



Pune Vidyarthi Griha's
College of Science, Pune -09

PVGCOS

NAAC

6.2.4

2021-22



Pune Vidyarthi Griha's
COLLEGE OF SCIENCE

(Accredited by NAAC)

Affiliated to Savitribai Phule Pune University: Identification No PU/PN/SC/157/2001

S.No.44, Vidyanagari, Parvati, Pune 411009

Telephone: (020) 2422 1484, Website: www.pvgcos.ac.in

09/11/2021

To,

Hon'ble Secretary,
Pune Vidyarthi Griha,
Pune-411030

Subject : Approval for purchasing of new Electronics Circuit Boards for Electronics Lab

Respected Sir,

With reference to the above mentioned subject and as per the requirement of the college, we need to purchase new electronic circuit boards for Electronics Lab for additional division of B. Sc. (Computer Science) and as per revised syllabus (2019 pattern) prescribed by Savitribai Phule Pune University for S. Y. B. Sc. (Computer Science).

Hence, we have obtained quotations for the same and prepared comparative statement, which is enclosed herewith for your reference and kind consideration.

We hereby request you to kindly sanction the requirement of the same.

Thanking You,
Yours Faithfully

Dr. S. M. Gaikwad
Principal


Prof. R. G. Kaduskar
Director


P.V.G's College of Science, Pune-9

Comparative Statement for Electronics Circuit boards as per the revised syllabus 2020-21 for S. Y. B. Sc (Computer Science)

Sr. No.	Supplier / Vendor	Quantity	Total (Rs.)	Gross Total (Rs.) Total + 18% GST
1	MICROCODE SOLUTION	18	164600	194228
2	Om Electronics	18	204200	204200
3	Adhyansh Robotronics Technologies	18	274400	323792

Remark: MICROCODE SOLUTION has quoted lowest rate for Electronics Circuit boards, hence recommended to purchase from the same.


Dr. S. M. Gaikwad
Principal


01/12/2021
Prof. R. G. Kaduskar
Director

Prof. R. S. Kamble
Secretary

MICROCODE SOLUTIONS

QUOTATIONS

Manufacturers, Sales, Service and Repairs of Educational Kits and Instruments.

Shop No. 12, Talekar Heights, Parvati gaon, Pune 411009. Ph. 02029992492.

Date 28th Oct 2021

QUOTATIONS

To, The Principal, PVG's College of Science Parvati, Dist.- Pune 411009	Quotation No. – MS19/28 Oct 2021 Enquiry: by email Date: 28/10/2021 GSTIN: 27 AYUPD 4298 F1ZX
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Respected Sir/ Madam,

Following is the list of S.Y.B.Sc. (CS) as per revised syllabus Experimental Kits. Following the list of quotations according to your requirements.

Sr. No.	Description	Qty	Rate	Total Amount
1	Interfacing of thumbwheel & seven segment display to 8051 microcontroller	1	4500.00	4500.00
2	Traffic light controller using 8051 microcontroller	1	4200.00	4200.00
3	Event counter using opto-coupler, seven segment LED/LCD display interface to 8051Microcontroller	1	4600.00	4600.00
4	Study of 3 or 4 Bit Pulse Code Modulation technique	1	NA	NA
5	Study of Frequency Shift Keying	1	3200.00	3200.00
6	Study of Time Division Multiplexing	1	3200.00	3200.00
7	Study of Frequency Division Multiplexing	1	4100.00	4100.00
8	Study of Error detection and correction by using Hamming Code technique	1	4100.00	4100.00
9	Programming of Raspberry Pi to get feedback from a switch connected to the GPIO pins	2	8200.00	16400.00
10	Programming of Raspberry Pi to detect temperature using temperature sensor	2	8600.00	17200.00
11	Programming of Raspberry Pi to detect light intensity using photocell sensor	2	8200.00	16400.00

12	Programming of Raspberry Pi for Motion detection	2	8800.00	17600.00
13	Programming of Raspberry Pi for image detection	2	9000.00	18000.00
14	Study of Zigbee for one operation with Arduino Board	2	6800.00	13600.0
15	Study of RFID system with Arduino Board	2	4800.00	9600.00
16	To study Arduino based LED switching using mobile	2	4300.00	4300.00
17	Temperature and humidity sensing using Arduino	2	5200.00	5200.00
18	LoRa Interfacing	2	9200.00	18400.00
Final Total			96250.00	164600.00
GST Amount				29628.00
Gross Total				194228.00

Terms and Conditions:

1	Terms of Payment	Immediately after Delivery of materials with demonstration.
2	Delivery	4-6 weeks after receiving the Purchase Order
3	Validity Period	4 weeks. The duration and rates of Raspberry Pi based kits may change depending on the availability of the components.
4	Warranty	1 year against manufacture defect only.
5	GSTIN	27 AYUPD 4298 F1ZX

Proprietor

Charulata D.

MICROCODE SOLUTIONS, PUNE



[Signature]
Principal
P.V.G.'s College of Science
Vidyanagari, S. No. 44, Parvati,
Pune - 411 009

MICROCODE SOLUTIONS, PUNE



OM ELECTRONICS

Mfg. of : Educational Electronic Kits, DC Power Supplies,

Customer oriented

Electronic System & Maintenances of all Electronic Systems

"Chandrakuti", Shivkrupa society, Jagtap Dairy, Pune - 411027. Mobile: 9881407423

Date:- 16/10/2021

To,
The Principal,
PVG's College of Science,
Pune-09

Subject :- Quotation for Electronic Circuit Boards.

Respected Sir,

As per your requirement we are sending quotation for electronics practical boards as per the new syllabus prescribed by SPPU for S. Y. B.Sc. (C. S.) Electronics.

Sr. No.	Name of Circuit Board	Qty	Rate for one	Total
Group A				
1	Interfacing of thumbwheel & seven segment display to 8051 microcontroller	1	4650.00	4650.00
2	Traffic light controller using 8051 microcontroller	1	4250.00	4250.00
3	Event counter using opto-coupler, seven segment LED/LCD display interface to 8051Microcontroller	1	4750.00	4750.00
Group B				
4	Study of 3 or 4 Bit Pulse Code Modulation technique	1	3950.00	3950.00
5	Study of Frequency Shift Keying	1	3550.00	3550.00
6	Study of Time Division Multiplexing	1	3850.00	3850.00
7	Study of Frequency Division Multiplexing	1	4350.00	4350.00
8	Study of Error detection and correction by using Hamming Code technique	1	4550.00	4550.00
Group C				
9	Programming of Raspberry Pi to get feedback from a switch connected to the GPIO pins	2	9650.00	19300
10	Programming of Raspberry Pi to detect temperature using	2	9850.00	19700

	temperature sensor			
11	Programming of Raspberry Pi to detect light intensity using photocell sensor	2	10500.00	21000
12	Programming of Raspberry Pi for Motion detection	2	9750.00	19500
13	Programming of Raspberry Pi for image detection	2	12500.00	25000
	Group D			
14	Study of RFID system	2	4750.00	9500
15	Study of Zig-bee for one application	2	4650.00	9300
16	To study Arduino based LED switching using mobile	2	4550.00	9100
17	Temperature and humidity sensing using Arduino	2	5450.00	10900
18	LoRa Interfacing.	2	13500.00	27000
			Total	204200
			GST	NA
			Gross Total	204200

Note

1. No GST is applicable, as the yearly turnover is less than 20 lacks.
2. All board have one year warenty.

Thank you,

Mrs. Hemlata Shingte,
Proprieter,
Om Electronics,
Pune.



[Signature]
Principal
P.V.G.'s College of Science
Vidyanagari, S. No. 44, Parvati,
Pune - 411 009

ADHYANSH ROBOTRONICS TECHNOLOGIES

Address : C-2/9, Todkar Township, sr No. 29, Sasane Nagar, Hadapsar, Pune-28.

Contact Details : 7020194227/9404270332. Email : k_ingle123@yahoo.co.in

Manufacturing, Repairing, Sales and Service Electronics Lab boards and Instruments.

To, The Principal PVG'S College of Science, Parvati , Dist. Pune. Pune-411009.	Reg. No : 2131000315676175
	Quotation No: FY/SY/12/2021.
	Enquiry : By E-mail
	Date of Quotation: 07/11/2021.
	Date of Order :

Respected Sir/Madam,

Following is the List of S. Y. B. Sc. (CS) as per revised syllabus Experimental Kits.

We are pleased to quote as follows.

Sr.No.	Name of Experiment	Qty.	Rate	Total Amount
1	Interfacing of thumb wheel & seven segment displays to 8051 Microcontroller.	1	8000.00	8000.00
2	Traffic light controller using 8051 microcontroller.	1	8000.00	8000.00
3	Event counter using opto-coupler ,seven segment LED/LCD display Interface to 8051 microcontroller.	1	8500.00	8500.00
4	Study of 3 or 4 bit pulse code modulation Technique	1	9000.00	9000.00
5	Study of Frequency shift keying.	1	4500.00	4500.00
6	Study of Time division Multiplexing	1	5000.00	5000.00
7	Study of frequency division Multiplexing	1	5000.00	10000.00
8	Study of Error detection and correction by Hamming code technique.	1	8000.00	8000.00
9	Program the Raspberry Pi to get feedback from a switch connected to the GPIO pins (With Raspberry Pi setup)	2	9700.00	19400.00
10	Program the Raspberry Pi to get the temperature from a sensor connected to the GPIO pins (With Raspberry Pi setup)	2	11000.00	22000.00
11	Program the Raspberry Pi to detect room light intensity from a photocell sensor connected to the GPIO pins (With Raspberry Pi setup)	2	11000.00	22000.00
12	Program the Raspberry Pi for Motion detection using Raspberry pi (With Raspberry Pi setup)	2	11000.00	22000.00

13	Program the Raspberry Pi for interfacing the Camera to grab the image. (With Raspberry Pi setup)	2	12000.00	24000.00
14	Study of RFID system (Transmitter and Receiver)	2	15000.00	30000.00
15	Study of Zig-bee and its interfacing with Arduino Uno Board	2	12000.00	24000.00
16	Temperature and humidity sensing using Arduino Uno Board	2	7500.00	15000.00
17	To study Arduino Uno Board based LED switching using Mobile.	2	7500.00	15000.00
18	Study of LoRa Interfacing.	2	10000.00	20000.00
Final Total				274400.00
GST Amount (18%)				49392.00
Gross Total				323792.00

Terms and Conditions:

1. 100% Advance payment along with the purchase order.
2. 1 year warranty against manufacture defects.
3. All the above rates are excluding GST (18% GST Extra).
4. Delivery of Experimental kits within 2 to 4 weeks from date of Actual purchase order with advance payment.
5. All experimental kits are Tested Ok and we will provide demonstration.


Kindly inform us in case of any clarifications.

Thanking you!



For ADHYANSH ROBOTRONICS TECHONOLOGIES




Principal
 P.V.G.'s College of Science
 Vidyanagari, S. No. 44, Parvati
 Pune - 411 009

PVG's College of Science, Pune-09

Electronics Department

To,

The Principal,

PVG's College of Science,

Subject :- Requirement of Electronics Circuit Boards,

Respected Sir,

As per the subject cited above, our Electronics Department needs to be upgrade with new Circuit Boards. Savitribai Phule Pune University had been revised the syllabus for Electronics Science of S. Y. B. Sc. (Comp. Sci.) from academic year 2020. As per the revised syllabus and new Theory & Practical concepts introduced in the syllabus, we are in need to purchase new enlisted circuit boards.

Sr. No.	Name of Circuit Board	Quantity
1	Interfacing of thumbwheel & seven segment display to 8051 microcontroller	1
2	Traffic light controller using 8051 microcontroller	1
3	Event counter using opto-coupler, seven segment LED/LCD display interface to 8051Microcontroller	1
4	Study of 3 or 4 Bit Pulse Code Modulation technique	1
5	Study of Frequency Shift Keying	1
6	Study of Time Division Multiplexing	1
7	Study of Frequency Division Multiplexing	1
8	Study of Error detection and correction by using Hamming Code technique	1
9	Programming of Raspberry Pi to get feedback from a switch connected to the GPIO pins	2
10	Programming of Raspberry Pi to detect temperature using temperature sensor	2
11	Programming of Raspberry Pi to detect light intensity using photocell sensor	2
12	Programming of Raspberry Pi for Motion detection	2

13	Programming of Raspberry Pi for image detection	2
14	Study of RFID system	2
15	Study of Zig-bee for one application	2
16	To study Arduino based LED switching using mobile	2
17	Temperature and humidity sensing using Arduino	2
18	Lo Ra Interfacing.	2

Please refer to the list and do the needful as early as possible.

Thanks & Regards,

U Patil

Urmila Patil

Electronics Department

Pisal Mahadeo

Pisal Mahadeo

Electronics Department

List verified

MB

Dr. M. H. Belsare

Dept of E&TC

PVG's COET & GKPIIM, Pune



Principal

Principal

P.V.G.'s College of Science
Vidyanagari, S. No. 44, Parvati,
Pune - 411 009