



V.R.SIDDHARTHA ENGINEERING COLLEGE
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BUDGET 2020-21

Submitted to Principal

Dt.: 24-08-2020

Sub: BUDGET Proposal for the Academic year: 2020-2021 Dept. of EIE-VRSEC-Submitted-Reg.
 The budget proposal that includes both Non-Recurring and Recurring expenditure for the academic year 2020-2021 is enclosed.

(A) NON RECURRING BUDGET

a) Upgradation of Laboratories/Innovation Centre

Advanced Instrumentation lab and NI Academy

Sl.No.	Particulars	Qty.	Cost per Unit Rs.	Total Cost (Rs.) (Approximate)	Justification	Remarks
1	Computer Systems- Intel i5 Processor, 8GB RAM, 1TB Hard Disk, Wi-Fi card, Dedicated Graphics Card, Wired Mouse and Keyboard	25	60000	15,00,000	The existing systems are purchased on 09/05/2008 with the following configuration Intel core 2 Duo CPU, 2GB RAM, 500GB Hard Disk, Wired mouse and keyboard. The existing systems are unable to run the modern software tools such as LabVIEW and MATLAB effectively. During the execution the systems are hanging and unable to display the results. Due to aging LCD panels of all the systems are bleeding so it become very difficult to read the content displayed on the monitor.	Modernization of the lab to meet VR17 curriculum.
Total				15,00,000		

Industrial Automation Lab

S.No.	Particulars	Qty.	Cost (Rs.) (Approximate)	Justification	Remarks
1	a). PLC Based DC Motor Speed Control (PID based) without/with IoT enabled b). PLC -SIE 3 With Demo panel Training kit c. IoT 2040 Gateway	1	2,25,000	These are required to meet the laboratory requirements of VR-17 regulations.	The existing equipment is procured in 26/11/2007 and suffering frequent servicing/repairing. Hence procurement of new equipment with additional advanced technology is proposed.
2	a. PLC Based Temperature Control (PID based)	1	30,000	These Equipment's are required to meet the laboratory requirements of VR-17 regulations.	
	Total		2,55,000		

Microcontrollers and Embedded Systems Lab

S.No.	Particulars	Qty.	Cost (Rs.) (Approximate)	Justification	Remarks
1.	Electrical Wiring (In the centre line for accommodating 10 systems and 10 Hardware kits)		60,000/-	To accommodate new systems in the laboratory	Up gradation of the existing laboratory
	Total		60,000/-		

Process Control Lab

S.No.	Particulars	Qty.	Cost (Rs.) (Approximate)	Justification	Remarks
1	Temperature Process Station	1	2,40,000	These process stations are procured in 1996, So, replacement with new equipment is required meet the laboratory requirements of VR-17 regulations.	To establish the new equipment in the laboratory
2	Flow Process Station	1	2,95,000		
3	SCR Control Unit	1	30,000	These are required to meet the laboratory requirements of VR-17 regulations.	To augment the existing lab equipment
4	Air Compressor (110 Lts) (1 HP motor)	1	55,000	Existing air compressor is purchased in 1996, So, replacement with new compressor is required to meet the laboratory requirements of VR-17 regulations.	To augment the existing lab equipment
5	Pump Motors (Kirloskar with plumbing setup)	4	21,000	These are required to meet the laboratory requirements of VR-17 regulations.	To augment the existing lab equipment
	Total		6,41,000		

Analog and Digital ICs Lab

S.No.	Particulars	Qty.	Cost (Rs.) (Approximate)	Justification	Remarks
1	Digital IC trainer kits	10	1,20,000 (Each unit price 12,000)	In order to meet the laboratory requirements of VR17 regulations.	To fulfil the laboratory requirements of VR17 regulations
	Total		1,20,000/-		

Measurements lab

Sl. No.	Particulars	Qty.	Cost per unit (in Rs.)	Total cost (in Rs.)	Justification	Remarks
1	Digital multi meter handheld	5	3,500/-	17,500/-	To use standard measuring meters for accurate measurement of circuit parameters	To augment the existing lab equipment
2	Function Generators (1 GHz, two outputs)	3	15,000/-	45,000/-	To upgrade the lab with standard signal generators	
3	Multipurpose Instrument	2	28,000/-	56,000/-	To meet the laboratory requirements of VR17 regulations	To upgrade the lab equipment with simulation experience and measuring meter
4	Digital Oscilloscopes (100 MHz, 2 Channels)	3	30,000/-	90,000/-	To upgrade the lab with standard DSO	To augment the existing lab equipment
5	Moulded type Cables (2mm)	250	50/-	12,500	For carrying out experiments smoothly	
				Total	2,21,000/-	

Electronic Circuits Lab

S.No.	Particulars	Qty.	Cost (Rs.) (Approximate)	Justification	Remarks
1.	Electronic workstations	5	4,75,000 (Each unit price 95,000)	Up gradation of the existing laboratory	Up gradation of the existing laboratory With safety measures
Total			4,75,000/-		

Transducers lab

Sl. No.	Particulars	Qty.	Cost per unit (in Rs.)	Total cost (in Rs.)	Justification	Remarks
1	Hall Effect (Current & Voltage) Transducer	2	65,000/-	1,30,000/-	To meet the laboratory requirements of VR17 regulations	To augment the existing lab equipment
	Total			1,30,000/-		

b) Upgrading of Class rooms/ Labs/Seminar halls/Department Office

S.No.	Particulars	Qty.	Cost (Rs.) (Approximate)	Justification	Remarks
1.	Water Dispensers Voltas Mini-magic Plus F 3.2L 500W Water Dispenser (White)	3	30,000/- (10,000/- per unit)	To meet the safety guide lines given by the government and to decrease the crowd at water points by providing more number of water dispensers	To maintain the social distance parameter by increasing the water dispenser points.
2.	Computer Tables (To equip 1 computer and one hardware kit)	8	1,10,000/-	To provide individual system for each student in Microcontrollers and Embedded Systems laboratory.	To upgrade laboratory as per VR-17 curriculum
3.	Computer Chairs	16	40,000/-	To increase the Microcontrollers and Embedded Systems laboratory facilities.	To upgrade laboratory as per VR-17 curriculum
	Total		1,80,000/-		

(B) RECURRING BUDGET

(a) Maintenance & Spares:

S.No.	Particulars	Amount (Rs.)	Justification
1.	Consumables for the labs	30,000/-	To purchase components required for conducting the experiments.
2.	Maintenance and Repairs	1,00,000/-	For regular maintenance of the lab
3	Stationary and miscellaneous	70,000/-	Regular office work & stationery required for the faculty
	Total	Rs.2,00,000/-	

(b) Faculty Development Activities (Workshops, Seminars, and Guest Lectures etc.:

Sl.No.	Particulars	Amount (Rs.)	Justification
1.	For Paper Publications in reputed journals	1,00,000/-	To meet the expenditure to organize guest lectures by industry experts for the benefit of the students
2.	For attending FDPs, Workshops and conferences	50,000/-	To meet the expenditure for the faculty to attend various training programs for improving their knowledge/teaching learning skills/research
3.	For Faculty Industry Institute Interaction	50,000/-	To meet the expenditure for the faculty to undergo industrial training
	Total	Rs.2,00,000/-	

(c) Student development Activities:

Sl.No.	Particulars	Amount (Rs.)	Justification
1	Model development by students	1,00,000/-	To encourage the students to develop innovative models
2	Idea churning sessions	30,000/-	For conducting brainstorming sessions to the students to generate innovative ideas

3	Participation in student competitions at premier institutions	60,000/-	To encourage the students to participate in various competitions at premier institutions
4	Patent filing	70,000/-	To file the patents for innovative projects
5	EDC activities	40,000/-	To impart entrepreneurial education/skills amongst students through various trainings
6	Professional society activities	1,00,000/-	To nurture a passion for self-employment
7	Industrial visits & tours	30,000/-	For organizing the Guest lectures, seminars and other workshops to the students
Total		Rs.4,30,000/-	To meet the expenditure of the faculty accompanying industrial visits.

Non-Recurring budget (in Rs.)

Total Non-Recurring budget (in Rs.)

Recurring Budget (in Rs.)

Total Recurring Budget (in Rs.)

Total Non-Recurring & Recurring Budget (in Rs.) = Rs. 44,12,000/-

a) Rs.34,02,000/-

b) Rs.1,80,000/-

Rs. 35,82,000/-

a) Rs.2,00,000/-

b) Rs.2,00,000/-

c) Rs.4,30,000/-

Rs.8,30,000/-


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