

Rayat Shikshan Sanstha's



# **KARMAVEER BHAURAO PATIL**

## **POLYTECHNIC, SATARA**

### **INFORMATION TECHNOLOGY**



# **2025-26**

**INFORMATION BROCHURE**

# ★ VISION

**To develop competent technocrats to generate societal and ethical values for strengthening IT industry by imparting quality technical education.**

# ★ MISSION

- **M1:** To impart technical knowledge and skills by using modern technologies in the Information Technology field.
- **M2:** To encourage technocrats by industry institute collaboration to use technical tools in the ever-changing IT field.
- **M3:** To motivate students towards ethical values and build a personality that will be beneficial to society.
- **M4:** To develop students using lifelong learning techniques for career opportunities in IT industry.



# **ABOUT DEPARTMENT**

The Information Technology Department at Karmaveer Bhaurao Patil Polytechnic was established in the academic year 2022-23 under the visionary leadership of Rayat Shikshan Sanstha. The department aims to equip students with the latest knowledge and practical skills in the rapidly evolving field of Information Technology.

With a focus on innovation, technical excellence, and holistic development, the department offers a comprehensive curriculum that includes programming, data structures, web technologies, networking, cybersecurity, and emerging technologies like AI and IoT. The department is supported by qualified and enthusiastic faculty, well-equipped laboratories, and a student-centric learning environment.

- **Year of Establishment : 2022**
- **Intake Capacity : 60**
- **DTE Code : 6406**
- **MSBTE Code : 0041**
- **Affiliated to : Maharashtra State Board of Technical Education, Mumbai (MSBTE)**

# DEPARTMENT OF INFORMATION TECHNOLOGY

## MSBTE MONITORING RATING

Academic Year	MSBTE Departmental Rating
2022-23	Very Good
2023-24	Excellent
2024-25	Excellent

# Curriculum - IF1K

Maharashtra State Board Of Technical Education, Mumbai																									
Learning and Assessment Scheme for Post S.S.C Diploma Courses																									
: Diploma In Artificial Intelligence / Artificial Intelligence and Machine Learning / Cloud Computing and Big Data / Computer Technology / Computer Engineering / Computer Science & Engineering / Data Sciences / Computer Hardware & Maintenance / Information Technology / Computer Science & Information Technology / Computer Science																									
: AI / AN / BD / CM / CO / CW / DS / HA / IF / IH / SE : 2023-24																									
: 6 Semester : 16 WEEKS																									
: First Semester : K																									
Sr No	Course Title	Abbreviation	Course Type	Course Code	Total IKS Hrs for Sem.	Learning Scheme						Credits	Paper Duration (hrs.)	Assessment Scheme										Total Marks	
						Actual Contact Hrs./Week			Self Learning (Activity/ Assignment /Micro Project)	Notional Learning Hrs /Week	Theory			Based on LL & TL			Based on Self Learning								
						CL	TL	LL			FA-TH			SA-TH	Total	EA-PR	SA-PR	Min	Max	Min	Max				
																						Max	Min		Max
(All Compulsory)																									
1	BASIC MATHEMATICS	BMS	AEC	311302	6	4	2	-		2		8	4	3	30	70	100	40	-	-	-	25	10	125	
2	COMMUNICATION SKILLS (ENGLISH)	ENG	AEC	311303	-	3	-	2		1		6	3	3	30	70	100	40	25	10	-	25	10	150	
3	BASIC SCIENCE	BSC	DSC	311305	4	2	-	2		1		10	5	1.5	30	70*	100	40	25	10	25@	10	25	20	250
						2	-	2		1	25								10	25@	10	25			
4	FUNDAMENTALS OF ICT	ICT	SEC	311001	-	1	-	2		1		4	2	-	-	-	-	-	25	10	25@	10	25	10	75
5	ENGINEERING WORKSHOP PRACTICE (COMPUTER GROUP)	WPC	SEC	311002	-	-	-	4		-		4	2	-	-	-	-	-	50	20	50@	20	-	-	100
6	YOGA AND MEDITATION	YAM	VEC	311003	1	-	-	1		1		2	1	-	-	-	-	-	25	10	-	25	10	50	
7	ENGINEERING GRAPHICS (Electronics, Computer and allied branches)	EGP	DSC	311008	2	2	-	4		-		6	3	-	-	-	-	-	50	20	50@	20	-	-	100
Total					13	14	2	17		7		20			90	210	300	225	175		150		850		

# Curriculum - IF2K

## Learning and Assessment Scheme for Post S.S.C Diploma Courses

Programme Name		: Diploma In Artificial Intelligence / Artificial Intelligence and Machine Learning / Cloud Computing and Big Data / Computer Technology / Computer Engineering / Computer Science & Engineering / Data Sciences / Computer Hardware & Maintenance / Information Technology / Computer Science & Information Technology / Computer Science																					
Programme Code		: AI / AN / BD / CM / CO / CW / DS / HA / IF / IH / SE																					
Duration Of Programme		: 6 Semester																					
Semester		: Second																					
		NCrF Entry Level : 3.0																					
		Duration : 16 WEEKS																					
		: 2023-24																					
Sr No	Course Title	Abbreviation	Course Type	Course Code	Total IKS Hrs for Sem.	Learning Scheme						Credits	Paper Duration (hrs.)	Assessment Scheme						Total Marks			
						Actual Contact Hrs./Week		Self Learning (Activity/ Assignment /Micro Project)	Notional Learning Hrs /Week	Theory				Based on LL & TL		Based on Self Learning							
						CL	TL			FA-TH	SA-TH			Total	FA-PR	SA-PR	SLA						
																	Max	Min	Max		Min	Max	Min
(All Compulsory)																							
1	APPLIED MATHEMATICS	AMS	AEC	312301	2	3	1	-	-	4	2	3	30	70	100	40	-	-	-	-	100		
2	BASIC ELECTRICAL AND ELECTRONICS ENGINEERING	BEE	AEC	312302	-	4	-	4	2	10	5	1.5	30	70*#	100	40	50	20	50@	20	50	250	
3	PROGRAMMING IN C	PIC	AEC	312303	-	4	1	4	1	10	5	3	30	70	100	40	50	20	50#	20	25	10	225
4	LINUX BASICS	BLP	DSC	312001	-	2	-	2	-	4	2	-	-	-	-	-	25	10	25@	10	-	-	50
5	PROFESSIONAL COMMUNICATION	PCO	SEC	312002	-	-	-	2	2	2	1	-	-	-	-	-	25	10	25@	10	-	-	50
6	SOCIAL AND LIFE SKILLS	SFS	VEC	312003	-	-	-	-	2	2	1	-	-	-	-	-	-	-	-	50	20	50	125
7	WEB PAGE DESIGNING	WPD	SEC	312004	-	2	-	4	2	8	4	-	-	-	-	-	50	20	50@	20	25	10	125
Total				2		15	2	16	7	20	20	90	210	300	200	200	150	850					

# Curriculum - IF3K

Maharashtra State Board Of Technical Education, Mumbai																															
Learning and Assessment Scheme for Post S.S.C Diploma Courses																															
Programme Name		: Diploma In Information Technology / Computer Science & Information Technology																													
Programme Code		: IF / IH																													
Duration Of Programme		: 6 Semester																													
Semester		: Third																													
		NCRF Entry Level : 3.5																													
		Scheme																													
		: 16 WEEKS																													
		: K																													
Sr No		Course Title	Abbreviation	Course Type	Course Code	Total IKS Hrs for Sem.	Learning Scheme										Credits	Paper Duration (hrs.)	Theory						Based on LL & TL				Based on Self Learning		Total Marks
							Actual Contact Hrs./Week			Self Learning (Activity/ Assignment /Micro Project)	Notional Learning Hrs /Week	Total			FA-TH	SA-TH			Total	FA-PR	SA-PR	Practical	Based on LL & TL								
							CL	TL	LL			Max	Min	Max									Min	Max	Min						
(All Compulsory)																															
1	C	DATA STRUCTURE USING	DSU	DSC	313301	-		3	1	4	-		8	4	3	30	70	100	40	50	20	25#	10	-		-		175			
2		DATABASE MANAGEMENT SYSTEM	DMS	DSC	313302	-		3	1	4	2		10	5	3	30	70	100	40	50	20	25#	10	25		10		200			
3		OBJECT ORIENTED PROGRAMMING USING C++	OOP	SEC	313304	-		3	2	4	1		10	5	3	30	70	100	40	50	20	25@	10	25		10		200			
4		DIGITAL TECHNIQUES AND MICROPROCESSORS	DTM	AEC	313305	-		3	-	2	1		6	3	3	30	70	100	40	25	10	25@	10	25		10		175			
5		ESSENCE OF INDIAN CONSTITUTION	EIC	VEC	313002	-		1	-	-	1		2	1	-	-	-	-	-	-	-	-	-	-	50	20		50			
6		APPLIED MULTIMEDIA TECHNIQUES	AMT	SEC	313003	-		1	-	2	1		4	2	-	-	-	-	25	10	-	-	25	10		50		50			
Total								14	4	16	6		20		120	280	400	200	100	150							850				

# Curriculum - IF4K

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Maharashtra State Board Of Technical Education, Mumbai																								
Learning and Assessment Scheme for Post S.S.C Diploma Courses																								
Programme Name		: Diploma In Information Technology / Computer Science & Information Technology																						
Programme Code		: IF / IH																						
Duration Of Programme		: 6 Semester																						
Semester		: Fourth																						
		N.CrF Entry Level : 3.5																						
		Learning Scheme										Assessment Scheme												
Sr No	Course Title	Abbreviation	Course Type	Course Code	Total IKS Hrs for Sem.	Actual Contact Hrs./Week			Self Learning (Activity/ Assignment /Micro Project)	Notional Learning Hrs /Week	Credits	Paper Duration (hrs.)	Theory				Based on LL & TL				Based on Self Learning		Total Marks	
						CL	TL	LL					FA-TH	SA-TH	Total	EA-PR	SA-PR	Max	Min	Max	Min	Max		Min
(All Compulsory)																								
1	ENVIRONMENTAL EDUCATION AND SUSTAINABILITY	EES	VEC	314301	2	3	-	-	1	4	2	1.5	30	70*#	100	40	-	-	-	25	10	125		
2	JAVA PROGRAMMING	JPR	AEC	314317	-	4	-	4	2	10	5	3	30	70	100	40	25	10	50#	20	25	10	200	
3	DATA COMMUNICATION AND COMPUTER NETWORK	DCN	DSC	314318	-	3	-	4	1	8	4	3	30	70	100	40	25	10	25@	10	25	10	175	
4	INFORMATION SECURITY	INS	AEC	314319	-	3	-	2	1	6	3	3	30	70	100	40	25	10	25@	10	25	10	175	
5	PYTHON PROGRAMMING	PWP	AEC	314004	-	2	-	4	-	6	3	-	-	-	-	50	20	50#	20	-	-	100		
6	INTERNET OF THINGS	IOT	SEC	314006	-	1	-	4	1	6	3	-	-	-	-	25	10	25@	10	25	10	75		
Total					2	16	18	18	6	20	20		120	280	400	150	175	125				850		



# Curriculum - IF5K

Maharashtra State Board Of Technical Education, Mumbai																							
Learning and Assessment Scheme for Post S.S.C Diploma Courses																							
Diploma In Information Technology											With Effect From Academic Year : 2023-24												
: IF											: 12 Weeks (Industry) + 10 Weeks (Institute)												
: 6 Semester											: K												
: Fifth											: K												
NCrF Entry Level : 4.0											Scheme												
Assessment Scheme											Learning Scheme												
Sr No	Course Title	Abbreviation	Course Type	Course Code	Total IKS Hrs for Sem.	Actual Contact Hrs./Week			Self Learning (Activity/Assignment /Micro Project)	Notional Learning Hrs /Week	Credits	Paper Duration (hrs.)	Theory				Based on LL & TL				Total Marks		
						Total							FA-TH	SA-TH	Total	FA-PR	SA-PR	SLA					
						CL	TL	LL															
																			Max	Max		Max	Min
(All Compulsory)																							
1	OPERATING SYSTEM	OSY	DSC	315319	-	5	-	2	2	9	3	3	30	70	100	40	25	10	25@	10	25	10	175
2	SOFTWARE ENGINEERING AND TESTING	SET	DSC	315332	-	4	-	4	1	9	3	3	30	70	100	40	25	10	25@	10	25	10	175
3	ENTREPRENEURSHIP DEVELOPMENT AND STARTUPS	ENDS	AEC	315002	-	1	-	2	-	3	1	-	-	-	-	-	50	20	25@	10	-	-	75
4	SEMINAR AND PROJECT INITIATION COURSE	SPI	AEC	315003	-	-	-	1	2	3	1	-	-	-	-	-	25	10	25@	10	25	10	75
5	INTERNSHIP(12 WEEKS)	ITR	INP	315004	-	-	-	-	-	36 - 40	10	-	-	-	-	-	100	40	100#	40	-	-	200
Elective 1 (Any - One)																							
6	ADVANCE COMPUTER NETWORK	ACN	DSE	315321	-	4	-	2	-	6	2	3	30	70	100	40	25	10	25#	10	-	-	150
	ADVANCE DATABASE MANAGEMENT	ADM	DSE	315324	-	4	-	2	-	6	2	3	30	70	100	40	25	10	25#	10	-	-	150
	DATAANALYTICS	DAN	DSE	315326	-	4	-	2	-	6	2	3	30	70	100	40	25	10	25#	10	-	-	150
	Total					14		11	5		20		90	210	300		250		225		75		850

# Curriculum - IF6K

## SEMESTER : SIXTH

Course Title	Abbreviation	Course Type	Course Code	Total IKS Hrs for Sem.	Learning Scheme				Assessment Scheme												
					Actual Contact Hrs./Week	Self Learning (Activity/ Assignment /Micro Project)			National Learning Hrs /Week	Credits	Paper Duration (hrs.)	Theory			Based on L.L. & TL			Based on Self Learning			
						CL	TL	LL				FA-TH	SA-TH	Total	FA-PR	SA-PR	SLA	Total	Marks		
																				Max	Min
IF (Compulsory)																					
EMERGING TRENDS IN COMPUTER ENGINEERING AND INFORMATION TECHNOLOGY	ETI	DSC	Course Code Will be Created After Locking Scheme	0	3	-	-	1	4	2	1.5	30	70#	100	40	-	-	-	25	10	125
MANAGEMENT	MAN	AEC	315301	1	3	-	-	1	4	2	1.5	30	70#	100	40	-	-	-	25	10	125
WIRELESS AND MOBILE NETWORK	WMN	DSC	Course Code Will be Created After Locking Scheme	0	3	-	4	1	8	4	3	30	70	100	40	25	10	-	25	10	150
CLIENT SIDE SCRIPTING	CSS	AEC	Course Code Will be Created After Locking Scheme	0	2	-	4	-	6	3	-	-	-	-	25	10	25#	10	-	50	
MOBILE APPLICATION DEVELOPMENT	MAAD	DSC	Course Code Will be Created After Locking Scheme	0	2	-	4	2	8	4	-	-	-	-	25	10	25#	10	25	75	
CAPSTONE PROJECT	CPE	INP	Course Code Will be Created After Locking Scheme		-	-	2	2	4	2	-	-	-	-	50	20	50#	20	50	150	
Active 2 (Any - One )																					
DATA WAREHOUSING WITH MINING TECHNIQUES	DWM	DSE	Course Code Will be Created After Locking Scheme		3	-	2	1	6	3	3	30	70	100	40	25	10	25#	10	25	175
DIGITAL FORENSIC AND HACKING TECHNIQUES	DFH	DSE	Course Code Will be Created After Locking Scheme	0	3	-	2	1	6	3	3	30	70	100	40	25	10	25#	10	25	175
MACHINE LEARNING	MAL	DSE	Course Code Will be Created After Locking Scheme		3	-	2	1	6	3	3	30	70	100	40	25	10	25#	10	25	175
Total				1	16	0	16	8	40	20		120	280	400	150		125	175		850	

## **OUR TEACHING FACULTY**

<b>Sr. No.</b>	<b>Name of Faculty</b>	<b>Desgination</b>	<b>Qualification</b>	<b>Exp. (in yrs)</b>
<b>1.</b>	<b>Mrs. Patil M.M.</b>	<b>Head Of Department</b>	<b>M.E.</b>	<b>13</b>
<b>2.</b>	<b>Mr. Bagban S.A.</b>	<b>Lecturer</b>	<b>B.E.</b>	<b>06</b>
<b>3.</b>	<b>Mrs. Nikode S.V.</b>	<b>Lecturer</b>	<b>B.E.</b>	<b>05</b>
<b>4.</b>	<b>Mrs. Pawar M.V.</b>	<b>Lecturer</b>	<b>B.E.</b>	<b>03</b>
<b>5.</b>	<b>Mrs. Jadhav P.M.</b>	<b>Lecturer</b>	<b>B.E.</b>	<b>04</b>
<b>6.</b>	<b>Ms. Yadav S.S.</b>	<b>Lecturer</b>	<b>B.Tech</b>	<b>02</b>
<b>7.</b>	<b>Mrs. More A.V.</b>	<b>Lecturer</b>	<b>B.E.</b>	<b>01</b>
<b>8.</b>				

## **OUR NON-TEACHING STAFF**

<b>Sr. No.</b>	<b>Name of Staff</b>	<b>Qualification</b>	<b>Designation</b>
<b>1.</b>	<b>Mr. Kazmi N.A.K.</b>	<b>M.B.A.</b>	<b>Technical Lab Assistant</b>
<b>2.</b>	<b>Mr. Maske A.M.</b>	<b>B.Sc.</b>	<b>Lab Assistant</b>
<b>3.</b>	<b>Mr. Bebale A.D.</b>	<b>S.S.C.</b>	<b>Peon</b>

# OUR LABORATORIES

Area - 69.60 Sq. m.

Cost - 3,73,400/-

Lab Incharge -  
Mr. Bagban S.A.



Internet lab

**INTERNET LAB**



Programming lab

**PROGRAMMING LAB**

Area - 70.13 Sq. m.

Cost -4,82,000/-

Lab Incharge -  
Mrs. Pawar M.V.

# OUR LABORATORIES

Area - 73.00 Sq. m.

Cost - 5,19,000/-

Lab Incharge -  
Mrs. Nikode S.V.



Multimedia Lab

## MULTIMEDIA LAB



Hardware and  
Networking lab

## HARDWARE & NETWROKING LAB

Area - 81.64 Sq. m.

Cost -3,56,499/-

Lab Incharge -  
Mrs. Jadhav P.M.



# DEPARTMENTAL ACHIEVEMENTS



**AADARSH SHIKSHIKA PURASKAR**  
MRS. PATIL M.M.



**WINNER**  
MSBTE PAPER PRESENTATION COMPETITION



**WINNER & RUNNER-UP**  
IEDSSA ORGANIZED VARIOUS SPORT EVENTS



**WINNER**  
TRADITIONAL DAY COMPETITION AT POLYQUEST WEEK



**FACULTY DEVELOPMENT PROGRAM**  
ORGANIZED FDP ON ADVANCE RESEARCH METHODOLOGIES & PEDAGOGIES



**WINNER**  
TECHNICAL EVENTS AT VARIOUS NAMELY INSTITUTES

# MSBTE TOPPERS WINTER 2024

## TYIF



**92.12%**

**SHINDE ISHITA PRAMOD**  
**9403905858**



**91.77%**

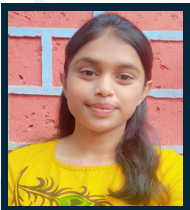
**DHONE SHREYA SURESH**  
**7840907130**



**90.12%**

**KATKAR TEJAS ANANDA**  
**9665662164**

## SYIF



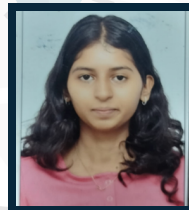
**87.77 %**

**NALAWADE SHRAVANI**  
**SACHIN**  
**9022583168**



**83.88 %**

**BHOSALE SIDDHI**  
**SACHIN**  
**9529031113**



**83.88 %**

**MATANE TANISHKA**  
**VAIBHAV**  
**8766688422**



**83.65 %**

**UKIRDE PRANAJALI**  
**ABHIJIT**  
**7276562797**

# **CAREER OPPORTUNITIES**



**SOFTWARE DEVELOPER**



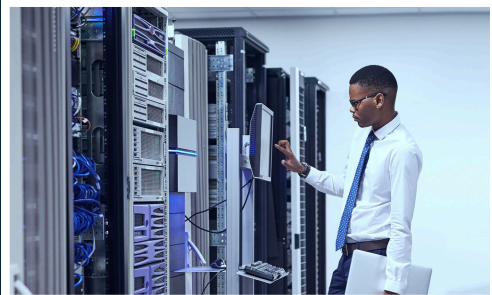
**WEB DEVELOPER**



**DATA ANALYST / DATA SCIENTIST**



**CLOUD ENGINEER**



**IT SUPPORT / SYSTEM ADMINISTRATOR**



**UI/UX DESIGNER**



# MAKE YOUR CAREER IN PROMINENT COMPANIES



Infosys



TECH  
mahindra



amazon



NVIDIA®



L&T Infotech



Information Technology department first batch

Academic year : 2024 - 25



**Rayat Shikshan Sanstha's  
KARMAVEER BHAURAO PATIL POLYTECHNIC, SATARA**

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