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**ST.XAVIER'S CATHOLIC COLLEGE OF ENGINEERING**  
**(Autonomous)**  
**NAGERCOIL - 629 003**

SXCCE/CIR/PRL/G/69/2024

21.06.2024

**CIRCULAR**

Sub: SXCCE - Purchase committee -meeting- Reg.

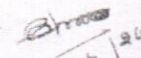
Purchase committee meeting is arranged on 25<sup>th</sup> June , 2024 at 3:00 pm at Board room.

**Agenda:**

1. To present the minutes of previous meeting and action taken.
2. Summary of last year 2023 - 2024 expenditure.
3. Requested budget for the academic year 2024 - 2025,
4. Other matters.

All the members of the committee are requested to attend the meeting without fail.

To  
Members

  
21 | 6 | 24  
**PRINCIPAL**



**St. XAVIER'S**  
CATHOLIC COLLEGE OF ENGINEERING  
(Autonomous)

Chunkankadai, Nagercoil - 629003  
Kanyakumari District, Tamil Nadu

An Autonomous Institution Affiliated to Anna University, Chennai  
Accredited with 'A' Grade by NAAC  
UG Programs( ECE,EEE,Mech,Civil,CSE & IT) Accredited by NBA  
Recognized under section 2(f) & 12(B) of UGC Act, 1956  
UG Programs( ECE,EEE,Mech,Civil,CSE & IT) ,  
MBA & MCA Programs Permanently Affiliated

## Purchase Committee Review Meeting – Attendance # 05

Date : 25/06/2024  
Time : 03:00 p.m - 04:50 p.m  
Venue : Board Room

Sl. No.	Name	Signature
1.	<b>Rev. Fr. S. Godwin Selva Justus</b> Correspondent	<i>Fr. S. Godwin Selva Justus</i> 25/06/2024
2.	<b>Rev. Fr. R. Xavier Raj</b> Financial Administrator	<i>R. Xavier Raj</i> 25/06/2024
3.	<b>Mr. Vincent D.</b> Management Member	<i>Vincent D.</i>
4.	<b>Mr. Arul Dhas V.M.</b> Management Member	<i>Arul Dhas V.M.</i>
5.	<b>Dr. J. Maheswaran</b> Principal	<i>J. Maheswaran</i> 25/06/24
6.	<b>Dr G. Antony Miraculas</b> HoD / MECH	<i>G. Antony Miraculas</i> 25/6/24
7.	<b>Dr.S. Caroline</b> HoD/ ECE	<i>S. Caroline</i> 25/6/24
8.	<b>Mr.P.T.Justin Thiraviyam</b> Office Superintendent	<i>P.T. Justin Thiraviyam</i> 25/6/24

# St. Xavier's Catholic College of Engineering

(An Autonomous Institution)  
Chunkankadai, Nagercoil – 629003.

## AGENDA

- ✓ Minutes of previous meeting held on 07/12/2023 and Action Taken
- ✓ Purchases during the period of report
- ✓ Sanctioned budget 2024 – '25
- ✓ Approval requested for items given by HoDs as per budget and requirements
- ✓ Other matters

### Agenda 1 - Minutes of previous meeting held on 07/12/2023 and Action Taken

Sl. No.	Minutes	Action Taken	Discussion
1a	Purchases made after the Third meeting	Purchases made after the third meeting (07/08/2023) from all departments were presented	The committee recommended the purchase as it was already requested and approved in the budget
1b	Ratification of Purchases	Few items were not requested for purchase initially during the ODD semester 2023 – '24. Due to the establishment of Center of Excellence, the above purchases were made.	The committee members recommended the purchase of above items for the establishment of Center of Excellence.
1c	Purchases/ Maintenance planned for the Even Semester of 2023 – '24	Purchase of equipment planned by the department for the EVEN semester were presented for approval	It was decided to purchase the equipment requested by the various departments

### Agenda 2 - Purchases during the period of report

Sl. No.	Department	Equipment / Item Purchase (in Rs.)	Quantity	Amount (in Rs.)	Total Expenditure Amount (in Rs.)
1	CSE	Lenovo P360 Think station Tower workstation – Intel core 17-13 <sup>th</sup> gen	1	1,90,200	2,46,503
		D Link DAP X2810 Access point	1	15,900	
		D link DGS 1210-28 Ethernet switch	3	35,850	
		12V/65AH Amaron Quanta SMF batteries	10	4553	
2	EEE	-	-	1,22,880	1,22,880

3	ECE	Desktop Computer i7,12 <sup>th</sup> gen,(8GB+8GB)RAM,512GB, SSD,21.5' LED monitor, keyboard, mouse	10	6,45,000	6,45,000
4	MBA	Desktop Computer Lenovo i5, 12 <sup>th</sup> gen/4GB/512 GB SSD/19.5'Monitor	3	1,43,400	1,78,300
		D – Link DGS 1210-10P POE switch	1	10,700	
		D – Link Wireless AC1750 AP	1	24,200	
5	Library	E journal renewal	-	17,42,122	17,42,122
6	CoE Office	-	-	2,58,399	2,58,399
<b>TOTAL</b>				<b>31,93,204</b>	<b>31,93,204</b>

### Agenda 3 - Sanctioned budget 2024 – '25

Sl. No.	Department	Sanctioned Amount (Rs.)
1	Civil	26,79,348
2	Computer Science	24,66,800
3	ECE	17,74,450
4	EEE	18,49,840
5	Mechanical	9,93,550
6	IT	9,09,000
7	AI & DS	13,74,000
8	MBA	9,74,500
9	MCA	11,86,100
10	H & Sc	6,77,300
11	Library	24,33,000
12	Training & Placement cell	15,16,500
13	Office & Principal Office	51,80,000
14	Exam Cell	6,25,000
15	CoE Office	65,53,700
<b>TOTAL</b>		<b>2,46,39,388</b>

### Civil Engineering

Sl. No	Heads	Budget Amount sanctioned by the management
		(Amount in Rupees)
1	Lab Equipment	12,96,770
2	Lab Consumables	62,238
3	Research & Development	2,60,000
4	Furniture and Fittings	1,13,640
5	Repairs & Maintenance	4,76,700
6	Association	1,70,000
7	Industrial Visit	1,70,000
8	Library Books	15,000

9	Contingency	15,000
10	Board of Study	1,00,000
<b>Total</b>		<b>26,79,348</b>

#### Computer Science and Engineering

Sl. No	Heads	Budget Amount sanctioned by the management
		(Amount in Rupees)
1	Lab Equipment	15,00,000
2	Lab Consumables	16,200
3	Research & Development	3,47,000
4	Furniture and Fittings	65,000
5	Repairs & Maintenance	1,30,000
6	Association	1,56,800
7	Industrial Visit	1,56,800
8	Library Books	50,000
9	Contingency	30,000
10	Board of Study	15,000
<b>Total</b>		<b>24,66,800</b>

#### Electronics and Communication Engineering

Sl. No	Heads	Budget Amount sanctioned by the management
		(Amount in Rupees)
1	Lab Equipment	11,46,500
2	Lab Consumables	46,950
3	Research & Development	
4	Furniture and Fittings	84,600
5	Repairs & Maintenance	81,000
6	Association	1,55,200
7	Industrial Visit	1,55,200
8	Library Books	10,000
9	Contingency	15,000
10	Board of Study	80,000
<b>Total</b>		<b>17,74,450</b>

#### Electrical and Electronics Engineering

Sl. No	Heads	Budget Amount sanctioned by the management
		(Amount in Rupees)
1	Lab Equipment	13,93,000
2	Lab Consumables	36,640
3	Research & Development	76,200
4	Furniture and Fittings	60,000
5	Repairs & Maintenance	87,000

6	Association	52,000
7	Industrial Visit	52,000
8	Library Books	5,000
9	Contingency	15,000
10	Board of Study	73,000
<b>Total</b>		<b>18,49,840</b>

#### Mechanical Engineering

Sl. No	Heads	Budget Amount sanctioned by the management
		(Amount in Rupees)
1	Lab Equipment	1,07,000
2	Lab Consumables	28,150
3	Research & Development	
4	Furniture and Fittings	1,22,500
5	Repairs & Maintenance	3,14,900
6	Association	1,28,000
7	Industrial Visit	1,28,000
8	Library Books	50,000
9	Contingency	15,000
10	Board of Study	1,00,000
<b>TOTAL</b>		<b>9,93,550</b>

#### Information Technology

Sl. No	Heads	Budget Amount sanctioned by the management
		(Amount in Rupees)
1	Lab Equipment	60,000
2	Lab Consumables	58,000
3	Research & Development	3,54,800
4	Furniture and Fittings	1,17,200
5	Repairs & Maintenance	91,000
6	Association	84,000
7	Industrial Visit	84,000
8	Library Books	15,000
9	Contingency	15,000
10	Board of Study	30,000
<b>Total</b>		<b>9,09,000</b>

#### Artificial Intelligence & Data Science

Sl. No	Heads	Budget Amount sanctioned by the management
		(Amount in Rupees)
1	Lab Equipment	4,00,000
2	Lab Consumables	

3	Research & Development	75,000
4	Furniture and Fittings	7,00,000
5	Repairs & Maintenance	50,000
6	Association	47,000
7	Industrial Visit	47,000
8	Library Books	10,000
9	Contingency	15,000
10	Board of Study	30,000
<b>Total</b>		<b>13,74,000</b>

**Master of Business Administration**

Sl. No	Heads	Budget Amount sanctioned by the management
		(Amount in Rupees)
1	Lab Equipment	5,60,000
2	Lab Consumables	15,000
3	Research & Development	32,500
4	Furniture and Fittings	1,00,000
5	Repairs & Maintenance	10,000
6	Association	96,000
7	Industrial Visit	96,000
8	Library Books	
9	Contingency	15,000
10	Board of Study	50,000
<b>Total</b>		<b>9,74,500</b>

**Master of Computer Applications**

Sl. No	Heads	Budget Amount sanctioned by the management
		(Amount in Rupees)
1	Lab Equipment	9,00,000
2	Lab Consumables	10,000
3	Research & Development	7,000
4	Furniture and Fittings	35,000
5	Repairs & Maintenance	57,500
6	Association	50,800
7	Industrial Visit	50,800
8	Library Books	10,000
9	Contingency	15,000
10	Board of Study	50,000
<b>Total</b>		<b>11,86,100</b>

### Humanities and Sciences

Sl. No	Heads	Budget Amount sanctioned by the management
		(Amount in Rupees)
1	Lab Equipment	40,000
2	Lab Consumables	1,14,000
3	Research & Development	1,38,000
4	Furniture and Fittings	32,800
5	Repairs & Maintenance	50,500
6	Association	1,20,000
7	Industrial Visit	1,20,000
8	Library Books	25,000
9	Contingency	15,000
10	Board of Study	22,000
<b>Total</b>		<b>6,77,300</b>

### Library

Sl. No	Heads	Budget Amount sanctioned by the management
		(Amount in Rupees)
1	Books & Journals	21,23,000
2	Computer 3 Nos	1,80,000
3	Stationery	15,000
4	Repairs & Maintenance	15,000
5	Furniture and Fittings	1,00,000
<b>Total</b>		<b>24,33,000</b>

### Training and Placement Cell

Sl. No	Heads	Budget Amount sanctioned by the management
		(Amount in Rupees)
1	Placement Training & Activities	15,00,000
2	Stationery	6,500
3	Repairs & Maintenance	10,000
<b>Total</b>		<b>15,16,500</b>

### Office & Principal Office

Sl. No	Heads	Budget Amount sanctioned by the management
		(Amount in Rupees)
1	Equipment	2,00,000
2	Travelling Expenses	1,60,000
3	Stationery	4,00,000
4	Printing- Student Record, Diary, Calendar, Hand Book, ID card, Student Uniform	28,50,000

5	Refreshment & Hospitality [ GC meeting, Audit and other meetings]	4,50,000
6	Repairs & Maintenance	1,20,000
7	Maintenance General	10,00,000
<b>Total</b>		<b>51,80,000</b>

#### Exam Cell

Sl. No	Heads	Budget Amount sanctioned by the management
		(Amount in Rupees)
1	Stationery	6,00,000
2	Maintenance	25,000
<b>Total</b>		<b>6,25,000</b>

#### Controller of Examinations Office

Sl. No	Heads	Budget Amount sanctioned by the management
		(Amount in Rupees)
1	Equipment	4,13,700
2	Stationery	5,48,000
3	Repairs & Maintenance	14,25,000
4	End Semester Exam Question paper setting	33,00,000
5	University remittance [ for Certificates]	6,17,000
6	Result Board meeting	75,000
7	Exam Refreshment	1,75,000
<b>Total</b>		<b>65,53,700</b>

The committee members noted down the purchases made in this format.

#### Agenda 4 - Budget 2024 - '25

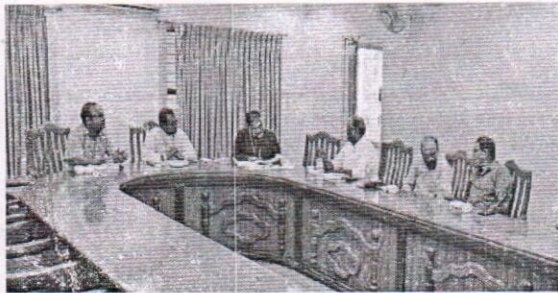
Principal presented the budget 2024 - '25 requested by the HoDs of all departments.

#### Agenda 5 - Approval requested for items given by HoDs as per budget and requirements

Purchase of equipment planned by the department for the academic year 2024 - '25 for approval by the committee members is available in Annexure 1.

#### Agenda 6 - Other matters

- ✓ It was decided to form a small inspection team comprising of the Financial Administrator, OS and the System administrator to check and report whether the items requested by the department HoDs are necessary for purchase. Later it will be verified by the Principal and Correspondent.
- ✓ Income statement should also be presented during the meetings.
- ✓ Digital / e - waste should be properly managed.
- ✓ Prepare the list of items/ component/ computer that can be given to diocesan schools/colleges; component that cannot be serviced and meant for disposal.
- ✓ Receiving quotations from companies need not be restricted to 3.
- ✓ Reserve fund should be maintained to <sup>meet the</sup> needs in times of emergency.



*S. Godwin Selva Justus*  
10/07/2024  
**Rev.Fr. S. Godwin Selva Justus**  
Correspondent

*R. Xavier Raj*  
**Rev.Fr.R.Xavier Raj**  
Bursar

*J. Maheswaran*  
**Dr.J.Maheswaran**  
Principal

*D. Vincent*  
**Mr. D. Vincent**  
Purchase Committee Convener

*V.M. Arul Dhas*  
**Mr. V.M.Arul Dhas**  
Audit Committee Convener

*P.T. Justin Thiraviam*  
**Mr.P.T.Justin Thiraviam**  
Office Superintendent

*G. Antony Miraculas*  
**Dr.G.Antony Miraculas**  
HoD/ Mechanical

*S. Caroline*  
11/7/24.  
**Dr.S.Caroline**  
HoD/ ECE

**Approval requested for items given by HoDs – Annexure 1**  
 Department of Civil Engineering

**Lab Equipment**

Name of the Lab	Description of Items	Specification	Quantity	Approx. Cost / unit (Rs.)	Approx. Total Cost (Rs)
Concrete and Highway Engineering Laboratory	Sieve set	(IS sieve 40mm, 31.5mm, 25mm, 20mm, 16mm, 12.5mm, 10mm & 6.3mm, 2.36mm and 90 micron)	1	5,000	5,000
	Beam mould	Dimensions: 100 mm x 100mm x 500 mm	2	3,800	7,600
	Drilling Machine	Capacity Steel: 13mm (1/2 inch) Drilling Diameter (in mm) : 13 mm Brand: Hitachi	1	10,000	10,000
	Concrete Cylinder Mould	150 mm x 300 mm	10	2400	24,000
	Electronic weight Machine	Honda-digi 100kg/10g	1	13,000	13,000
	Specific Gravity Flask (Le Chatelier)	The neck is graduated from 18 to 24ml in 0.1ml	5	1,000	5,000
Structural Engineering Lab	Simply supports	High grade steel	1set	32000	32000
	Cutting Machine		1	5000	5000
	Grease gun	1kg	1	3000	3000
	Oil Cane	250ml	2	400	800
	Adjustable spanner	johnpandari	2	600	1200
	Cutting player	johnpandari	2	400	800
	Hammer	1.5lb	1	350	350
Civil Computer Lab	Computer	Lenovo Intel i5 with 8 GB RAM , 512 Gb SSD, 21.5" LED Monitor, Key board, Mouse	5	55,000	2,75,000
	UPS batteries	12V 65AH SMF	10	6,272	62,720
	STAAD.Pro (software)	Bentley Academic - Classroom Subscription License for 3 years with FREE Student Server	10 users	64,900	6,49,000
	ANSYS (Software)	Ansys Academic products for India	10 users	8500	85000
Fluid Machinery Lab	Reciprocating Pump	0.5 HP motor, SS unit	1	70,000	70,000
	U Tube Mano Meter		2	6000	12000
Soil Mechanics Laboratory	Weighing Balance (ordinary)	10kg capacity	1	7500	7500

	Sieve	600 micron	2 nos.	750	1500
	Sieve	425 micron	2 nos.	700	1400
	Sieve set	4.75mm, 2.36mm, 1.18mm, 600mic., 300mic., 150mic., 75mic., Lid & pan	1no	6000	6000
	Pyconometer	Standard size	4 nos.	700	2800
	Mechanical stirrer with dispersion cup	4000rpm speed, 2lit. dispersion cup	1nos.	10000	10000
	Relative density Apparatus Dial gauge	-	1nos.	5000	5000
	Stop watch	Racer	2nos	550	1100
Strength of Materials Lab	Digital Compression Testing Machine	100 – 200 Ton	1	3,00,000/-	3,00,000
<b>TOTAL</b>					<b>15,96,770</b>

### Research & Development

Sl.No	Description of Items	Specification	Quant ity	Approx. Cost / unit (Rs.)	Approx. Total Cost (Rs)
1	Crack width measuring microscope	Magnification x 40 Measuring range – 4mm Division: 0.02 mm Weight including battery: 560 g Box size : 150mm x 100 x 50 mm deep	1	19,500	19,500
2	Strain Gauge	Electrical Resistivity	30	400	12,000
3	Dial Gauge	0 – 20 mm	2	12,000	24,000
4	Length Comparator	Dial Gauge Reading – 0.002mm x 5mm	1	11,500	11,500
5	High Temperature Furnace	Max Temperature (0 C): 1400 power 1.5 -7.5 kw Voltage : 220 V, Single phase, 50 Hz, AC Supply	1	1,27,000	1,27,000
6	Hammer And Guide Pipe Assembly	Free fall: 75cmColor: Black	1	15,000	15,000
7	Hydraulic Jack for Cyclic Load	1000 Ton	1	50,000	50,000
8	Rapid Chloride Permeability Apparatus	Model Name/Number: RCPT Advance and Manual/Auto Usage/Application: Industrial Brand: RBK Engg works Channel: 4 Cell Automatic and Manual	1	4,50,000	4,50,000
<b>TOTAL</b>					<b>7,09,000</b>

Lab Equipment

Department of Computer Science Engineering

Sl. No	Description of Items	Specification	Quantity	Approx. Cost / unit (Rs.)	Approx. Total Cost (Rs)	Justification
1	Computers	Corporate PC : Lenovo Core i7 12 <sup>th</sup> Gen./ 8GB / 512GB SSD / 21.5" FHD Monitor, KB, Mouse	25	60,000/-	15,00,000/	To replace systems in Innovative Computing lab. Not able to install most of the software required for curriculum
2	Projector	Epson make with screen + two screens	2	40,000/-	1,00,000/	For M.E Classroom & Lab III Two screens (III and I M.E)
3	UPS	Numeric 10 KVA	1	1,30,000/-	1,30,000/	Existing 25 UPS fails frequently.
<b>TOTAL</b>					<b>17,30,000</b>	

#### Lab Consumables

Sl. No	Description of Items	Specification	Quantity	Approx. Cost / unit (Rs.)	Approx. Total Cost (Rs)	Justification
1	CMOS Battery	CR2032	100	10	1000	Computers
2	UTP Connector	CAT6- D-Link	100	5	500	Network Maintenance
3	HDMI Cables	MX, 20Meters	5	1200	6000	Classroom Projectors
4	Refill Ink for Epson Inktank Printer	774	10	700	7000	printers available in Labs, HOD room & Dean office.
5	Yellow Cloth	Cleaning cloth	20M	50	1000	Cleaning
6	Glass Cleaner	Colin	10	50	500	Cleaning
7	Isopropyl	IPA	4	50	200	Cleaning
<b>TOTAL</b>					<b>16,200</b>	

#### Research & Development

Sl. No	Description of Items	Specification	Quantity	Approx. Cost / unit (Rs.)	Approx. Total Cost (Rs)	Justification
1	Computers	Corporate PC : Lenovo Core i7 12 <sup>th</sup> Gen./ 8GB / 512GB SSD / 21.5" FHD Monitor, KB, Mouse	5	60,000/-	3,00,000/-	Research Lab
2	Ether Switch	D-Link DGS 1210-28	1	15,000/-	15,000/-	

3	Networking	Cables, Connectors, networking & others	--	16,000/-	16,000/-
4	Printer with Scanner	EPSON M200	1	16,000/-	16,000/-
<b>TOTAL</b>					<b>3,47,000</b>

### Repairs & Maintenance

Sl. No	Description	Origin of defect	Cost for repair (Rs)	List of Agencies if applicable
1	Repairs of SMPS, Monitor & printers	Breakdown maintenance	20,000/-	Valli Electronics, Jeni Electronics, Quality Electronics.
2	Computer Spares (Motherboard, HDD, SMPS, KB, Mouse, MB, Monitors, Adapters & CAT6 Cables)	Breakdown maintenance	50,000/-	Computer Hardware suppliers
3	RAM Upgrade for GC Lab	Require Upgrade	60,000/-	
4	Electrical, building maintenance	General maintenance	1,97,198	-
<b>TOTAL</b>				<b>3,27,198</b>

### Department of Electrical and Electronics Engineering

#### Lab Equipment

Name of the Lab	Description of Items	Specification	Quantity	Approx. Cost / unit (Rs.)	Approx. Total Cost (Rs)	Justification
Power Electronics Lab	DSP Kit	Micro-28377D	1	88,000	88,000	ME-Power Electronics & Drives
Electric Vehicle lab	<b>Sound system</b>					To conduct electrical vehicle training
	Amplifier	250 SSA	1	15000	15000	
	Speaker	50 Watts	4	4000	4000	
	Wire mike	-	1	3000	3000	
	Wireless mike	-	1	3000	3000	
	Collar mike	-	1	6000	6000	
	Wiring and installation	-	-	5000	5000	
	<b>Three wheeler vehicle battery charger</b>	-	1	4000	4000	
Research / PG Simulation lab	Battery	12V / 65AH / Quanta / SMF	20	6000.00	120000.00	Existing batteries are weak and cannot be used further
Electrical Workshop	Digital IC Trainer Kit	-	2	20,000.00	40,000.00	To do Experiment.

Simulation / Language Lab	Computer	12th Generation, Intel Core i7 Processor, 16 GB RAM, 512 SSD	15	65,000.00	9,75,000	Existing computers are old (2010 Purchase) these do not support new software
<b>TOTAL</b>					<b>12,63,000</b>	

### Lab Consumables

Name of the lab	Description of items needed, specifying brand & quantity	Rate	Quantity	Total (Rs.)	Remarks
Control and Instrumentation Laboratory	Soldering lead	60.00	1	60.00	Required for Digital Logic Circuits and LIC laboratory in 2024-2025 even semester
	Battery (9V)	20.00	10	200.00	
	IC 7400,7402,7404,7408,7432,	15.00	Each 25	1875.00	
	IC 7411,7486, 7410	20.00	Each 25	1500.00	
	IC 7476, 7474	50.00	Each 15	1500.00	
	LM 741	25	25	625	
	Resistor	1.00	100	100	
	Single strand wire coil 1/22	500	1	500	
Electrical Workshop	Digital IC - 7400,7402,7404,7408,7432,7480	20.00	25 each	3,000.00	To do experiments
	Soldering Lead	800.00	1 Box	800.00	
	Soldering Paste	250.00	5	250.00	
Electric Vehicle lab	Battery assembling base	5	200	1000	To do experiments
	HDMI cable (3 meter)	2500	1	2500	
	Lithium Iron Cell (3.7V)	70	100	7000	
	Soldering iron(25W)	350	1	350	
	Soldering iron(50W)	500	1	500	
	Soldering lead (250 grams)	400	1	400	
	Soldering paste	200	1	200	
	Battery connection welding strip	20	100	2000	
Soldering stand	250	2	500		
Power Electronics Lab	Resistors	1	100 Nos. different ranges	100	To do experiments
	BJT- BC107 & BC 547	12	10	120	
	MOSFET - IRF540	20	5	100	
	PHOTO TRANSISTOR	5	10	50	
	DIODE - 1N4007	3	10	30	
	Zener diode - Iz-9.1 V	3	10	30	
	Capacitors	2	50	100	
	9V Cell	25	20	500	
<b>TOTAL</b>				<b>25,890</b>	

**Repairs & Maintenance**

Name of the Lab	Description	Cost for the repair (Rs)
Control and Instrumentation Laboratory	CRO, Digital trainer, Bourdon tube	7000
Power Electronics Lab	SCR switching characteristics - No current and voltage changes	5000
Research / PG Simulation lab	UPS 5 KVA (2 Nos.), Projector cable (VGA & HDMI)	22,000
Electrical Workshop	CRO - 2 Nos.	6000
Simulation / Language Lab	UPS 25 KVA, UPS 10 KVA (AMC)	42,000
<b>TOTAL</b>		<b>82,000</b>

**Research & Development**

Sl. No	Description of Items	Quantity	Approx. Cost / unit (Rs.)	Approx. Total Cost (Rs)
1	Raspberry Pi Pico	10	600	6000
2	Arduino	10	600	6000
3	Raspberry Pi 8GB kit	5	10000	50,000
4	ESP8266	10	400	4000
5	STM 32	10	300	3000
6	ESP32 with WiFi module	5	500	1000
7	Sensors	Each 10	100	3000
8	Displays (LCD. 7 segment display)	Each 5	150	1500
9	Mini bread board	20	40	800
10	Single relay board	20	45	900
<b>TOTAL</b>				<b>76,200</b>

**Department of Electronics and Communication Engineering****List of Equipment**

Name of the Lab	Description of Items	Specification	Quantity	Approx. Cost / unit (Rs.)	Approx. Total Cost (Rs)
Embedded Lab	AC	AC Carrier 1.5 Ton	4	45,000.00	1,80,000
	PPT Presenter	PPT Presenter slide changer controller	1	1500	1500
Electronics Lab	CRO	60MHz	3	30,000.00	90,000
	FG	20MHz	3	15,000.00	45,000
	DC RPS	DUAL	3	10,000.00	30,000
	Computer	Intel i5 with 8GB RAM 1TB HDD, 18.5" LED Monitor, Key board, Mouse	3	70,000.00	2,10,000
VLSI Lab	Printer	Laser	1	15000	15,000

Microprocessor Lab	Microprocessor 8085	8085	5	8000	40,000
	Microprocessor 8086	8086	5	8000	40,000
	Computer	Intel i5 with 8 GB RAM 1TB HDD, 18.5' LED monitor, Keyboard, mouse	5	70,000	3,50,000
IC Lab	DSO	70 MHz	4	40,000	1,60,000
<b>TOTAL</b>					<b>11,61,500</b>

#### Consumables

Name of the Lab	Description of Items	Specification	Quantity	Approx. Cost / unit (Rs.)	Approx. Total Cost (Rs)
Embedded Lab	UI SB Cable	D type mini	3	350	1050
	HDMI Cable	-	3	600	1800
	CMOS Battery	3V	30	20	600
	VGA to mini HDMI Cable with converter	-	3	650	1950
	Arduino uno data cable	USB 2.0	3	750	2250
	Power Adapter	5V 2A	3	1100	3300
Electronics Lab	Resistor, Capacitor, Transistor, IC's	Different Values	Each 50 Nos	-	15,000
	IC & Transistor Data Manual	-	02	-	4,000
IC Lab	Resistor, IC, Capacitor	Different Values	Each 50 Nos	-	17,000
<b>TOTAL</b>					<b>46,950</b>

#### Repairs & Maintenance

Sl. No	Description	Origin of defect	Cost for the repair (Rs)
1	Projector (in class room)	Not working	5,000
2	Microprocessor-8086	Frequent usage, Need servicing	7000
3	Microprocessor-8085	Frequent usage, Need servicing	5000
4	Microcontroller -8051	Frequent usage, Need servicing	10,000
5	Interfacing kit	Frequent usage, Need servicing	3000
6	AC (2Ton X 8)	AMC	24,000
7	Klystron Power supply	Need servicing	2000
8	Digital Link Kit	Need servicing	1000

9	VSWR meter	Need servicing	3000
10	CRO ( 8 nos)	Knob problem	16000
11	Hydraulic door closer	Not working	1200
12	Computer Table Service	Broken	18,000
13	FG (8 nos)	Not working	16,000
14	Computer Chair (3nos)	Broken	3000
15	Power supply (2 nos)	Partially not working	2,000
<b>TOTAL</b>			<b>1,16,200</b>

Department of Mechanical Engineering

**Lab Equipment & Consumables**

Sl. No	Description of Items	Specification	Quantity	Approx. Cost / unit (Rs.)	Approx. Total Cost (Rs)
1.	Printer	Ink Tank Printer	1	16,000	16,000
2.	8085 Microprocessor	Intel 8085A CPU @ 6.144 MHz Clock speed.	2	10000	20000
3.	Welding electrode Holder	Copper Welding Electrode Holder 1000 Amps	4	1000	4000
4.	Chipping Hammer	-	5	400	2000
5.	Welding Holder cable	35sqmm	15m	200	3000
6.	Welding rod	300mm	2	3500	7000
7.	Safety Nylon gloves	-	10	200	2000
8.	Cotton gloves	-	10	200	2000
9.	Ring spanner	-	1	300	300
10.	Computerized Pin-on-Disc wear apparatus	Dry and wet	1	450000	450000
11.	Computer	4 GB RAM, i5 Processor, 1 TB HDD	1	45000	45000
12.	LAN Tester	Logitech	1	1500	1500
13.	Crimping Tool	Logitech	1	2000	2000
14.	External DVD drive	Logitech	1	2000	2000
<b>TOTAL</b>					<b>5,56,800</b>

**Repairs & Maintenance**

Sl. No	Description	Origin of defect	Cost for the repair (Rs)
1	Projector (in class room)	Not working	5,000
2	Programmable Logic circuit (PLC)	Communication cable and board jammed	25000
3	Portable drilling machine	Coil winding defect	1000

4	Angle grinder	Coil winding defect	1000
5	Industrial fan	Coil defect	3000
6	CNC service	Regular Maintenance	40,000
7	Computer Maintenance	Mother board, SMPS etc	10,000
8	Thermal Lab Maintenance	Engine, Boiler and Dynamometer	1,89,000
9	Dynamics Lab	Sensors and motors	40,000
<b>TOTAL</b>			<b>3,14,000</b>

**Department of Information Technology**

**Research & Development**

Sl. No	Description of Items	Quantity	Approx. Cost / unit (Rs.)	Approx. Total Cost (Rs)	Justification	Remarks
1	Raspberry Pi	5	5000	25000	Smart Agriculture Smart Waste Management	IoT Applications
2	Arduino Microcontroller	5	2000	10000		
3	Water Level Sensor	2	200	400		
4	Gas Leakage Sensor	2	200	400		
5	Humidity and Temperature Sensor	2	500	1000	Smart Agriculture Green Building Technology	
6	Vitamin Sensor	6	8000	48000	Vitamin Analysis	Medical Data Analytics
7	EEG-Based BCI	2	20000	40000	DNN for mental health analysis (psychiatry)	
8	AI Edge device - Google coral	2	15000	30000		
9	GPU System - I5 processor, 1 TB SSD HDD, 16 GB RAM, 8GB GPU	4	50000	200000	ESXI server installation	Virtualization lab
<b>TOTAL</b>				<b>3,54,800</b>		

**Lab Consumables**

Sl. No	Description of Items	Specification	Quantity	Approx. Cost / unit (Rs.)	Approx. Total Cost (Rs)
1	Spare for computers	USB Mouse	10	300	3000
2	Spare for computers	SMPS	10	2500	25000
3	Monitor	18.5" Monitor	5	6000	30000
<b>TOTAL</b>					<b>58000</b>

**Equipment**

Sl. No	Description of Items	Specification	Quantity	Approx. Cost / unit (Rs.)	Approx. Total Cost (Rs)	Justification
1	Printer	HP/ Cannon	1	30000	30000	IT Computer Lab
2	LCD Projector	Epson	1	30000	30000	II year class room projector not working.

						Service man told service not possible
<b>TOTAL</b>						<b>60,000</b>

### Repairs & Maintenance

Sl. No	Description	Origin of defect	Cost for the repair (Rs)	List of Agencies	Remarks
1	SMPS Service	Not working	3000	Jini Electronics	IT Lab
2	Electrical and False ceiling Maintenance	Falling down from the fall ceiling 5 years back	5000		IT Department
3	Monitor Service	Not working	10000		
<b>TOTAL</b>				<b>18,000</b>	

### Department of Artificial Intelligence and Data Science

#### Lab Equipment

Sl. No	Description of Items	Specification	Quantity	Approx. Cost / unit (Rs.)	Approx. Total Cost (Rs)
1	Desktop Computers	Lenovo workstation - Intel Core i9 - 12900K Vpro processor, 32 gb ddr5 ram, 512 gb ssd, NVIDIA RTX A4000 - 16 GB DDR6 Graphics card, keyboard, optical mouse, 21.5" FHD Monitor, 3 years warranty.	2	2,00,000	4,00,000
2	WI-FI	D-LINK	1	12,000	12,000
3	AC	Carrier 2.0 Ton	1	50,000	50,000
4	HDMI Cable	HDMI to HDMI Connector	1	300	300
5	Printer	HP Printer	1	24000	24000
<b>TOTAL</b>					<b>4,86,300</b>

#### Research & Development

Sl. No	Description of Items	Specification	Quantity	Approx. Cost / unit (Rs.)	Approx. Total Cost (Rs)	Justification
1	Micro Controller (Arduino)	ARDUINO NANO Micro Controller	4	500	2000	Research Product Development
2	IoT	IOT trainer kit with Raspberry Pi & Arduino	1	29453	29453	
3	Drone	Drone Kit with WIFI and Camera	1	25,000	25,000	
4	Oculus Link		3	6,500	19,500	Virtual Reality

		Virtual Reality Headset Cable for Quest and Gaming PC				
<b>TOTAL</b>						<b>75,953</b>

Department of Master of Business Administration

**Lab Equipment**

Sl. No	Description of Items	Specification	Quantity	Approx. Cost / unit (Rs.)	Approx. Total Cost (Rs)	
1	Desktop Computer	i5,8 GB RAM,521 GB SSD,19.5" Monitor	5	50,000	2,50,000	
2	Ethernet Switch	D-Link 28 P	2	12,500	25,000	
3	Network Crimping tool	D-Link	1	2,500	2,500	
4	LAN Tester	D-Link	1	1,000	1,000	
5	Data Analytics Software	Statistical Package for Social Sciences (SPSS) with updated version.	10	2,50,000	1,25,000	
6	UPS Battery	Quanta SMF	20	8,000	1,60,000	
<b>TOTAL</b>						<b>5,63,500</b>

**Lab Consumables**

Sl. No	Description of Items	Specification	Quantity	Approx. Cost / unit (Rs.)	Approx. Total Cost (Rs)
1	RJ45 Connector	D-Link	1 Box	1,000	1,000
2	Network Cable	D-Link	2 Box	7,000	14,000
<b>TOTAL</b>					<b>15,000</b>

**Repairs & Maintenance**

Sl. No	Description	Origin of defect	Cost for the repair (Rs)	List of Agencies if applicable
1	HP Laser jet 2015 printer	Cartridge	5,000	Logon, Ripples
2	HP Laser Jet1020 plus	Cartridge	5,000	Logon, Ripples
3	General maintenance of doors	Poor functioning	30,000	
<b>TOTAL</b>			<b>40,000</b>	

Department of Master of Computer Applications

**Lab Equipment**

Sl. No	Description of Items	Specification	Quantity	Approx. Cost / unit (Rs.)	Approx. Total Cost (Rs)
1	Air Conditioner	2 Ton	1	60,000	60,000
2	UPS	20 kVA	1	3,00,000	3,00,000
3	UPS Battery	Quanta SMF	30	6,500	1,95,000

4	IoT Trainer Kit	IoT kit with Raspberry PI, Arduino, Node MCU and sensors	10	2,500	25,000
5	Wi-Fi	D - Link	2	12,000	24,000
6	Projector	Epson EB-E01 LED projector	1	42,000	42,000
7	Ceiling mount kit	-	1	1,500	1,500
8	HDMI Cable	10 metres	2	1,500	3,000
9	Presenter	Professional Presenter	1	10,000	10,000
10	Audio System	Audio with mic and amplifier	1	15,000	15,000
<b>TOTAL</b>					<b>6,75,500</b>

#### Lab Consumables

Sl. No	Description of Items	Specification	Quantity	Approx. Cost / unit (Rs.)	Approx. Total Cost (Rs)
1	IoT things	Sensors, connecting wires, Breadboard	-	10,000	10,000
<b>TOTAL</b>					<b>10,000</b>

#### Department of Humanities & Sciences – Physics (Consumables)

Sl. No	Description of Items	Specification	Quantity	Approx. Cost / unit (Rs.)	Approx. Total Cost (Rs.)
1	Vernier Caliper	I ME type 6"	12 nos	340	4080
2	Screw Gauge	25 mm x 1	6 nos	350	2100
3	Meter Scale	1 m Long wooden	4 nos	180	720
4	Cutting plier	8 inch	1 no	200	200
5	Rubber tube	8mm dia	25 mts	34	850
6	Digital stop clock		5 nos	1250	6250
7	Paraffin Wax		500 gram	480	480
8	Coconut oil		1 litre	200	200
9	Numerical Aperture Kit	PICO	1 no	6800	6800
10	Laser Grating stand	For laser experiment	3 nos	1000	3000
11	Electric Heater	Hot Plate - INFRA	3 nos	3240	9720
12	Thermometer	Red alcohol 110°C	20 nos	130	2600
13	Beaker	250 ml Borosilicate	6 nos	80	480
14	Brass wire	0.7mm for torsional pendulum experiment	50 mts	20	1000
15	Cardboard	Round 10 cm Dia	6 nos	30	180
<b>TOTAL</b>					<b>38,660</b>

#### Repairs & Maintenance

Sl. No	Description	Origin of defect	Cost for the repair (Rs)
1	Spectrometer – 6 nos	Yearly Maintenance	1200
2	Travelling Microscope –12 nos		2700

3	Stop Clock – 6 nos	When used by students	1800
4	Band Gap Kit - 3 nos		6900
5	Heating Mantle – 3 nos	When used by students	3000
6	Optical bench – Laser –4 nos		400
7	Laser Source – 3 nos		4500
8	Electric Heater – 3 nos		3000
9	Numerical Aperture Kit-2 nos		2000
10	Switch boards		-
<b>TOTAL</b>			<b>Rs. 25,500</b>

**Department of Humanities & Sciences – Chemistry (Consumables)**

Sl.No	Description of Items	Specification	Quantity	Approx. Cost / unit (Rs.)	Approx. Total Cost (Rs)
1.	Burette	Borosil	60 no	250/1 no	15000
2.	Conical Flask	Borosil	30 no	150/1 no	4500
3.	Beaker (100 ml)	Borosil	30 nos	50/1 no	1500
4.	Pipette	Borosil	30 nos	80/1 no	2400
5.	Iodine Flask	Borosil	30 nos	200/1 no	6000
6.	pH Electrode	Deepvision	2 nos	1000/1no	2000
7.	Dropper with teat	Borosil	30 nos	20/1 no	600
8.	Ammonia solution	Nice	10 L	1,000/5 L	2000
9.	Potassium iodide	Nice	5 kg	6,000/500 gm	60000
10.	Copper Sulphate	Nice	1 Kg	500/500 gm	1000
11.	Ethyl alcohol	Nice	4 litre	300/500 ml	2400
12.	Sodium hydroxide	Nice	5 Kg	2500/5 kg	2500
13.	Gloves	Rubber	2 set	300/1 set	600
14.	Sodium thio sulphate	Nice	4 kg	400/500 gm	3200
15.	EDTA	Nice	4 Kg	900/500 gm	7200
16.	Sulphuric acid	Nice	5 L	1700/5 L	1700
17.	Hydrochloric acid	Nice	5 L	1000/ 5 L	1000
18.	Indigo Carmine	Nice	25 gm	400/ 25 gm	400
<b>TOTAL</b>					<b>1,14,000</b>

**Repairs & Maintenance**

Description	Origin of defect	Cost for the repair (Rs)
Potentiometer	Yearly servicing	10000
pH meter	Yearly servicing	10000
Gas line servicing	Yearly servicing	5000
<b>TOTAL</b>		<b>25000</b>

**Office of the Controller of Examinations**

Sl No.	Purchased	Amount (₹)
1	Enova Software Renewal	3,50,000
2	Firewall Renewal	7,000
3	Internet Subscription	55,200

4	Stationery items	5,48,000
5	General maintenance	50,000
6	UPS, copier machines, printers, computers and other equipment	50,000
7	Mobile Prepaid connection	1,500
<b>TOTAL</b>		<b>10,61,700</b>

**Training and Placement Cell**

Particulars	Approximate Cost (Rs.)
External training for students	4,00,000
ON and OFF Campus expenses	9,00,000
HR – Hospitality, gifts, mementos	2,00,000
Stationery Consumables	6,800
Desk top Computer with good configuration	55,000
Laptop with good configuration	50,000
Maintenance	10,000
<b>TOTAL</b>	<b>16,21,800</b>

**Library**

Items Purchase	Amount (Rs.)
Library books	3,50,000
E journal renewal	16,00,000
Print journal	1,00,000
Institution membership – DELNET & NList	23,000
Newspaper	50,000
<b>TOTAL</b>	<b>21,23,000</b>

**College Office**

Sl. No.	Item Purchase	Amount (Rs.)
1	Stationery	1,73,683
2	Registers, Covers, Forms	1,94,200
3	Record notes, Diary, calendar, Handbook, ID card materials	18,25,000
<b>TOTAL</b>		<b>21,92,883</b>

**EXAM CELL – Internal Examinations**

Sl. No.	Description of Items	Specification	Service & Maintenance	Amount (Rs.)
1	Hard Disk	128 GB SSD	-	1500
2	Photocopier Machine	-	Periodic maintenance	25,000
3	Internal Answer booklet 20 pages	69,500 X Rs.7	-	4,86,500
4	IAT Drawing sheet booklet 3 sheets	1500 X Rs.10	-	15,000
5	COPIER Paper A4 size	450 pack X Rs.260	-	1,17,000
6	Toner Black and White	Copier, printer machine		18,600
7	Stationery items			2,430
<b>TOTAL</b>				<b>6,66,030</b>