Playing Mp Music						
13	Using search engines						
14	Making use of Web resources						
15	Portals, news and weather						
16	Sports personal financing and investing						
17	Entertainment						
18	Shopping						
19	Computer and internet						
20	Travels, Health and medicine						
21	Communities and club						
UNIT-II							
22	Introduction to HTML				PPT	VIDEO https://www.youtube.com/watch?v=guvsh5OFize	Smart Pannel Board and Computer
23	Creating HTML pages						
24	In-cooperating horizontal rules graphical element						
25	Hyperlinks						

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26	Creating HTML tables		
27	Creating HTML tables		
28	Creating HTML Forms		
	Elements of Form		
	HTML and Image technique		
	Creating frames		
	Frame development of website and web pages		
	planning navigation and theme		
	Steps to creating a site		
	Publishing And publicizing site structuring website		
UNIT-III			
	Introduction DHTML		
	Features Of DHTML		
	Introdcution to CSS		
	Types of Stylesheet		
	Different element of stylesheet	PPT	Smart Pannel Board and Computer
	Filter effects		
	I- Frame		
	Div and Layer tags		
UNIT-IV			
	Introduction to Java Script		
	Working with variables		
	Method and events		
	Controlling programming flow		
	The java script object model		
	Java Script objects	PPT	Smart Pannel Board and Computer
	Developing Interactive		
	Cookies and Javascript		
	Security Controlling frames in Java script		
	Client side script		
	Java Script objects		
	Introduction to j-query		
UNIT-V			
	Introduction to AJAX	PPT	Smart Pannel Board and Computer
	Introduction to photoshop		
	Creating a new file	PPT	Smart Pannel Board and Computer
	Main selection, Picking color		

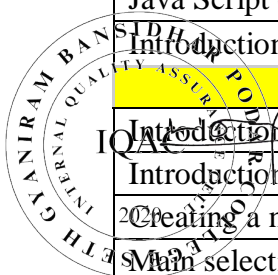
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[VIDEO
https://www.youtube.com/watch?v=3JluqTojuME](https://www.youtube.com/watch?v=3JluqTojuME)

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Filling a selection with color
Painting with paint brush tool
Using the magic wand tool
Applying a filter
Saving your documents
Save File as JPEG, TIFF, GIF, PNG
Introduction and use of layers
Introduction and use of tool of Photoshop
Introduction to Coral Draw
Use and importance in designing
Various graphics files and file extension
Vector image and raster image
Introduction to Screen and work area

[uME](#)

[PPT](#)

[VIDEO](#)
<https://www.youtube.com/watch?v=1IsL6g2ixak>



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Digital Resources 2023-2024
Subject:-Computer Science

Class:- BCA III

Paper Name :-PHP

S.No.	TOPIC TO BE COVERED	PPT USED	VIDEO USED	OTHER ITC TOOLS
UNIT-I				
1	Introduction To PHP			
2	Server Side Scripting			
3	Client Side Scripting			
4	Feature Of PHP			
5	Basic Syntax			
6	PHP Variable	PPT	https://www.youtube.com/watch?v=oJbtyzaA2QA	Smart Pannel Board and Computer
7	PHP Constant			
8	Data Types			
9	Operators			
10	Operators			

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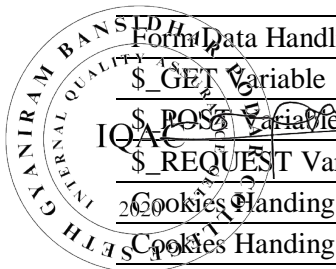
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11	Operators			
12	Expression			
13	UNIT-II			
14	Decision Making IF			
15	Multiple Ifs			
16	Nested Ifs			
17	Loops While			
18	Do While			
19	For Loop			
20	For Each Loop	PPT	VIDEO https://www.youtube.com/watch?v=oJbfyzaA2QA	Smart Pannel Board and Computer
21	Nested Loops			
	Jumping Statements			
22	Introduction Of Arrays			
23	Numeric array			
24	Associative Array			
25	Multi Demnsional Array			
26	UNIT-III			
27	Introduction Of String			
28	Creating And Accesing String			
	Searching And Replacing String			
	Formating String			
	String Releted Library Function			
	Pattern Matching			
	Replacing Text	PPT	VIDEO https://www.youtube.com/watch?v=oJbfyzaA2QA	Smart Pannel Board and Computer
	Splitting a String With Regular Expression			
	Defining Function			
	Calling a Function			
	Parameter Passing			
	Returning Value From Function			
	Passing Array To Function			
	UNIT-IV			
	Scope Of Variable			
	Form Data Handling			
	\$_GET Variable	PPT	VIDEO https://www.youtube.com/watch?v=9VK_g-u-XA	Smart Pannel Board and Computer
	\$_POST Variable			
	\$_REQUEST Variable			
	Cookies Handing			
	Cookies Handing			



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Session Management
Session Management
URL Encryption
Security Function
Exception Handling
Understanding Exception and Error
Try
Catch
Throw
UNIT-V
File Handling Opening and Closing a File
Copying File
Renaming and Deleting a File
Database Handling Connection With My-SQL Database
Performing Basic Database Operation
Insert/Delete
Update,Select
Setting Query Parameter

PPT VIDEO
https://www.youtube.com/watch?v=9VK_g-u_XA

Smart Pannel Board and Computer



SETH GYANIRAM BANSIDHAR PODAR COLLEGE, NAWALAGARH

LECTURE PLAN SESSION 2022-2023

Subject:-Computer Science

Class:- BCA III

Paper Name :-System Analysis and Design

S.No	TOPIC TO BE COVERED	PPT USED	VIDEO USED	OTHER ICT TOOLS
UNIT-I				
1	Introduction To System Design Environment	<u>PPT</u>	<u>Video</u> https://www.youtube.com/watch?v=nFZ1-BCnUQ0	Smart Pannel Board and Computer ,Projector
2	System Development Approach			
3	Function , Data Oriented Approach			
4	Object Oriented Approach			
5	Software Development Life Cycle			
6	Modeling Methods			
7	Modeling Methods			
8	Disadvantages Of Linear Life Cycle			
9	Spiral Model			
10	Iterative Cycle			
11	Requirement Gathering			

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12	Introduction To Prototyping			
13	UNIT-II			
14	Introduction To System	PPT	Video https://www.youtube.com/watch?v=nFZ1-BCnUQ0	Smart Pannel Board and Computer , Projector
15	Elements Of System			
16	Characteristics Of System			
17	Process Modeling			
18	Data Modeling			
19	Dfd			
20	Dfd Elements			
21	Decision Table			
	E-R Model			
22	Component Of E-R Diagram			
23	Relationship			
24	Structure Design			
26	UNIT-III			
27	Testing Fundamental	PPT	Video https://www.youtube.com/watch?v=nFZ1-BCnUQ0	Smart Pannel Board and Computer ,Projector
28	White Box And Black Box Testing			
29	Verification And Validation			
30	Alpha And Beta Testing			
31	Integration Testing			
32	System Testing			
33	Documentation			
34	Software Maintenance			
35	UNIT-IV			
36	Software Project Planning	PPT	Video https://www.youtube.com/watch?v=nFZ1-BCnUQ0	Smart Pannel Board and Computer ,Projector
37	Complexity Estimation			
38	Line Of Code			
39	COCOMO Model			
40	COCOMO Model			
41	Methodology Of Data Design			
42	Methodology Of Data Design			
43	Procedural Design			
44	Other Concepts			
45	UNIT-V			
46	Introduction Management Information System	PPT	Video https://www.youtube.com/watch?v=nFZ1-BCnUQ0	Smart Pannel Board and Computer ,Projector
47	Component Of MIS			
	Decision Making			

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49	Decision Support System			
50	Decision Support System			
51	Structured Vs Un-Structured Decisions			
52	Information Requirement Decision			
53	Implementation And Evaluation			
54	Pitfalls Of MIS			

SETH G.B. PODAR COLLEGE, NAWALAGARH
LECTURE PLAN SESSION 2023-2024
DEPARTMENT OF BOTANY
Class:- B.Sc I Sem
DIGITAL TOOLS/TECHNOLOGY USED BY THE DEPARTMENT

S.N o.	TOPIC TO BE COVERED	Youtube Link
UNIT-I		
1	Morphology structure and shape	https://www.youtube.com/watch?v=cHIB8601KQQ
2	Reproduction in bacteria	
UNIT-II		
3	General characteristics and importance	https://www.youtube.com/watch?v=jk2rDAZxVHw
4	Structure of TMV	
5	Explanation of TMV	
6	POX virus and Bacteriophage	https://www.youtube.com/watch?v=DgM9uXM6L38
7	Structure and Multiplication of Bacteria	
8	Lytic cycle of Bacteriophage	https://www.youtube.com/watch?v=4g2F19x_dmE
9	Lysogenic Cycle of Bacteriophage	
10	Fungi characteristics	https://www.youtube.com/watch?v=kRJKjbmPiZg
11	General characteristics and importance	
12	Thallus organisation and reproduction	
13	Reproduction types	
14	Economic importance of Fungi	
15	Classification of Fungi	https://www.youtube.com/watch?v=165mFP6ggws
16	Classification of Fungi	

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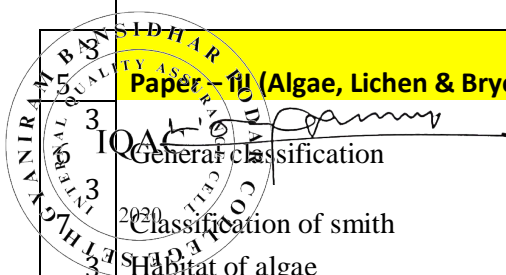
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6		
1		
7	Imp questions	
1		
8	Plant pathology introduction	
1		
9	Non parasite, Non infectious	
2		
0	Imp notes discussion	
2		
1	Imp questions discussion	
UNIT-III		
2		https://www.youtube.com/watch?v=SwZhaGjC-w
2	Intro/structure/Life cycle of Albugo and White rust	
2		
3	Intro/structure/Life cycle of Albugo and White rust	
2		https://www.youtube.com/watch?v=rR5BWb0-Myw
4	Green ear disease of bajra and Aspergillus	
2		
5	Claviceps, Peziza	
2		
6	Downy mildew imp questions	
2		
7	Imp ques with revision	
UNIT-IV		
2		
8	Intro/structure/life cycle of Puccinia	
2		
9	Intro/structure/life cycle of Puccinia	
3		https://www.youtube.com/watch?v=f3EOrMHPTHg
0	Ustilago/covered smut of barley	
3		
1	Ustilago/covered smut of barley questions	
3		https://www.youtube.com/watch?v=K547P2BHL6Y
2	Alternaria and early blight of potato	
3		
3	Imp previous questions	
3		
4	Imp previous questions	
Paper - II (Algae, Lichen & Bryophyta)		
5		
3	General classification	
6		
3	Classification of smith	
3		
3	Habitat of algae	



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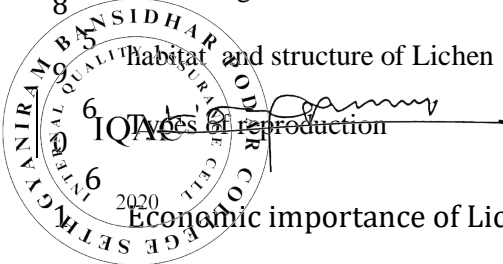
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8		
3		
9	Thallus structure	
4		
0	photosynthetic pigments and food reserve	
4		
1	types of reproduction	
4		
2	sexual type of reproduction	
4		
3	types of Life cycle	
4		
4	Economic importance of algae	
4		
5	CYANOPHYCEAE- Oscillatoria and Nostoc	
4		
6	CHLOROPHYCEAE- Volvox and Chara	
4		
7	XANTHOPHYCEAE- Vaucheria	
4		
8	PHAEOPHYCEAE- Ectocarpus	
4		
9	RHODOPHYCEAE- Polysiphonia	
5	Introduction and classification of Bryophyta	
0		
5	Economic importance of Bryophyta	
1		
5	Riccia-Origin,Morphology,Reproduction & Importance	
2		
5	Marchantia-Origin,Morphology,Reproduction & Importance	
3		
5		
4	Important questions asked in previous years	
5		
5	Important questions	
5		
6	Anthocerosida- Anthoceros	
5		
7	Bryopsida- Funaria	
5		
8	Lichens- general introduction	
5		
9	Habitat and structure of Lichen	
6	Types of reproduction	
6		
6	Economic importance of Lichen	



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Practicals of B.Sc. - I year

Study of vegetative and reproductive structures of Nostoc preparations and permanent slides

Gram staining of bacteria

Study of mycoplasma, TMV structure, POX virus and 3-D models

Types of Bacteria to be observed from temporary/permanent slides/photographs

Types of Bacteria to be observed from temporary/permanent slides/photographs

Examination of bacteria from natural habitat (curd) by simple staining

Slide identification of various plant diseases

Albugo candida, Puccinia species

P. uredospores, teleutospores, aeciospores, basidiospores, pycniospores

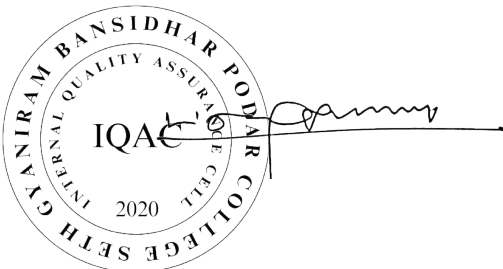
Phytophthora infestans, ustilago species of permanent slides

algae slides, Chlamydomonas, green algae, Ectocarpus, Fucus

permanent slides and preparation of slides of bryophyta, different types of algae

Alternaria and early blight of potato

Green ear disease of bajra



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SETH G.B. PODAR COLLEGE, NAWALAGARH LECTURE PLAN SESSION 2021-2022

Subject:-Botany

Class:- B.Sc (II) Bio

DIGITAL TOOLS/TECHNOLOGY USED BY THE DEPARTMENT

S.No.	TOPIC TO BE COVERED	Youtube Link
	UNIT-II	https://www.youtube.com/watch?v=gHE_wi04eal
1	Photosynthetic pigments, photosynthetic apparatus	
2	light reaction and photosystem	https://www.youtube.com/watch?v=99TZSqwFgok
	Photosynthetic pigments, photosynthetic apparatus questions	
3	photosystem-II	https://www.youtube.com/watch?v=mlx3axgyX9U&t=428s
4	photophosphorylation and c3 cycle	
5	calvin cycle components	
6	c3 cycle theory	
7	c3 cycle imp ques	https://www.youtube.com/watch?v=Uc4IDTd1JXs&t=25s
8	c4 cycle	
9	comparison between c3 and c4	
10	imp concepts of different cycles	
11	CAM plants introduction	
12	CAM cycle completed	
13	important questions previous years	
14	factors affecting photosynthesis	https://www.youtube.com/watch?v=FU-objvxi0Q
15	respiration	
	UNIT-III	
16	Oxidative phosphorylation	https://www.youtube.com/watch?v=nMXyyaDB7XE
17	classification and function of carbohydrates	
18	Chemical bonds, physical and chemical properties	
19	structure, nomenclature and classification of	

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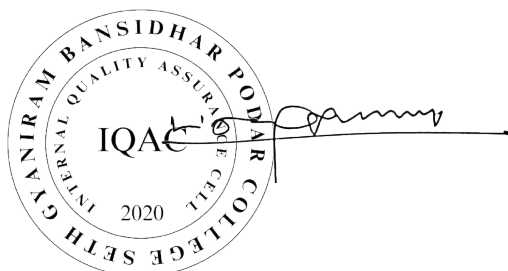
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	Enzymes	
20	Factors of enzyme activity, saturated and unsaturated fats	
21	alpha and beta oxidation	https://www.youtube.com/watch?v=joSbl77OfrY
22	imp questions regarding oxidation	
23	Secondary metabolites	https://www.youtube.com/watch?v=kgofEaxzcXw
UNIT-IV		
24	Previous years questions practice	
25	Seed dormancy introduction	https://www.youtube.com/watch?v=nyamvim4ZzE
26	Seed dormancy questions	
27	Ascent of sap and Guttation	https://www.youtube.com/watch?v=ehip_G6lxUQ
28	Plant hormones and Auxin, Gibberellins	
29	Mechanism of Transpiration	
30	Cytokinin and Ethylene	https://www.youtube.com/watch?v=fY18cuSg0es
31	Imp questions discussion	
32	Imp questions discussion	



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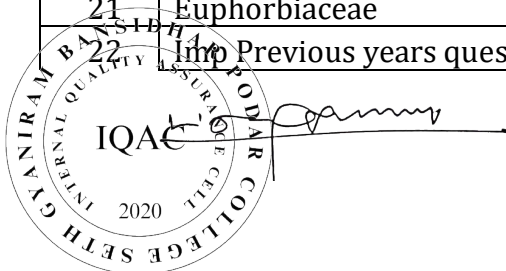


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SESSION 2023-2024
Subject:-Botany
Class:- B.Sc (III) Bio
DIGITAL TOOLS/TECHNOLOGY USED BY THE DEPARTMENT

S.No.	TOPIC TO BE COVERED	Youtube Link
	UNIT-I	
1	Interaction among organisms	https://www.youtube.com/watch?v=TgGyqC7neQM
2	Mutualism, Commensalism and Proto cooperation	https://www.pdfdrive.com/ecology-and-the-environment-e175238463.html
3	Allelopathy, Competition and Predation	
4	Environmental Protection Act	
5	General introduction of Ecosystem	
6	Biotic and Abiotic components	https://www.youtube.com/watch?v=-M-ELop2FR8
7	Biotic and Abiotic components questions	
8	Imp. Previous years questions	
9	Types of system of classification	
10	Bentham and Hooker Classification	
11	Engler and Prantl's classification	https://www.youtube.com/watch?v=hSU70b3eigQ
12	Families Ranunculaceae, Brassicaceae	
13	Papaveraceae, Malvaceae	https://www.youtube.com/watch?v=wXqDEoPnOhE
14	Fabaceae	
15	Imp. Questions	
16	Imp. Questions	
17	Liliaceae	
18	Aracaceae	
19	Poaceae	https://www.youtube.com/watch?v=1HVYe8QtIJA
20	Apicaceae	
21	Euphorbiaceae	https://www.youtube.com/watch?v=4jP_O967rcw
22	Imp Previous years questions	



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SETH G.B. PODAR COLLEGE, NAWALAGARH LECTURE PLAN SESSION 2023-2024 DEPARTMENT OF BOTANY Class:- M.Sc. Previous DIGITAL TOOLS/TECHNOLOGY USED BY THE DEPARTMENT

	TOPIC TO BE COVERED	Youtube Link
	UNIT-I	
1	Water relation of plants	
2	Membrane transport	https://www.youtube.com/watch?v=2tLGj8acwMo
3	passive non mediated transport	
4	passive non mediated transport	
5	passive non mediated transport ques	
6	types of NMT	
7	ATP driven active transport	
8	ATP driven active transport	
9	Uniport ATP driven active transport	
10	Symport	
11	antiport ion channel	
12	Nod factor/ root nodulation	
13	Nod factor/ root nodulation	https://www.youtube.com/watch?v=kkggXNL_zNo
14	Nitrogen Fixation	
15	Nitrogen Fixation mechanism	https://www.youtube.com/watch?v=S2rJ_9cyPQA&t=331s
16	Structure of Amino acids	
17	Structure of Amino acids	
18	stereoisomers	https://www.youtube.com/watch?v=C7CMdH2w0wE&t=1940s
19	stereoisomers	https://www.youtube.com/watch?v=C7CMdH2w0wE&t=1940s
20	Amphoteric Properties	
21	structure of proteins	
22	Primary and secondary structure	
23	Primary and secondary structure	
24	Primary and quaternary structures	
25	Tertiary and quaternary structures	
26	Ramchandran Plot intro	
27	Ramchandran Plot concepts	

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28	Ramchandran Plot structure	
29	Protein stability	
	UNIT-II	
30	Protein stability	
31	Enzyme, structure and mechanism	
32	Carbohydrate classification	
33	polysaccharides classification	
34	Photosynthesi/ Photooxidation	
35	photosynthesis concepts	
36	photophosphorylation	
37	c3 cycle/ c4 cycle and its signifiante	https://www.youtube.com/watch?v=Uc4IDTd1JXs
38	comparison between c3 and c4	https://www.youtube.com/watch?v=Uc4IDTd1JXs
39	Glycolate cycle and photorespiration	
40	CAM plants	
41	Mechanism of CAM plants	
42	Important Questions	
	UNIT-III	
43	factors affecting photosynthesis	
44	glycolysis cycle	
45	kreb's cycle	
46	kreb's cycle questions	
47	Oxidative phosphorylation	
48	Oxidative phosphorylation	
49	fatty acids	
50	fatty acids metabolism	https://www.youtube.com/watch?v=iTJXu8dDShQ
51	imp questions	
52	biosynthesis of alpha and beta oxidation	https://www.youtube.com/watch?v=iTJXu8dDShQ
53	secondary metabolites	
54	secondary metabolites	https://www.youtube.com/watch?v=BdzKvse9bVU
	UNIT-IV	
55	steroids	
56	plant growth regulators	
57	types of plant growth regulators	
58	Auxin chemical nature	
59	Auxin bioassay and properties	
60	Auxin physiological effects and mode	
61	Bioassay and physiological effects of Gibberellins	https://www.youtube.com/watch?v=P4TenbmjuPs

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62	Cytokinins/physiological effects & bioassay	
63	Ethylene/physiological effects & bioassay	
	ABA/physiological effects & bioassay	
64	Paper-II	
65	Spontaneous and induced mutation	
66	Physical and Chemical mutagens	
67	Transposable elements in prokaryotes and Eukaryotes	
68	Transposable elements in prokaryotes and Eukaryotes	
69	Sex determination/ sex linked	https://www.youtube.com/watch?v=XGGz9MTvkAQ
70	Sex determination/ sex linked	https://www.youtube.com/watch?v=XGGz9MTvkAQ
	Unit-III	
71	Robertsonian translocation	https://www.youtube.com/watch?v=Y5MVwp2i36Q
72	Robertsonian translocation	https://www.youtube.com/watch?v=Y5MVwp2i36Q
73	B-A translocation	
74	flow cytometry	
75	imp questions asked in previous years	
	Unit-IV	
76	Alien gene transfer	https://www.youtube.com/watch?v=D5aEKiez_nw&t=672s
77	Alien gene transfer	
78	Imp. Questions	
79	Genetic basis of inbreeding and heterosis	https://www.youtube.com/watch?v=SA9wz1bkkZk
80	Genetic basis of inbreeding and heterosis	https://www.youtube.com/watch?v=SA9wz1bkkZk
81	Exploitation of hybrid vigour	https://www.youtube.com/watch?v=SD7PuH-mldQ
82	revision of imp. Questions	
83	revision of imp. Questions	
84	revision of imp. Questions	

Practicals of M.Sc. - Previous year

Effect of time and enzyme concentration on the rate of reaction of enzymes
Effect of substrate concentration on activity of any enzyme and determination of K_M value

Extraction of chlorophyll pigments from leaves and preparation of the absorption spectrum of chlorophyll and carotenoids

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Determination of chlorophyll a and b ration in c3 and c4 plants

To demonstrate photophosphorylation and estimation of protein by protein assay

To demonstrate succinate dehydrogenase activity and kinetics and sensitivity to inhibitors

Extraction of seed protein depending upon solubility

Preparation of standard curve of BSA and estimation of protein content in plant material by Bradford and Lowry methods

SDS page by autoradiography

Chromatography

Filtration chromatography

SETH G.B. PODAR COLLEGE, NAWALGARH
LECTURE PLAN SESSION 2023-2024
DEPARTMENT OF BOTANY
Class:- M.Sc. Final
DIGITAL TOOLS/TECHNOLOGY USED BY THE DEPARTMENT

S.No.	TOPIC TO BE COVERED	Youtube Link
UNIT-I		
1	Plant Tissue culture (PTC) concepts	https://www.youtube.com/watch?v=apcuE31YAqQ
2	PTC Laboratory	
3	PTC facilities	
4	PTC Operation and Management	
5	Media Preparation and handling	https://www.youtube.com/watch?v=b1ANUOGhbPO
6	Sterilization techniques	https://www.youtube.com/watch?v=L5_6kAQBNS5E
7	Sterilization techniques importance	
8	Pathways of plant regeneration	https://www.youtube.com/watch?v=HH15kZU9rxA
9	Proliferation of Axillary buds	
10	Proliferation of Axillary buds imp concepts	
11	Adventitious shoot bud proliferation	https://www.youtube.com/watch?v=wIR3taS66Ns
12	Adventitious shoot bud proliferation notes	
13	Organogenesis	https://www.youtube.com/watch?v=t7b9hHJGbNg&t=1258s
14	Organogenesis questions	
15	Somatic Embryogenesis concepts	
16	Somatic Embryogenesis notes	

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17	Callus culture	https://www.youtube.com/watch?v=kO8AUAXSLp8
18	Suspension Culture	
19	Zygotic v/s Somatic embryogenesis	
20	Zygotic v/s Somatic embryogenesis	
21	Zygotic v/s Somatic embryogenesis`important questions	
22	Conifer Somatic Embryogenesis	
23	Conifer Somatic Embryogenesis	
24	Application of tissue culture in Forestry	
25	Application of tissue culture in Forestry Notes	
26	Application of tissue culture in Forestry Notes	
27	Micropropagation Advances	
28	Micropropagation Advances	
29	Synthetic seeds introduction	https://www.youtube.com/watch?v=8TSvU7leop0
30	Synthetic seeds important questions	
31	Use of ELISA methods	
32	Use of ELISA methods	
33	Staining Procedures for Chromosomal analysis	https://www.youtube.com/watch?v=FK8elqFEYAA&t=510s
34	Staining Procedures for Chromosomal analysis	
35	Microtechniques for plant culture	
36	Microtechniques for plant culture	
37	Fixation FAA and Glutaraldehyde	https://www.youtube.com/watch?v=N5ksYTYZr8s
38	Fixation FAA and Glutaraldehyde	
39	Embedding in Parafin and GMA	
40	Equipments and histological procedures	
41	SEM and TEM concepts	https://www.youtube.com/watch?v=hCzwKH0QbgU&t=321s
42	SEM and TEM notes	
43	Unique Features of Plant development	
44	Difference between animal and Plant Development	
45	SAM	
46	SAM Theories (Apical cell, histogen)	
47	Dunica Corpus Theory	
48	Apical cell theory introduction	
49	Apical cell theory Brief	
50	Histogen theory introduction	https://www.youtube.com/watch?v=R4uvgAhcnbk
51	Histogen theory Brief	
52	Cytokistological theory	

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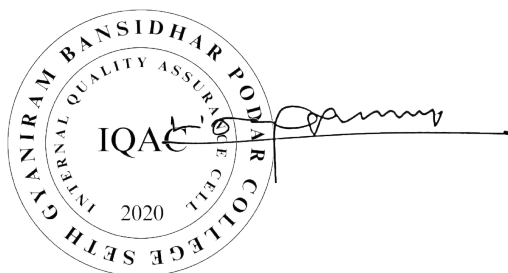
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53	Cytohistological theory	https://www.youtube.com/watch?v=MNg-mTSuV8I&t=25s
54	4 layers of CHZ	
55	Regions of shoot apex	
56	Important questions of SAM	
57	RAM	
58	RAM continue..	
59	Theories of RAM	
60	Theories of RAM	
61	ABC Model	https://www.youtube.com/watch?v=baYTZ5bEfGI
62	Arabidopsis thaliana	
63	Imp. Concepts of gene expression	
64	Gene expression in Arabidopsis thaliana	https://www.youtube.com/watch?v=fM8AlxZh7fM
65	Gene expression in Antirrhinum	
66	Gene expression in Antirrhinum continue	
67	Reproduction	
68	Protein and mobilization of food reserves	
69	Protein and mobilization of food reserves notes	
70	Use of mutants in understanding seedling development	
71	Use of mutants in understanding seedling development	https://www.youtube.com/watch?v=ppBHgzCJSNI&t=338s
72	Cytological and molecular analysis of SAM	
73	Roor-microbe interaction	
74	Roor-microbe interaction	https://www.youtube.com/watch?v=WyhGctTxyqs
75	Mesophylls	
76	Phyllotaxy Introduction	
77	Phyllotaxy important questions	https://www.youtube.com/watch?v=QRipCv-6KQ
78	Types of Phyllotaxy	
79	Important Previous questions	
80	Important Previous questions	



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