

Rajarshi Shahu Maharaj Polytechnic, Nashik

Udoji Maratha Boarding Campus, Near KBTCOE, Gangapur Road, Nashik-13

Affiliated to MSBTE Mumbai, Approved by AICTE New Delhi, DTE Mumbai and Government of Maharashtra, Mumbai

A Micro Project Booklet

Academic Year 2020-21 Even Semester

FYME



DEPARTMENTS



The Maratha Vidya Prasarak Samaj is one of the most prestigious centers of learning in the State of Maharashtra. It manages 485 educational units and is one of the premier educational hub in the Nashik district.

At present, more than 2 lakhs of students are pursuing education. Over past 106 years, the institute has stood the test of time to become legend of unparalleled stature. History says that the credit for the birth of M.V.P.Samaj goes to the young, enthusiastic&devotedteam of social workers and education is ts who were inspired by the lives of Mahatma JyotibaPhule, Savitribai Phule and Rajarshi Shahu MaharajofKolhapur. Theseyoungleading lights include Karmaveer Raosaheb Thorat, Bhausaheb Hire, Kakasaheb Wagh, AnnasahebMurkute, Ganpat Dada More, D. R. Bhonsale, Kirtiwanrao Nimbalkar and Vithoba Patil Khandalaskar, who laid the foundation of the Samaj. They were the men who envisioned the culture and knowledge centric society. The great visionaries of MVP Samaj rightly laid the "Wellbeing and happiness of masses" as the motto for the Samaj.

ABOUT RSM POLYTECHNIC

The Rajarshi Shahu Maharaj Polytechnic has been established in the year 2008, at the central place in Nashik. It is affiliated to MSBTE, Mumbai and approved by Government of Maharashtra, DTE Mumbai and the AICTE, New Delhi. The Polytechnic is in the process of Accreditation and Gradation. The Polytechnic has well-equipped and well-furnished laboratories, workshop and hostel facilities. Every department has separate computational facilities along with LAN, Wi-Fi and necessary software. At present the RSM Polytechnic provides three-year courses leading to Diploma in Engineering of MSBTE, Mumbai in the five disciplines: Mechanical Engineering, Computer Technology, Electronics and Telecommunication Engineering, Information Technology and Electrical Engineering.

VISION AND MISSION

VISION

To Empower the Common Masses by providing Quality Technical Education.

- To create and implement innovative best practices to achieve academicexcellence.
- To enhance the overall development of students by imparting essentialskills.
- Toinculcateprinciplesofprofessionalactivitiesbypromotingindustryinstituteinteractio n and entrepreneurialskills.
- To create an environment awareness for sustainabledevelopment.



Prof.T.K.Thange HOD-SH

INDEX

Sr No.	MICRO PROJECT TITLE	PAGE	
	ASM-P (22202) AAM		
1	Prepare a chart to demonstrate the stress and strain behaviour of different wires of different thickness and material.	2	
2	Prepare model using LDR write information about it.	3	
3	Prepare model on to show different types of motion.	4	
4	Prepare chart for different elastic material.	5	
5	Prepare model on to showing characteristics of laser radiation.	6	
6	Prepare model using LDR write information about it.	7	
7	Prepare chart for different elastic material.	8	
8	Prepare model on to show different types of motion.	9	
	ASM-C (22202) PVP		
1	Water Treatment-collect 3 to 5 water samples to find the dose of bleaching powd Required for it.	11	
2	Water analysis-collect water sample from different water source find the characteristics acidity, conductivity, dissolve solids, suspended particles.	12	
3	Prepare a chart& report showing properties of refractive material	13	
4	Prepare a chart showing types, properties and uses of fuel.	14	
5	Finding the effect of alloy element like Mn, Cr, Ni, W.V, Coand properties of steel prepare chart showing of composition and industrial application of different types of steel based on alloying elements.	15	
6	Prepare a chart& report showing properties of refractive material	16	
7	Prepare a chart showing types, properties and uses of fuel	17	
8	Prepare a chart showing different industrial application of metal and relected it with required property or properties using internet	18	
	AME (22203) MSA		
1	Prepare a chart for Real life Examples of types of forces	20	
2	Collection of photographs of real type simple lifting machine and comparison chart of this with laboratory machine	21	
3	Prepare a charts of actual types of supports	22	
4	Prepare a charts of beam showing Point load and UDL on simple supports	23	
5	Prepare a charts of beam showing Point load and UDL on over hang and cantilever beam	24	
6	Charts on Real type frictional example and coefficient of friction of different mating surface	25	
7	Charts of all elemental shapes showing centre of gravity and Centroid	26	
8	Prepare a chart showing velocity ratio of different types of simple machine with photograph and sketch	27	
AMP (22206) VRP			
1	Tangent and Normal	29	

2	Radius of Curvature	30
3	Integration	31
4	Area of irregular shapes using concept of integration	32
5	Volume of irregular shapes using concept of integration	33
6	Differential Equation	34
7	Binomial Distribution	35
8	Normal Distribution	36
	EDR (22207) HKM	
1	Prepare Square Prism and Pyramid by using cardboard or card sheet	38
2	Prepare Pentagonal Prism and Pyramid by using cardboard or card sheet	39
3	Prepare Hexagonal Prism and Pyramid by using cardboard or card sheet	40
4	Prepare cone and cylinder by using cardboard or card sheet	41
5	Prepare Isometric Model by using cardboard or card sheet	42
6	Prepare Sectional Isometric Model by using cardboard or card sheet	43
7	Prepare Sectional Isometric Model by using cardboard or card sheet	44
8	Prepare sections of Square Prism and Pyramid by using cardboard or card sheet	45
	BCC (22009) CPG	
1	Comparative study of Bio data, Resume & Curriculum Vitae	47
2	A detailed study of guidelines required for presentation skills	48
3	Summarize technical content using English newspaper, magazine or online resources	49
4	Prepare a booklet on aspects of body language in pictorial form	50
5	A detailed study of the importance of technical paper of technical paper presentation	51
6	Case study on the importance of business communication in an organization	52
7	Study of oral presentation of famous business leader	53
8	Summarize Business article with help of English Newspapers/magazines and other sources	54
	MEW (22010) NSM	
1	Survey on various applications of robots in Mechanical Workshop and prepare report.	56
2	Prepare Charts of tools use on Fabrication Shop	57
3	Prepare Charts on Carpentry Joints	58
4	Prepare Charts for Tools use in Fitting Shop	59
5	Prepare Charts for Machine tools use on Machine Shop	60
6	Prepare Charts for on Black Smithy Shop tools and Introduction	61
7	Prenera Charta of tools use on Fabrication Shop	62
	Frepare Charts of tools use on Fabrication Shop	



Rajarshi Shahu Maharaj Polytechnic, Nashik

Udoji Maratha Boarding Campus, Near KBTCOE, Gangapur Road, Nashik-13

Affiliated to MSBTE Mumbai, Approved by AICTE New Delhi, DTE Mumbai and Government of Maharashtra, Mumbai

A Micro Project Booklet

Academic Year 2020-21 Even Semester

FYEJ



DEPARTMENTS



The Maratha Vidya Prasarak Samaj is one of the most prestigious centers of learning in the State of Maharashtra. It manages 485 educational units and is one of the premier educational hub in the Nashik district.

At present, more than 2 lakhs of students are pursuing education. Over past 106 years, the institute has stood the test of time to become legend of unparalleled stature. History says that the credit for the birth of M.V.P.Samaj goes to the young, enthusiastic&devotedteam of social workers and education is ts who were inspired by the lives of Mahatma JyotibaPhule, Savitribai Phule and Rajarshi Shahu MaharajofKolhapur. Theseyoungleading lights include Karmaveer Raosaheb Thorat, Bhausaheb Hire, Kakasaheb Wagh, AnnasahebMurkute, Ganpat Dada More, D. R. Bhonsale, Kirtiwanrao Nimbalkar and Vithoba Patil Khandalaskar, who laid the foundation of the Samaj. They were the men who envisioned the culture and knowledge centric society. The great visionaries of MVP Samaj rightly laid the "Wellbeing and happiness of masses" as the motto for the Samaj.

ABOUT RSM POLYTECHNIC

The Rajarshi Shahu Maharaj Polytechnic has been established in the year 2008, at the central place in Nashik. It is affiliated to MSBTE, Mumbai and approved by Government of Maharashtra, DTE Mumbai and the AICTE, New Delhi. The Polytechnic is in the process of Accreditation and Gradation. The Polytechnic has well-equipped and well-furnished laboratories, workshop and hostel facilities. Every department has separate computational facilities along with LAN, Wi-Fi and necessary software. At present the RSM Polytechnic provides three-year courses leading to Diploma in Engineering of MSBTE, Mumbai in the five disciplines: Mechanical Engineering, Computer Technology, Electronics and Telecommunication Engineering, Information Technology and Electrical Engineering.

VISION AND MISSION

VISION

To Empower the Common Masses by providing Quality Technical Education.

- To create and implement innovative best practices to achieve academicexcellence.
- To enhance the overall development of students by imparting essentialskills.
- Toinculcateprinciplesofprofessionalactivitiesbypromotingindustryinstituteinteractio n and entrepreneurialskills.
- To create an environment awareness for sustainabledevelopment.



Prof.T.K.Thange HOD-SH

INDEX

Sr No.	MICRO PROJECT TITLE	PAGE
	AME (22210) VRP	
1	Tangent and Normal	2
2	Radius of Curvature	3
3	Integration	4
4	Area of irregular shapes using concept of integration	5
5	Volume of irregular shapes using concept of integration	6
6	Differential Equation	7
7	Complex Numbers	8
8	Laplace Transform	9
	EEC (22215) ASP	
1	Collect B-H Curve and Hysteresis loop for various Magnetic Material from Internet	11
2	Collect B-H Curve and Hysteresis loop for various Non-Magnetic Material from Internet	12
3	Visit a Nearby Substation and make a Report on it	13
4	Visit a Nearby Industry and make a Report on it also Draw Single Line Diagram	14
5	Visit a Nearby Pole Mounted Substation and make a Report on it	15
6	Make a Report on different FHP Motors	16
7	Make a Report on different special Purpose Motors used in Robot's	17
8	Visit Institute workshop and Prepare Report on it	18
	BEL (22216) SNS	
1	Prepare a chart on different types of Semiconductor Diodes.	20
2	Build a ckt on general purpose PCB for Half wave rectifier	21
3	Prepare a chart on comparison of specification of BJT using data sheet	22
4	Prepare a display board to visualize the active & Passive components used in ROBOT Ckts.	23
5	Prepare a chart on comparison of FET and BJT	24
6	Prepare a chart to Study different types of filters.	25
7	Build a circuit of DC regulated power supply on PCB for 5V.	26
8	Build a Full wave center tap rectifier to produce DC output	27
EEM (22217) SPJ		
1	To Prepare Chart on Magnetic materials	29
2	To Prepare chart on Semiconducting Materials	30
3	To Prepare chart on Dielectric Materials.	31

4	To Prepare Chart on Conducting materials.	32
4	To Prepare model on Smart Street light using Piezo electricity and their application.	33
6	To Prepare Chart on Conducting materials.	34
7	To Prepare model on Smart Street light using Piezo electricity and their application.	35
8	To Prepare model by Using the Laser.	36
	CPR (22218) RSM	
1	Simple Calculator	38
2	Employee Record system	39
3	String Manipulation	40
4	Matrix Operation	41
5	Basic Mathematics Functions	42
6	Patterns	43
7	Quiz Creation	44
8	Calendar	45
	BCC (22009) CPG	
1	Comparative study of Bio data, Resume & Curriculum Vitae	47
2	A detailed study of guidelines required for presentation skills	48
3	Summarize technical content using English newspaper, magazine or online resources	49
4	Prepare a booklet on aspects of body language in pictorial form	50
5	A detailed study of the importance of technical paper of technical paper presentation	51
6	Case study on the importance of business communication in an organization	52
7	Study of oral presentation of famous business leader	53
8	Summarize Business article with help of English Newspapers/magazines and other sources	54



Rajarshi Shahu Maharaj Polytechnic, Nashik

Udoji Maratha Boarding Campus, Near KBTCOE, Gangapur Road, Nashik-13

Affiliated to MSBTE Mumbai, Approved by AICTE New Delhi, DTE Mumbai and Government of Maharashtra, Mumbai

A Micro Project Booklet

Academic Year 2020-21 Even Semester

FYCM



DEPARTMENTS



The Maratha Vidya Prasarak Samaj is one of the most prestigious centers of learning in the State of Maharashtra. It manages 485 educational units and is one of the premier educational hub in the Nashik district.

At present, more than 2 lakhs of students are pursuing education. Over past 106 years, the institute has stood the test of time to become legend of unparalleled stature. History says that the credit for the birth of M.V.P.Samaj goes to the young, enthusiastic&devotedteam of social workers and education is ts who were inspired by the lives of Mahatma JyotibaPhule, Savitribai Phule and Rajarshi Shahu MaharajofKolhapur. Theseyoungleading lights include Karmaveer Raosaheb Thorat, Bhausaheb Hire, Kakasaheb Wagh, AnnasahebMurkute, Ganpat Dada More, D. R. Bhonsale, Kirtiwanrao Nimbalkar and Vithoba Patil Khandalaskar, who laid the foundation of the Samaj. They were the men who envisioned the culture and knowledge centric society. The great visionaries of MVP Samaj rightly laid the "Wellbeing and happiness of masses" as the motto for the Samaj.

ABOUT RSM POLYTECHNIC

The Rajarshi Shahu Maharaj Polytechnic has been established in the year 2008, at the central place in Nashik. It is affiliated to MSBTE, Mumbai and approved by Government of Maharashtra, DTE Mumbai and the AICTE, New Delhi. The Polytechnic is in the process of Accreditation and Gradation. The Polytechnic has well-equipped and well-furnished laboratories, workshop and hostel facilities. Every department has separate computational facilities along with LAN, Wi-Fi and necessary software. At present the RSM Polytechnic provides three-year courses leading to Diploma in Engineering of MSBTE, Mumbai in the five disciplines: Mechanical Engineering, Computer Technology, Electronics and Telecommunication Engineering, Information Technology and Electrical Engineering.

VISION AND MISSION

VISION

To Empower the Common Masses by providing Quality Technical Education.

- To create and implement innovative best practices to achieve academicexcellence.
- To enhance the overall development of students by imparting essentialskills.
- Toinculcateprinciplesofprofessionalactivitiesbypromotingindustryinstituteinteractio n and entrepreneurialskills.
- To create an environment awareness for sustainabledevelopment.



Prof.T.K.Thange HOD-SH

INDEX

Sr No.	MICRO PROJECT TITLE	PAGE	
	EEC (22215) PAS		
1	Prepare a report on Magnetic Circuit Based on the permeability and shapes of the curves.	2	
2	Prepare a report on Transformer	3	
3	Prepare a Power point presentation on FHP motor for a particular application.	4	
4	3 phase Star connected load	5	
5	3 phase Delta connected load	6	
6	Prepare a report on RL series and parallel circuit	7	
7	Prepare a report on RC series and parallel circuit	8	
8	Prepare a report on RLC series and parallel circuit	9	
	AMI (22224) VRP		
1	Tangent and Normal	11	
2	Radius of Curvature	12	
3	Integration	13	
4	Area of irregular shapes using concept of integration	14	
5	Volume of irregular shapes using concept of integration	15	
6	Differential Equation	16	
7	Algebraic Equations	17	
8	Simultaneous Equations	18	
	BEC (22225) SAS		
1	Basic Electronics components in Robot	20	
2	P-N Junction Diode	21	
3	Bipolar Junction Transistor	22	
4	Field Effect Transistor	23	
5	Sensor & transducer	24	
6	Integrated Circuits	25	
7	Rectifier & Filter	26	
8	Metal oxide Semiconductor field effect transistor	27	
	PCI (22226) GNH		
1	Develop a program to issue books from library by using Structures.	29	
2	 Write a program by using switch statement which has following options: i) Calculate area of circle ii) Calculate simple interest iii) Average of 5 numbers iv) Even or odd number 	30	

3 Develop a menu driven C program for performing banking operation withdraw. 31 4 Write a program to perform string operation 32 2) To find out the uppt of the inputted string. 32 3) To concatenate the two strings are equal or not. 33 5 Create a menu driven program to perform the matrix operation by using 1D 33 6 Develop a program to prepare first semester mark sheet for 10 students. 34 7 State Electricity Board Charges customers as follows: 35 i) 0 = 200 Rs. 0.5 per unit. 35 ii) 0 = 000 Rs. 0.5 oper unit. 35 ii) 0 = 000 Rs. 0.5 oper unit. 35 iii) 0 = 000 Rs. 230 plus Rs. 0.80/unit. 36 8 Create a simple calculator to perform all basics operations like (Addition, subtraction, division, multiplication, power, factorial of a number, Square root of a number, by giving choice of operation with help of switch statement and also use pointers for mathematical calculator to the subress communication is an organization 36 2 A detailed study of guidelines required for presentation skills 39 3 Summarize technical content using English newspaper , magazine or online resources 40 4 Prepare a booklet on aspects of hody language in pictorial form 41		v) Exit		
deposit, balance etc. 32 4 Write a program to perform string operation 32 3) To find out length of the inputted string. 33 3) To concatenate the two strings are equal or not. 33 5 Create a menu driven program to perform the matrix operation by using 1D and 2D array. 33 6 Develop a program to prepare first semester mark sheet for 10 students. 34 7 State Electricity Board Charges customers as follows: 35 i) 0 - 200 Rs. 0.5 per unit. ii) 0 - 400 Rs. 100 plus Rs. 0.65/unit. 35 ii) 0 - 400 Rs. 230 plus Rs. 0.80/unit. iii) 0 - 600 Rs. 230 plus Rs. 0.80/unit. 36 write a Program to calculate the electricity charges and print it along with customer's number by using fluctions. 36 8 Create a simple calculator to perform all basics operations like (Addition, subtraction, division, multiplication, power, factorial of a number, Square root of a number) by giving choice of operation with help of switch statement and also use pointers for mathematical calculations. 38 2 A detailed study of guidelines required for presentation skills 39 3 Summarize technical content using English newspaper , magazine or online resources 41 4 A detailed study of the importance of technical paper of technical paper presentation	3	Develop a menu driven C program for performing banking operation withdraw,	31	
4 Write a program to perform string operation 52 4 1) To find out trapping of the imputted string. 2) To find out trapping are equal or not. 3) 5 Create a menu driven program to perform the matrix operation by using 1D and 2D array. 33 6 Develop a program to prepare first semester mark sheet for 10 students. 34 7 State Electricity Board Charges customers as follows: 35 i) 0 - 200 Rs. 0.5 per unit. ii) 201 400 Rs. 230 plus Rs. 0.65/anit. 35 iii) 201 - 400 Rs. 230 plus Rs. 0.80/unit. iv) 5-601 Rs. 300 plus Rs. 0.80/unit. 36 write a Program to calculate the electricity charges and print it along with customer's number by using functions. 36 8 Create a simple calculator to perform all basics operations like (Addition, subtraction, division, multiplication, power, factorial of a number, Square root of a number, by giving choice of operation with help of switch statement and also use pointers for mathematical calculations. 38 2 A detailed study of Bio data, Resume & Curriculum Vitae 38 3 Summarize technical content using English newspaper , magazine or online resources 40 4 Prepare a booklet on aspects of body language in pictrial form 41 5 A detailed study of the importance of technical paper presentation <		deposit, balance etc.	20	
2) To find out twost rings are equal or not. 3) To concatenate the two strings. 5 Create a menu driven program to perform the matrix operation by using 1D and 2D array. 6 Develop a program to prepare first semester mark sheet for 10 students. 7 State Electricity Board Charges customers as follows: 1) 0 - 200 Rs. 0.5 per unit. 35 1) 0 - 200 Rs. 0.5 per unit. 35 1) 0 - 200 Rs. 0.5 per unit. 35 1) 0 - 600 Rs. 230 plus Rs. 0.80/unit. 36 with a Program to calculate the electricity charges and print it along with customer's number by using functions. 36 8 Sufficient Rs. 390 plus Rs. 0.80/unit. 36 9 string a roorgram to calculate the electricity charges and print it along with customer's number by using functions. 36 8 Sufficient Rs. 390 plus Rs. 0.80/unit. 36 9 sinple calculator to perform all basics operations like (Addition, subrateriction, division, multiplication, power, factorial of a number, Square root of a number, by giving choice of operation with help of switch statement and also use pointers for mathematical calculations. 38 2 A detailed study of guidelines required for presentation skills 39 3 Summarize technical content using English newspaper , magazine or online resources </td <td>4</td> <td>1) To find out length of the inputted string</td> <td>32</td>	4	1) To find out length of the inputted string	32	
3) To concatenate the two strings. 33 5 Create a menu driven program to perform the matrix operation by using 1D anay. 33 6 Develop a program to prepare first semester mark sheet for 10 students. 34 7 State Electricity Board Charges customers as follows: i) 0 – 200 Rs. 0.5 per unit. 35 ii) 201 – 400 Rs. 100 plus Rs. 0.65/unit. 35 iii) 401 – 600 Rs. 230 plus Rs. 0.80/unit. 36 write a Program to calculate the electricity charges and print it along with customer's number by using functions. 36 8 Create a simple calculator to perform all basics operations like (Addition, subtraction, division, multiplication, power, factorial of a number, Square root of a number) by giving choice of operation with help of switch statement and also use pointers for mathematical calculations. 38 2 A detailed study of Bio data, Resume & Curriculum Vitae 38 3 Summarize technical content using English newspaper , magazine or online resources 40 4 Prepare a booklet on aspects of body language in pictorial form 41 5 A detailed study of the importance of technical paper of technical paper presentation 42 6 Case study on the importance of business communication in an organization 43 7 Study of oral presentation of famous business communi		2) To find out two strings are equal or not.		
5 Create a menu driven program to perform the matrix operation by using 1D 33 6 Develop a program to prepare first semester mark sheet for 10 students. 34 7 State Electricity Board Charges customers as follows: i) 0 - 200 Rs. 0.5 per unit. ii) 201 - 400 Rs. 100 plus Rs. 0.65/unit. iii) 401 - 600 Rs. 230 plus Rs. 0.80/unit. iv) >=601 Rs. 309 plus Rs. 1.00/unit. 35 8 Create a simple calculator to perform all basics operations like (Addition, subtraction, division, multiplication, power, factorial of a number, Square root of a number) by giving choice of operation with help of switch statement and also use pointers for mathematical calculations. 36 9 Comparative study of Bio data, Resume & Curriculum Vitae 38 2 A detailed study of guidelines required for presentation skills 39 3 Summarize technical content using English newspaper , magazine or online resources 40 4 Prepare a booklet on aspects of body language in pictorial form 41 5 A detailed study of the importance of technical paper presentation 42 6 Case study on the importance of business communication in an organization 43 7 Study of ara presentation of famous business leader 44 8 Summarize Business article with help of English Newspapers/magazines and other sources 45 7 <td></td> <td>3) To concatenate the two strings.</td> <td></td>		3) To concatenate the two strings.		
and 2D array. 34 6 Develop a program to prepare first semester mark sheet for 10 students. 34 7 State Electricity Board Charges customers as follows: i) 0 - 200 Rs. 0.5 per unit. ii) 401 - 600 Rs. 230 plus Rs. 0.80/unit. iii) 401 - 600 Rs. 230 plus Rs. 0.80/unit. iii) 401 - 600 Rs. 230 plus Rs. 0.80/unit. iv) >=601 Rs. 390 plus Rs. 0.80/unit. Write a Program to calculate the electricity charges and print it along with customer's number by using functions. 36 8 Create a simple calculator to perform all basics operations like (Addition, subtraction, division, multiplication, power, factorial of a number, Square root of a number; by giving choice of operation with help of switch statement and also use pointers for mathematical calculations. 36 9 Comparative study of Bio data, Resume & Curriculum Vitae 38 2 A detailed study of guidelines required for presentation skills 39 3 Summarize technical content using English newspaper , magazine or online resources 40 4 Prepare a booklet on aspects of body language in pictorial form 41 5 A detailed study of the importance of technical paper of technical paper presentation 43 7 Study of oral presentation of famous business leader 44 8 Summarize Business article wi	5	Create a menu driven program to perform the matrix operation by using 1D	33	
6 Develop a program to prepare first semester mark sheet for 10 students. 34 7 State Electricity Board Charges customers as follows: 35 i) 0 - 200 Rs. 0.5 per unit. 35 ii) 201 - 400 Rs. 100 plus Rs. 0.65/unit. 35 iii) 401 - 600 Rs. 230 plus Rs. 0.80/unit. 36 iii) 401 - 600 Rs. 230 plus Rs. 0.80/unit. 36 with a Program to calculate the electricity charges and print it along with customer's number by using functions. 36 8 Create a simple calculator to perform all basics operations like (Addition, storem rot of a number) by giving choice of operation with help of switch statement and also use pointers for mathematical calculations. 36 2 A detailed study of Bio data, Resume & Curriculum Vitae 38 3 Summarize technical content using English newspaper, magazine or online resources 40 4 Prepare a booklet on aspects of body language in pictorial form 41 5 A detailed study of the importance of technical paper of technical paper presentation 42 6 Case study on the importance of business communication in an organization 43 7 Study of oral presentation of famous business leader 44 8 Summarize Business article with help of English Newspapers/magazines and other sources		and 2D array.	24	
7 State Electricity Board Charges customers as follows: 35 7 i) 0 - 200 Rs. 0.5 per unit. ii) 201 - 400 Rs. 100 plus Rs. 0.65/unit. iii) 401 - 600 Rs. 230 plus Rs. 0.80/unit. iv) >=601 Rs. 390 plus Rs. 1.00/unit. 36 8 Create a simple calculator to perform all basics operations like (Addition, subtraction, division, multiplication, power, factorial of a number, Square root of a number by using choice of operation with help of switch statement and also use pointers for mathematical calculations. 36 8 Create a simple calculator to using English newspaper , magazine or online resources 40 4 Prepare a booklet on aspects of body language in pictorial form 41 5 A detailed study of the importance of technical paper of technical paper presentation 42 6 Case study on the importance of business communication in an organization 43 7 Study of oral presentation of famous business leader 44 8 Summarize Business article with help of English Newspapers/magazines and other sources 45 9 Microprocessor 49 47 2 Computer Motherboard 48 3	6	Develop a program to prepare first semester mark sheet for 10 students.	34	
1) 0 - 200 KS (0.3) per unit. iii) 201 - 400 Rs. 230 plus Rs. 0.80/unit. iii) 401 - 600 Rs. 230 plus Rs. 0.80/unit. iii) 401 - 600 Rs. 230 plus Rs. 0.80/unit. ivii) 401 - 600 Rs. 230 plus Rs. 0.80/unit. Write a Program to calculate the electricity charges and print it along with customer's number by using functions. Create a simple calculator to perform all basics operations like (Addition, subtraction, division, multiplication, power, factorial of a number, Square root of a number) by giving choice of operation with help of switch statement and also use pointers for mathematical calculations. BCC (22009) CPG 1 Comparative study of Bio data, Resume & Curriculum Vitae 38 2 A detailed study of guidelines required for presentation skills 39 3 Summarize technical content using English newspaper, magazine or online resources 40 4 Prepare a booklet on aspects of body language in pictorial form 41 5 A detailed study of the importance of technical paper of technical paper presentation 42 6 Case study on the importance of business leader 44 8 Summarize Business article with help of English Newspapers/magazines and other sources 45 0 Leader Suby Suby Suby Suby Suby Suby Suby Suby	7	State Electricity Board Charges customers as follows:	35	
iii) 401 – 600 Rs. 230 plus Rs. 0.80/unit. iii) 401 – 600 Rs. 230 plus Rs. 0.80/unit. iii) 401 – 600 Rs. 230 plus Rs. 0.80/unit. iv) >=601 Rs. 390 plus Rs. 1.00/unit. Write a Program to calculate the electricity charges and print it along with customer's number by using functions. 8 Create a simple calculator to perform all basics operations like (Addition, solutraction, division, multiplication, power, factorial of a number, Square root of a number) by giving choice of operation with help of switch statement and also use pointers for mathematical calculations. 36 BCC (22009) CPG 1 Comparative study of Bio data, Resume & Curriculum Vitae 38 2 A detailed study of guidelines required for presentation skills 39 3 Summarize technical content using English newspaper , magazine or online resources 40 4 Prepare a booklet on aspects of body language in pictorial form 41 5 A detailed study of the importance of technical paper of technical paper presentation 42 6 Case study on the importance of business communication in an organization 43 7 Study of oral presentation of famous business leader 44 8 Summarize Business article with help of English Newspapers/magazines and other sources 50 1 SMPS (switched Mode Power Supply)		i) $201 - 400$ Rs. 0.5 per unit. ii) $201 - 400$ Rs. 100 plus Rs. 0.65/unit		
iii) 401 - 600 Rs. 230 plus Rs. 0.80/unit. iv) >=601 Rs. 390 plus Rs. 1.00/unit. Write a Program to calculate the electricity charges and print it along with customer's number by using functions. 8 Create a simple calculator to perform all basics operations like (Addition, subtraction, division, multiplication, power, factorial of a number, Square root of a number) by giving choice of operation with help of switch statement and also use pointers for mathematical calculations. 36 BCC (22009) CPG 1 Comparative study of Bio data, Resume & Curriculum Vitae 38 2 A detailed study of guidelines required for presentation skills 39 3 Summarize technical content using English newspaper , magazine or online resources 40 4 Prepare a booklet on aspects of body language in pictorial form 41 5 A detailed study of the importance of technical paper of technical paper presentation 42 6 Case study on the importance of business communication in an organization 43 7 Study of oral presentation of famous business leader 44 8 Summarize Business article with help of English Newspapers/magazines and other sources 45 CPH (22013) SVS 1 SMPS (switched Mode Power Supply) 47 2 C		iii) $401 - 600$ Rs. 230 plus Rs. 0.80/unit.		
iv) >=601 Rs. 300 plus Rs. 1.00/unit. Write a Program to calculate the electricity charges and print it along with customer's number by using functions. 8 Create a simple calculator to perform all basics operations like (Addition, subtraction, division, multiplication, power, factorial of a number, Square root of a number) by giving choice of operation with help of switch statement and also use pointers for mathematical calculations. 36 1 Comparative study of Bio data, Resume & Curriculum Vitae 38 2 A detailed study of guidelines required for presentation skills 39 3 Summarize technical content using English newspaper , magazine or online resources 40 4 Prepare a booklet on aspects of body language in pictorial form 41 5 A detailed study of the importance of technical paper of technical paper presentation 42 6 Case study on the importance of business communication in an organization 43 7 Study of oral presentation of famous business leader 44 8 Summarize Business article with help of English Newspapers/magazines and other sources 45 CPH (22013) SVS 1 SMPS (switched Mode Power Supply) 47 2 Computer Motherboard 48 3 Microprocessor 49		iii) 401 – 600 Rs. 230 plus Rs. 0.80/unit.		
Write a Program to calculate the electricity charges and print it along with customer's number by using functions. 36 Create a simple calculator to perform all basics operations like (Addition, subtraction, division, multiplication, power, factorial of a number, Square root of a number) by giving choice of operation with help of switch statement and also use pointers for mathematical calculations. 36 I Comparative study of Bio data, Resume & Curriculum Vitae 38 2 A detailed study of guidelines required for presentation skills 39 3 Summarize technical content using English newspaper, magazine or online resources 40 4 Prepare a booklet on aspects of body language in pictorial form 41 5 A detailed study of the importance of technical paper of technical paper presentation 42 6 Case study on the importance of business communication in an organization 43 7 Study of oral presentation of famous business leader 44 8 Summarize Business article with help of English Newspapers/magazines and other sources 50 1 SMPS (switched Mode Power Supply) 47 2 Computer Motherboard 48 3 Microprocessor 49 4 Computer Specifications 51 6 Network		iv) >=601 Rs. 390 plus Rs. 1.00/unit.		
Create a simple calculator to perform all basics operations like (Addition, division, multiplication, power, factorial of a number, Square root of a number) by giving choice of operation with help of switch statement and also use pointers for mathematical calculations. 36 BCC (22009) CPG 1 Comparative study of Bio data, Resume & Curriculum Vitae 38 2 A detailed study of guidelines required for presentation skills 39 3 Summarize technical content using English newspaper, magazine or online resources 40 4 Prepare a booklet on aspects of body language in pictorial form 41 5 A detailed study of the importance of technical paper of technical paper presentation 42 6 Case study on the importance of business communication in an organization 43 7 Study of oral presentation of famous business leader 44 8 Summarize Business article with help of English Newspapers/magazines and other sources 45 CPH (22013) SVS 1 SMPS (switched Mode Power Supply) 47 2 Computer Motherboard 48 3 Microprocessor 49 4 Computer Specifications 51 6 Network Layout 52		Write a Program to calculate the electricity charges and print it along with		
8 Create a simple calculation perform an obset operations inter (yearbox) is subtraction, division, multiplication, power, factorial of a number, Square root of a number) by giving choice of operation with help of switch statement and also use pointers for mathematical calculations. 38 1 Comparative study of Bio data, Resume & Curriculum Vitae 38 2 A detailed study of guidelines required for presentation skills 39 3 Summarize technical content using English newspaper , magazine or online resources 40 4 Prepare a booklet on aspects of body language in pictorial form 41 5 A detailed study of the importance of technical paper of technical paper presentation 42 6 Case study on the importance of business communication in an organization 43 7 Study of oral presentation of famous business leader 44 8 Summarize Business article with help of English Newspapers/magazines and other sources 45 0 Computer Motherboard 48 3 Microprocessor 49 4 Computer Specifications 51 6 Network Layout 52 7 UPS (Uninterupted Power supply) 53 8 Hard Disk Drive 54 <td colspan<="" td=""><td></td><td>Create a simple calculator to perform all basics operations like (Addition</td><td>36</td></td>	<td></td> <td>Create a simple calculator to perform all basics operations like (Addition</td> <td>36</td>		Create a simple calculator to perform all basics operations like (Addition	36
of a number) by giving choice of operation with help of switch statement and also use pointers for mathematical calculations. BCC (22009) CPG 1 Comparative study of Bio data, Resume & Curriculum Vitae 38 2 A detailed study of guidelines required for presentation skills 39 3 Summarize technical content using English newspaper , magazine or online resources 40 4 Prepare a booklet on aspects of body language in pictorial form 41 5 A detailed study of the importance of technical paper of technical paper presentation 42 6 Case study on the importance of business communication in an organization 43 7 Study of oral presentation of famous business leader 44 8 Summarize Business article with help of English Newspapers/magazines and other sources 49 1 SMPS (switched Mode Power Supply) 47 2 Computer Motherboard 48 3 Microprocessor 49 4 Computer Specifications 50 5 Peripherals Specifications 51 6 Network Layout 52 7 UPS (Uninterupted Power supply) 53 8 Hard	8	subtraction, division, multiplication, power, factorial of a number, Square root	50	
also use pointers for mathematical calculations. BCC (22009) CPG 1 Comparative study of Bio data, Resume & Curriculum Vitae 38 2 A detailed study of guidelines required for presentation skills 39 3 Summarize technical content using English newspaper , magazine or online resources 40 4 Prepare a booklet on aspects of body language in pictorial form 41 5 A detailed study of the importance of technical paper of technical paper presentation 42 6 Case study on the importance of business communication in an organization 43 7 Study of oral presentation of famous business leader 44 8 Summarize Business article with help of English Newspapers/magazines and other sources 45 CPH (22013) SVS 1 SMPS (switched Mode Power Supply) 47 2 Computer Motherboard 48 3 Microprocessor 49 4 Computer Specifications 50 5 Peripherals Specifications 51 6 Network Layout 52 7 UPS (Uninterupted Power supply) 53 8 Hard Disk Drive		of a number) by giving choice of operation with help of switch statement and		
BCC (22009) CPG 1 Comparative study of Bio data, Resume & Curriculum Vitae 38 2 A detailed study of guidelines required for presentation skills 39 3 Summarize technical content using English newspaper , magazine or online resources 40 4 Prepare a booklet on aspects of body language in pictorial form 41 5 A detailed study of the importance of technical paper of technical paper presentation 42 6 Case study on the importance of business communication in an organization 43 7 Study of oral presentation of famous business leader 44 8 Summarize Business article with help of English Newspapers/magazines and other sources 45 CPH (22013) SVS 1 SMPS (switched Mode Power Supply) 47 2 Computer Motherboard 48 3 Microprocessor 49 4 Computer Specifications 50 5 Peripherals Specifications 51 6 Network Layout 52 7 UPS (Uninterrupted Power supply) 53 8 Hard Disk Drive 54 WPD (22014) PNP		also use pointers for mathematical calculations.		
1 Comparative study of Bio data, Resume & Curriculum Vitae 38 2 A detailed study of guidelines required for presentation skills 39 3 Summarize technical content using English newspaper , magazine or online resources 40 4 Prepare a booklet on aspects of body language in pictorial form 41 5 A detailed study of the importance of technical paper of technical paper presentation 42 6 Case study on the importance of business communication in an organization 43 7 Study of oral presentation of famous business leader 44 8 Summarize Business article with help of English Newspapers/magazines and other sources 45 CPH (22013) SVS 1 SMPS (switched Mode Power Supply) 47 2 Computer Motherboard 48 3 Microprocessor 49 4 Computer Specifications 50 5 Peripherals Specifications 51 6 Network Layout 52 7 UPS (Uninterupted Power supply) 53 8 Hard Disk Drive 54 WPD (22014) PNP 1 Website for PCI Su		BCC (22009) CPG		
2 A detailed study of guidelines required for presentation skills 39 3 Summarize technical content using English newspaper , magazine or online resources 40 4 Prepare a booklet on aspects of body language in pictorial form 41 5 A detailed study of the importance of technical paper of technical paper presentation 42 6 Case study on the importance of business communication in an organization 43 7 Study of oral presentation of famous business leader 44 8 Summarize Business article with help of English Newspapers/magazines and other sources 45 0 Computer Motherboard 48 3 Microprocessor 49 4 Computer Specifications 50 5 Peripherals Specifications 51 6 Network Layout 52 7 UPS (Uninterupted Power supply) 53 8 Hard Disk Drive 54 WPD (22014) PNP 1 Website for PCI Subject 56 2 Website for COVID 19 Protection and Enguiry Form 57	1	Comparative study of Bio data, Resume & Curriculum Vitae	38	
3 Summarize technical content using English newspaper , magazine or online resources 40 4 Prepare a booklet on aspects of body language in pictorial form 41 5 A detailed study of the importance of technical paper of technical paper presentation 42 6 Case study on the importance of business communication in an organization 43 7 Study of oral presentation of famous business leader 44 8 Summarize Business article with help of English Newspapers/magazines and other sources 45 CPH (22013) SVS 1 SMPS (switched Mode Power Supply) 47 2 Computer Motherboard 48 3 Microprocessor 49 4 Computer Specifications 50 5 Peripherals Specifications 51 6 Network Layout 52 7 UPS (Uninterupted Power supply) 53 8 Hard Disk Drive 54 Website for PCI Subject 56 2 Website for COVID 19 Protection and Enguiry Form 57	2	A detailed study of guidelines required for presentation skills	39	
4 Prepare a booklet on aspects of body language in pictorial form 41 5 A detailed study of the importance of technical paper of technical paper presentation 42 6 Case study on the importance of business communication in an organization 43 7 Study of oral presentation of famous business leader 44 8 Summarize Business article with help of English Newspapers/magazines and other sources 45 CPH (22013) SVS 1 SMPS (switched Mode Power Supply) 47 2 Computer Motherboard 48 3 Microprocessor 49 4 Computer Specifications 50 5 Peripherals Specifications 51 6 Network Layout 52 7 UPS (Uninterupted Power supply) 53 8 Hard Disk Drive 54 WPD (22014) PNP 1 Website for PCI Subject 56 2 Website for COVID 19 Protection and Enguiry Form 57	3	Summarize technical content using English newspaper, magazine or online resources	40	
5 A detailed study of the importance of technical paper of technical paper presentation 42 6 Case study on the importance of business communication in an organization 43 7 Study of oral presentation of famous business leader 44 8 Summarize Business article with help of English Newspapers/magazines and other sources 45 CPH (22013) SVS 1 SMPS (switched Mode Power Supply) 47 2 Computer Motherboard 48 3 Microprocessor 49 4 Computer Specifications 50 5 Peripherals Specifications 51 6 Network Layout 52 7 UPS (Uninterupted Power supply) 53 8 Hard Disk Drive 54 WPD (22014) PNP 1 Website for PCI Subject 56 2 Website for COVID 19 Protection and Enguiry Form 57	4	Prepare a booklet on aspects of body language in pictorial form	41	
6Case study on the importance of business communication in an organization437Study of oral presentation of famous business leader448Summarize Business article with help of English Newspapers/magazines and other sources45CPH (22013) SVS1SMPS (switched Mode Power Supply)472Computer Motherboard483Microprocessor494Computer Specifications505Peripherals Specifications516Network Layout527UPS (Uninterupted Power supply)538Hard Disk Drive54WPD (22014) PNP1Website for PCI Subject562Website for COVID 19 Protection and Enguiry Form57	5	A detailed study of the importance of technical paper of technical paper presentation	42	
7Study of oral presentation of famous business leader448Summarize Business article with help of English Newspapers/magazines and other sources45CPH (22013) SVS1SMPS (switched Mode Power Supply)472Computer Motherboard483Microprocessor494Computer Specifications505Peripherals Specifications516Network Layout527UPS (Uninterupted Power supply)538Hard Disk Drive54WPD (22014) PNP1Website for PCI Subject562Website for COVID 19 Protection and Enquiry Form57	6	Case study on the importance of business communication in an organization	43	
8 Summarize Business article with help of English Newspapers/magazines and other sources 45 CPH (22013) SVS 1 SMPS (switched Mode Power Supply) 47 2 Computer Motherboard 48 3 Microprocessor 49 4 Computer Specifications 50 5 Peripherals Specifications 51 6 Network Layout 52 7 UPS (Uninterupted Power supply) 53 8 Hard Disk Drive 54 WPD (22014) PNP 1 Website for PCI Subject 56 2 Website for COVID 19 Protection and Enguiry Form 57	7	Study of oral presentation of famous business leader	44	
CPH (22013) SVS1SMPS (switched Mode Power Supply)472Computer Motherboard483Microprocessor494Computer Specifications505Peripherals Specifications516Network Layout527UPS (Uninterupted Power supply)538Hard Disk Drive54WPD (22014) PNP1Website for PCI Subject562Website for COVID 19 Protection and Enquiry Form57	8	Summarize Business article with help of English Newspapers/magazines and other sources	45	
1SMPS (switched Mode Power Supply)472Computer Motherboard483Microprocessor494Computer Specifications505Peripherals Specifications516Network Layout527UPS (Uninterupted Power supply)538Hard Disk Drive54WPD (22014) PNP1Website for PCI Subject562Website for COVID 19 Protection and Enquiry Form57		CPH (22013) SVS		
2Computer Motherboard483Microprocessor494Computer Specifications505Peripherals Specifications516Network Layout527UPS (Uninterupted Power supply)538Hard Disk Drive54WPD (22014) PNP1Website for PCI Subject562Website for COVID 19 Protection and Enquiry Form57	1	SMPS (switched Mode Power Supply)	47	
3Microprocessor494Computer Specifications505Peripherals Specifications516Network Layout527UPS (Uninterupted Power supply)538Hard Disk Drive54WPD (22014) PNP1Website for PCI Subject562Website for COVID 19 Protection and Enquiry Form57	2	Computer Motherboard	48	
4Computer Specifications505Peripherals Specifications516Network Layout527UPS (Uninterupted Power supply)538Hard Disk Drive54WPD (22014) PNP1Website for PCI Subject562Website for COVID 19 Protection and Enquiry Form57	3	Microprocessor	49	
5Peripherals Specifications516Network Layout527UPS (Uninterupted Power supply)538Hard Disk Drive54WPD (22014) PNP1Website for PCI Subject562Website for COVID 19 Protection and Enquiry Form57	4	Computer Specifications	50	
6Network Layout527UPS (Uninterupted Power supply)538Hard Disk Drive54WPD (22014) PNP1Website for PCI Subject562Website for COVID 19 Protection and Enquiry Form57	5	Peripherals Specifcations	51	
7 UPS (Uninterupted Power supply) 53 8 Hard Disk Drive 54 WPD (22014) PNP 1 Website for PCI Subject 56 2 Website for COVID 19 Protection and Enquiry Form 57	6	Network Layout	52	
8 Hard Disk Drive 54 WPD (22014) PNP 1 Website for PCI Subject 56 2 Website for COVID 19 Protection and Enquiry Form 57	7	UPS (Uninterupted Power supply)	53	
WPD (22014) PNP 1 Website for PCI Subject 56 2 Website for COVID 19 Protection and Enquiry Form 57	8	Hard Disk Drive	54	
1Website for PCI Subject562Website for COVID 19 Protection and Enquiry Form57		WPD (22014) PNP		
2 Website for COVID 19 Protection and Enquiry Form 57	1	Website for PCI Subject	56	
	2	Website for COVID 19 Protection and Enquiry Form	57	

3	Website for Book Shops	58
4	Website related to any Sports	59
5	Website for any Vehicle Showroom	60
6	Website for Hospital Management System	61
7	Website for Travel and Tourism Agency	62
8	Website for ayurveda herbs for immune system	63



Rajarshi Shahu Maharaj Polytechnic, Nashik

Udoji Maratha Boarding Campus, Near KBTCOE, Gangapur Road, Nashik-13

Affiliated to MSBTE Mumbai, Approved by AICTE New Delhi, DTE Mumbai and Government of Maharashtra, Mumbai

A Micro Project Booklet

Academic Year 2020-21 Even Semester

FYIF



DEPARTMENTS



The Maratha Vidya Prasarak Samaj is one of the most prestigious centers of learning in the State of Maharashtra. It manages 485 educational units and is one of the premier educational hub in the Nashik district.

At present, more than 2 lakhs of students are pursuing education. Over past 106 years, the institute has stood the test of time to become legend of unparalleled stature. History says that the credit for the birth of M.V.P.Samaj goes to the young, enthusiastic&devotedteam of social workers and education is ts who were inspired by the lives of Mahatma JyotibaPhule, Savitribai Phule and Rajarshi Shahu MaharajofKolhapur. Theseyoungleading lights include Karmaveer Raosaheb Thorat, Bhausaheb Hire, Kakasaheb Wagh, AnnasahebMurkute, Ganpat Dada More, D. R. Bhonsale, Kirtiwanrao Nimbalkar and Vithoba Patil Khandalaskar, who laid the foundation of the Samaj. They were the men who envisioned the culture and knowledge centric society. The great visionaries of MVP Samaj rightly laid the "Wellbeing and happiness of masses" as the motto for the Samaj.

ABOUT RSM POLYTECHNIC

The Rajarshi Shahu Maharaj Polytechnic has been established in the year 2008, at the central place in Nashik. It is affiliated to MSBTE, Mumbai and approved by Government of Maharashtra, DTE Mumbai and the AICTE, New Delhi. The Polytechnic is in the process of Accreditation and Gradation. The Polytechnic has well-equipped and well-furnished laboratories, workshop and hostel facilities. Every department has separate computational facilities along with LAN, Wi-Fi and necessary software. At present the RSM Polytechnic provides three-year courses leading to Diploma in Engineering of MSBTE, Mumbai in the five disciplines: Mechanical Engineering, Computer Technology, Electronics and Telecommunication Engineering, Information Technology and Electrical Engineering.

VISION AND MISSION

VISION

To Empower the Common Masses by providing Quality Technical Education.

- To create and implement innovative best practices to achieve academicexcellence.
- To enhance the overall development of students by imparting essentialskills.
- Toinculcateprinciplesofprofessionalactivitiesbypromotingindustryinstituteinteractio n and entrepreneurialskills.
- To create an environment awareness for sustainabledevelopment.



Prof.T.K.Thange HOD-SH

INDEX

Sr No.	MICRO PROJECT TITLE	PAGE
EEC (22215) PRG		
1	Collect B-H Curve and Hysteresis loop for various Magnetic Material From Internet	2
2	Collect B-H Curve and Hysteresis loop for various Non Magnetic Material From Internet	3
3	Prepared a Coil Without Core. Visit a Nearby Substation and make a Report.	4
4	Visit a Near by Substation or industry and observe the arrangement for power factor correction or improvement	5
5	Observe the three phase power distribution panel in their own institute/commercial complex/mall and draw single line diagram	6
6	Visit a Near by Pole mounted Substation and prepared a report	7
7	Select a FHP for particular application and prepared a report	8
8	Visit Institute workshop and Prepare Report	9
	AMI (22224) TKT	
1	Function	11
2	Derivatives And it's Applications	12
3	Integration And it's Applications	13
4	Differential Equations And it's Applications	14
5	Numerical Methods	15
6	Derivatives And it's Applications	16
7	Integration And it's Applications	17
8	Numerical Methods	18
	BEC (22225) NAG	
1	Build a ckt on general purpose PCB to clip negative half cycle of input signal.	20
2	Prepare a chart on comparison of specification of FET using data sheets.	21
3	Build a Full wave center tap rectifier to produce DC output.	22
4	Build a ckt to switch ON and OFF LED by using BJT switching components.	23
5	Prepare a display board to visualize the active and passive electronic components used in ROBOT Circuits.	24
6	Build a ckt to turn relay ON and OFF by using photo diode.	25
7	Build a Full wave bridge rectifier to produce DC output.	26
8	Prepare a chart on BJT contains Construction, symbol, configurations, advantages and applications	27
PCI (22226) SSR		
1	Generate the Students Record (Report card)	29

2	Bank Management system	30
3	Display the Library record	31
4	Hotel Management system	32
5	Online Billing System	33
6	Food ordering system	34
7	Calendar using C	35
8	Quiz game using switch case	36
	BCC (22009) CPG	
1	Comparative study of Bio data, Resume & Curriculum Vitae	38
2	A detailed study of guidelines required for presentation skills	39
3	Summarize technical content using English newspaper, magazine or online resources	40
4	Prepare a booklet on aspects of body language in pictorial form	41
5	A detailed study of the importance of technical paper of technical paper presentation	42
6	Case study on the importance of business communication in an organization	43
7	Study of oral presentation of famous business leader	44
8	Summarize Business article with help of English Newspapers/magazines	45
	CPH (22013) SST	I
1	Prepare a brief report on different types of computers.	47
2	Prepare a brief report on active and passive components of motherboard.	48
3	Prepare a brief report on different types of microprocessors used in industry.	49
4	Prepare a brief report on different components in SMPS.	50
5	Prepare a brief report on hard disk drive.	51
6	Prepare a brief report on troubleshooting the problems in I/O Devices.	52
7	Prepare a brief report on different computer specification available in market.	53
8	Prepare a brief report on troubleshooting the different network problems.	54
	WPD (22014) MBP	
1	Website for College	56
2	Website for Bookshop	57
3	Website for Vehicle Showroom	58
<u> </u>		50
4	Website for Hospital	39
4 5	Website for Hospital Website for Travel Agency	60
4 5 6	Website for Hospital Website for Travel Agency Website for Electronics Devices	60 61
4 5 6 7	Website for Hospital Website for Travel Agency Website for Electronics Devices Website related to any sports	59 60 61 62



Rajarshi Shahu Maharaj Polytechnic, Nashik

Udoji Maratha Boarding Campus, Near KBTCOE, Gangapur Road, Nashik-13

Affiliated to MSBTE Mumbai, Approved by AICTE New Delhi, DTE Mumbai and Government of Maharashtra, Mumbai

A Micro Project Booklet

Academic Year 2020-21 Even Semester

FYEE



DEPARTMENTS



The Maratha Vidya Prasarak Samaj is one of the most prestigious centers of learning in the State of Maharashtra. It manages 485 educational units and is one of the premier educational hub in the Nashik district.

At present, more than 2 lakhs of students are pursuing education. Over past 106 years, the institute has stood the test of time to become legend of unparalleled stature. History says that the credit for the birth of M.V.P.Samaj goes to the young, enthusiastic & devotedteam of social workers and education is ts who were inspired by the lives of Mahatma Jyotiba Phule, Savitribai Phule and Rajarshi Shahu Maharajof Kolhapur. Theseyoungleading lights include Karmaveer Raosaheb Thorat, Bhausaheb Hire, Kakasaheb Wagh, Annasaheb Murkute, Ganpat Dada More, D. R. Bhonsale, Kirtiwanrao Nimbalkar and Vithoba Patil Khandalaskar, who laid the foundation of the Samaj. They were the men who envisioned the culture and knowledge centric society. The great visionaries of MVP Samaj rightly laid the "Wellbeing and happiness of masses" as the motto for the Samaj.

ABOUT RSM POLYTECHNIC

The Rajarshi Shahu Maharaj Polytechnic has been established in the year 2008, at the central place in Nashik. It is affiliated to MSBTE, Mumbai and approved by Government of Maharashtra, DTE Mumbai and the AICTE, New Delhi. The Polytechnic is in the process of Accreditation and Gradation. The Polytechnic has well-equipped and well-furnished laboratories, workshop and hostel facilities. Every department has separate computational facilities along with LAN, Wi-Fi and necessary software. At present the RSM Polytechnic provides three-year courses leading to Diploma in Engineering of MSBTE,Mumbai in the five disciplines: Mechanical Engineering, Computer Technology, Electronics and Telecommunication Engineering, Information Technology and Electrical Engineering.

VISION AND MISSION

VISION

To Empower the Common Masses by providing Quality Technical Education.

- To create and implement innovative best practices to achieve academicexcellence.
- To enhance the overall development of students by imparting essentialskills.
- Toinculcateprinciplesofprofessionalactivitiesbypromotingindustryinstituteinteractio n and entrepreneurialskills.
- To create an environment awareness for sustainabledevelopment.



Prof.T.K.Thange HOD-SH

	INDEX	
Sr No.	MICRO PROJECT TITLE	PAGE
	AME (22210) TKT	
1	Function	2
2	Derivatives And it's Applications	3
3	Integration And it's Applications	4
4	Differential Equations And it's Applications	5
5	Complex Number and Laplace Transform	6
6	Derivatives And it's Applications	7
7	Integration And it's Applications	8
8	Complex Number and Laplace Transform	9
	ASE-P (22211) SPJ	
1	To Prepare model on Various Types of Capacitors	11
2	To Prepare model by using LASER	12
3	To Prepare model on Ultrasonic Sound Wave	13
4	To Prepare model on Smart Street light using Piezo electricity	14
5	To Prepare model on Series combination of capacitor	15
6	To Prepare model on Parallel combination of capacitor	16
7	To Prepare model on Smart Street light using Piezo electricity	17
8	To Prepare model by using LASER	18
	ASE-C (22211) DBM	
1	Analysis of Water Sample-Find Out Hardness of water	20
2	Prepare working model of cell from Vegetable or Fruit	21
3	Report on Reference Electrode and Prepare Chart on it.	22
4	Prepare report and chart on Thermocouples	23
5	Prepare report on Water Softening Process	24
6	Prepare report on different types of Batteries and prepare model of any one battery	25
7	Prepare report on Insulating material of Rubber – It's Classification, Examples	26
8	Prepare report on Electrical Insulators–Examples	27
FEE (2212) PRG		
1	Prepared a chart showing real life example indicating various type of electrical equipment	29
2	Collect photograph of resistances and prepared a model of series circuits	30
3	Collect photograph of resistances and prepared a model of parallel circuits	31
4	Collect photograph of Capacitance and prepared a model of series circuits	32

5	Collect photograph of Capacitance and prepared a model of parallel circuits	33
6	Collect photograph of Inductance and prepared a model of series circuits	34
7	Collect photograph of Inductance and prepared a model of Parallel circuits	35
8	Prepared a chart of electrical circuit elements and relevant industrial application	36
	EOE (22213) PGD	
1	Build a circuit on PCB to clip a positive half cycle & prepare a report	38
1		39
2	Build a circuit on PCB to clamp a waveform & prepare a report	40
3	Build a circuit on PCB to turn relay on or off by using photodiode and prepare a report	41
4	Build a HWR on PCB & Prepare a report	42
5	Build a Bridge rectifier on PCB & Prepare a report	43
6	Build a DC voltage regulated power supply on PCB & Prepare a report	44
7	Survey of Electronics Components in Robot (LCD, LED, Battery)	45
8	Build a LED blinking circuit using suitable digital circuit	46
	BME (22214) HKM	
1	Collect data of gas turbines used for power plant of different capacities from internet	47
2	Prepare charts showing parts of different types of commonly used hydraulic turbines from reference book	48
3	Prepare charts showing parts of different types of commonly used in diesel engine	49
4	Prepare a chart explaining the component of Air Compressor and its application	50
5	A detailed study of refrigeration and air conditioning for a domestic application	51
6	Collect data of gas turbines used for power plant of different capacities from internet	52
7	Prepare charts showing parts of different types of commonly used hydraulic turbines from reference book	53
8	Draw electrical layout of Power plant	54
	BCC (22009) CPG	
1	Comparative study of Bio data, Resume & Curriculum Vitae	56
2	A detailed study of guidelines required for presentation skills	57
3	Summarize technical content using English newspaper, magazine.	58
4	Prepare a booklet on aspects of body language in pictorial form	59
5	A detailed study of the importance of technical paper of technical paper presentation	60
6	Case study on the importance of business communication in an organization	61
7	Study of oral presentation of famous business leader	62
8	Summarize Business article with help of English Newspapers.	63
~		