



**Govt. of Bihar**  
**MUZAFFARPUR INSTITUTE OF TECHNOLOGY,**  
**MUZAFFARPUR, BIHAR – 842003**

(Under the department of Science & Technology, Bihar, Patna)  
website: [www.mitmuzaffarpur.org](http://www.mitmuzaffarpur.org) / e-mail:- [principal@mitmuzaffarpur.org](mailto:principal@mitmuzaffarpur.org)

Tender Notice No.: 64/

Dated: 08/05/2018

Sealed tenders (typed copy only) are invited for the purchase of Machine & Equipments, Furniture, Books etc. at temporary campus of **Government Engineering College, Vaishali**. The tenders should be submitted at M.I.T., Muzaffarpur within 15 days from the date of publication of advertisement before 4:30 PM on any working day. Technical and Financial bid should be submitted separately in a sealed envelope. Both these sealed envelope should be kept inside one big sealed envelope. The rate quoted should include GST and all other taxes applicable. The envelope should be sent by Registered Post/Speed Post/Courier to **Principal, Muzaffarpur Institute of Technology, Muzaffarpur – 842003 (Bihar)**. The quoted price should include the cost of installation/demonstration and manual of the equipments at **Government Engineering College, Vaishali**. The payment will be made only after receipt of the items in good condition, successful installation & demonstration as per the norms/guidelines.

The detailed specifications of the required items, requirements for Technical bid & Financial bid and tender notice can be downloaded from the college website [www.mitmuzaffarpur.org](http://www.mitmuzaffarpur.org).

NOTE:-

- (i) In case the last date happens to be holiday, the sealed tender will be received on the very next working day.
- (ii) The rate should be quoted for each item of the package but the comparison will be based on the total price of package only. If the rate of any item in any package is missing, then the tender will not be considered for comparison.
- (iii) Bidder can apply even for one package.
- (iv) Package wise item can be downloaded from the college website.
- (v) The Principal, M.I.T., Muzaffarpur reserves the right to accept or reject the tender or any part of the tender without assigning any reason.

The dates of purchase committee meeting will be displayed on college website [www.mitmuzaffarpur.org](http://www.mitmuzaffarpur.org). The supplier or their representative may present themselves in the meeting if they wish so, but no separate intimation will be given for this purpose.

**Sd/-**  
**Principal**  
**M.I.T., Muzaffarpur**  
**-Cum-**  
**Mentor**  
**Govt. Engg. College, Vaishali**

Department of Science & Technology

# **Government Engineering College, Vaishali**

Tender Document

For

Supply of Laboratory instruments, machines, furniture, books etc.

**Principal  
M.I.T. Muzaffarpur  
Cum  
Mentor  
Government Engineering College, Vaishali**

# IMPORTANT INFORMATION

1. Non-Refundable Tender Cost:

Rs. 1000/- Only through demand draft from a Nationalized Bank, drawn in favour of “**Principal, Muzaffarpur Institute of Technology, Muzaffarpur**” Payable at “**Muzaffarpur**”.

2. EMD:

Rs.10000/- (Ten thousand) in the form of demand Draft from a nationalized bank in favour of “**Principal, Muzaffarpur Institute of Technology, Muzaffarpur**” Payable at “**Muzaffarpur**”.

3. Last Date of Submission of Tender Documents:

Ten days on or before from the date of publication of advertisement in the paper in the office of the **Principal, Muzaffarpur Institute of Technology, Muzaffarpur**.

4. Opening date of Tender will be uploaded on the institute website ([www.mitmuzaffarpur.org](http://www.mitmuzaffarpur.org)).

5. Address for Correspondence and Clarification:

Principal  
M.I.T. Muzaffarpur  
Cum  
Mentor  
Government Engineering College, Vaishali  
E-Mail. –principal@mitmuzaffarpur.org

## Part. I- Technical Bid

### A. PLEASE NOTE THE FOLLOWING TERMS AND CONDITIONS FOR INSTRUMENTS, MACHINES, GLASSWARE, FURNITURE, GEN-SET etc.

1. The bidder need to submit DD of **Rs. 10,000/-** (Ten Thousand only) in favour of “**Principal Muzaffarpur Institute of Technology, Muzaffarpur**” Payable at **Muzaffarpur** alongwith the Technical Bid otherwise their tender will be rejected.
2. The tender will be opened on scheduled date and time as to be notified on the college website and the bidder or their authorized representative may be present during opening of the tender. Absence of bidder or their authorized representatives will not be a cause for rejection or non-validation of tender process.
3. Tender received after due date and time will not be entertained under any circumstances.
4. Only Original Equipment Manufacturer/ Authorized Dealer can participate: Name of the manufacturer/Mark/Brand should be mentioned in each item or equipment.
5. Similar experience of supplying instruments since 02 years at renowned polytechnics/Engg. College/IITs/ NITs/Universities of repute/ Govt. depts./ PSUS, abroad will be preferred
6. The tender must include complete detailed specifications supported by printed Literature of the equipment.
7. The rate quoted should be F.O.R to destination inclusive of all taxes, installation, commissioning and successful demonstration of the equipments supplied (wherever applicable)
8. After installation and commissioning the equipment/ software the supplier is required to impart necessary training, if any, then only the agreed payment will be released.
9. Any request for alternation / correction in the specification and price in the tender document will not be entertained, once submitted.
10. Payment will be released only after delivery, verification of quality, specification and successful installation, demonstration and training on equipments and software at institute.
11. If any kind of defect in equipment/ machine or deviation from the specification are detected and reported, the supplier should replace or rectify the defect immediately.
12. The **Government Engineering College, Vaishali** reserves the rights to select entire or the part items of the particular package on recommendation of the purchase committee.
13. The rate quoted in the tender should be valid for One year from the date of opening of the tender. The price will be same without variation of any kind.
14. The **Government Engineering College, Vaishali** reserves the rights to accept the lowest or any tender and also of rejecting all or any tender without assigning any reason for the same.
15. Request for the supply of any substitute for any items or equipment other than mentioned in the tender, will not be entertained.

16. The entire dispute with regard to the contract of purchase of equipment etc. will be subject to Legal jurisdiction of Vaishali only.
17. Manufacturer of the equipment will be required to furnish a certificate to the effect that they are manufacturer of such and such make and whereas Dealers will have to furnish a certificate issued by the manufacture certifying that M/S such & such is the dealer under brand name of equipment. Without this certificate the tender will not be accepted.
18. The company should have the following conditions:
  - I. Audit balance sheet for at least last two financial years and the turn over should be at least thrice the total quoted price and there should be sufficient annual turnover.
  - II. Income tax return in name of organization/firm for last two Financial Assessment years.
  - III. Company PAN No.
  - IV. Copy of GST Registration Certificate & Latest Paid Challan.
  - V. Copy of authorization letter from original manufacturers.
  - VI. Technical Literatures and specifications of all the products being quoted.
  - VII. A judicial affidavit regarding that the firm is not blacklisted by state Government/Central Government.
19. The tender should bear all the transportation & insurance risk till delivery point.
20. The tender should submit Manufacture issued Dealership certificate if he is dealer and in case Manufacturer himself is bidding he should enclose proof of being manufacturer.
21. The tender will have to quote tender in serial order as in the tender Document without modifying/ tempering the specification mentioned therein, however for sake of clarity further add-on specification, if any can be mentioned in separate column.
22. The **Government Engineering College, Vaishali** will have right to add/ alter any terms and conditions as per existing financial/ treasury rules and provisions applicable in the Bihar state if it has not been include/ addressed in the terms and conditions
23. Materials having ISI/ISQ/Engg. Marks will be accepted.
24. Tender must quote BOQ no./ Money Receipt No. at the top of the Envelope.
25. Purchase committee reserve the right to change the terms & condition for Furniture, General office/ hostel use items, generator, computers, water purifier, Xerox Machine, etc. if situation so arised.

***B. Terms and Condition for submitting Tender for Books and Journals***

1. Only Publisher or Distributor Dealer or Registered Supplier can quote.
2. If authorised distributor or dealer is quoting, then Publisher authorization Certificate is required.
3. No. advance payment will be made; payment will be made only after proper Verification of the required items.
4. Delivery of all items will be accepted at destination.

5. Firm must attach copy of PAN No. GOC membership copy, registration Certificate, Income Tax clearance certificate, Sales Tax/VAT/GST certificate.
6. Firm must have the experience of supplying books to technical institutes for past three years.
7. Maximum library discount should be offered but should not be less than approved by GOC.
8. Current conversion rates as per approved rate GOC must be applied
9. Packing Forwarding, Freight, free of cost up to library
10. Payment after delivery of goods.
11. Books should be of latest edition only.
12. Any loss or damage caused to the books/documents during transit has to be replaced within a reasonable time.
13. It is not necessary that all the books mentioned in list will be purchased, some books may be included if required by the institute.
14. Postal or courier delay will not be considered.
15. All Disputes regarding this apply will be subject to site Jurisdiction.
16. The Undersigned reserve the right to reject any or all the tenders without assigning any reason.

**Part- II Financial Bid: It must contain the following:**

Rates per unit must be inclusive of Freight, Taxes and duties, and Transportation charge etc.

- i. The bidder is required to fill all the two parts of the documents in the separate sealed Envelopes, which should be super, subscribe as “TECHNICAL BID”- For supply of laboratory furniture, instruments machines, glassware etc. and “FINANCIAL BID” – for supply of laboratory furniture, Instruments, machines, glassware etc. The two envelop should be kept in an another separate sealed envelope superscript as “**Tender for supply of laboratory furniture, instruments, machines, glassware furniture, laboratory furniture, Gen-set etc.**” on the top
- ii. In the financial bid for Books/Price list/ Catalogue should be enclosed for the verification of price. Overall discount for the package of books should be mentioned.

The financial bid should be addressed to

Principal  
M.I.T. Muzaffarpur  
Cum  
Mentor  
Government Engineering College, Vaishali

All the envelopes must show the name of the supplier, address and contact numbers clearly.

**Purchase/ Rate Contract**

**TENDER FORM**

1	Name of Bidder				
2	Name & Designation of Authorized Signatory				
3	Registered Office Address				
4	Year of Establishment				
5	Type of Firm	Public Limited	Private Limited	Partnership	Proprietary
	Put Tick ( ) Mark				
6	Telephone No (s) Mobile				
7	Website				
8	Fax No.				
9	Email Address				

4. The Tender fee amounting to Rs. 1000/- (Rupees five hundred only) has been deposited vide DD No..... Dated.....

5. we agree to abide by all the conditions mentioned in this Tender Document issued by the Tending authority and also the further condition of the said Tender Notice given in the attached sheets (all the pages of which have been signed by us in token of acceptance of the terms mentioned therein)

6. Reproduced/re-word- processed formats or own tender for the price quotations will disqualify the tender.

7. Details of Earnest money deposited in respect of various schedule

Sl.	Instrument of Earnest money deposited	Cheque/DD Number	Dated
1.	Cash/FD/DD/Banker's		

8. Tax clearance certificate:

	CGST	SGST	ENTRY TAX	ANY OTHER
Whether tax clearance certificate enclosed (Yes/No)				

- Schedule- wise items for which the bidder has submitted tender  
Dated  
Name/Scale of the bidder  
List of Furniture's/Machine etc



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## (List of Model for Mechanical Engineering Drawing) Package - 1

Sl. No.	Name of Instruments/Type/Specification	Rate per Unit
1	Model of Tetrahedron	
2	Model of Octahedron	
3	Model of Decahedron	
4	Model of Icosahedrons	
5	Model of triangular prism	
6	Model of Square prism	
7	Model of Pentagonal prism	
8	Model of Hexagonal prism	
9	Model of Triangular prism	
10	Model of Square pyramid	
11	Model of Pentagonal Pyramid	
12	Model of Hexagonal Pyramid	
13	Model of Cylindrical solid of revolution	
14	Model of Cone solid of revolution	
15	Model of sphere solid of revolution	
16	Model of frustum solid of revolution	
17	Model of truncated solid of revolution	

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## (List of Elements of Mechanical Engineering) Package - 2

<b>Sl. No.</b>	<b>Name of Instruments/Type/Specification</b>	<b>Rate per Unit</b>
1	Model of Cochran Boiler	
2	Model of Spring loaded safety valve	
3	Model of Lever safety valve	
4	Model of Dead Weight safety valve	
5	Model of Water Guard	
6	Model of Feed check valve	
7	Model of Blow off Cock	
8	Model of Fusible Plug	
9	Pure Reaction Turbine (Steam Turbine)	
10	Model of 4 Stroke Petrol Engine	
11	Model of 4 Stroke Diesel Engine	
12	Model of 2 Stroke Petrol Engine	
13	Model of 2 Stroke Diesel Engine	
14	Model of Babcock-Wilcox Boiler	
15	Model of Impulse Turbine (Steam Turbine)	
16	Model of Steam Engine	

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## (Basics Electrical Engineering Lab) Package – 3

Sl. No.	Name of Instruments/Type/Specification	Rate per Unit
1	Network Theorem Trainer for performing the following Experiments (i) Ohm's Law (ii) KCL and KVL (iii) Thevenin's and Norton's Theorems (iv) Superposition Theorem (v) Maximum power transfer theorem	
2	A complete set of Measurement of Power and power factor in a single phase RLC circuit	
3	A complete set of Measurement of B-H curve	
4	A complete set of power and power factor of a 3 phase circuit by using two wattmeter method	
5	A complete set of measurement of power by three voltmeters method	
6	A complete set of measurement of power by three ammeters method	
7	Variac 1 phase 230 V Experiments 10A,50 HZ	
8	Induction box 1.5 mH * 7	
9	Capacitance box	
10	Resistor load bench 2 KW max. load	
11	Rheostat 50 $\Omega$ ,5 Amp 100 $\Omega$ 5 Amp	
12	Wattmeter 5-10 A-150-300-600V	
13	Ammeter 5-10 Amp	
14	Voltmeter 150/300/600V	
15	Resistors 450 $\Omega$	
16	RL load box	

# Government Engineering College, Vaishali 844118

## (Computer and Accessories) Package – 4

Sl. No.	Name of Instruments/Type Specification	Rate per Unit
1.	Desktop Computer – Dell/HP/HCL/COMPQ- Powerful performance, the latest Intel® processor, and a sleek, colourful, compact design make up the newly redesigned Desktop, Intel® Core™i5 Processor (Complete Set) with high Configuration accessories.	
2.	UPS (On Line)- 10KVA with atleast 60min back up with isolation Transformer. Warranty on battery with battery rack Feature: Add up external battery system, cold start, dual communication interface, high epticiency short circuit protection, moduline construction design, with duel communication interface with warranty of 3 years on battery. Back up up to 1 hours, battery rack.	
3.	HP-All in one printer no of printers 10	
4.	Antivirus (Quick Heal/Norton/Mcfee) 10-15 users	
5.	Programing software (C,C++) for fundamental of information Technology (FIT) Code block/DEV C++ (for 50 user lienex) Microsoft Office 2010 (for 60Pcs)	

# Government Engineering College, Vaishali 844118

## (Basis Electronics and Digital Electronics) Package - 5

Sl. No.	Name of Instruments/Type/Specification	Rate per Unit
1	P-N Junction Diode Characteristics Apparatus with panel & Meters	
2	A Complete set of characteristics for PNP & NPN transistor	
3	DC Regulated power Supply output 0-30 Volt Dc Continuously variable by mean of coarse & fine control Max current:2 Amp	
4	UJT Characteristics Apparatus UJT Relaxation oscillator with panel & Meters	
5	MOSFET characteristics apparatus with panel & Meters	
6	SCR characteristics apparatus with panel & Meters	
7	FET characteristics apparatus with panel & Meters	
8	Clipping & Clamping circuit Apparatus	
9	Operational Amplifier as Inverting Non- Summing & Difference Amplifier with one Digital Voltmeter	
10	Operational amplifier as Differentiator & Integrator	
11	Logic Gates using Six TTLIC's (6in1)	
12	Basic Logic Gate using Discrete Components (7in1)	
13	Digital Logic Trainer (Logic Gates, Boolean Identities & Demorgan's Theorem)	
14	Verifications of truth Tables of Logic Gates using Universal Gates	
15	Digital multi meter	
16	Passive components ( resistance, capacitance)	
17	Multi-strand wires and single strand wires	
18	Bread boards	
19	Cutter	
20	Multivibrators (Astable/Monostable)	
21	Digital storage oscilloscope (4 channel, 70 MHz)	
22	Dc regulator with the help of zener diode	
23	Half wave and full wave rectifier kit with filter	
24	Universal Electronic Trainer kit with four Bread Board power supply:- analog (AC & DC ) Constant and Variable and digital 8 bit input	
25	Universal IC tester	
26	Diode 4007/5408, Zener Diode 5V, 10V	
27	Transistor BC 107, SL 100, SK 100, BF 190	

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## (List Chemistry) Package - 6

Sl. No.	Name of Instruments/Type/Specification	Rate per Unit
1.a	Pipette- 25ml (Borosil)	
b	Pipette- 20ml (Borosil)	
c	Pipette- 10ml (Borosil)	
d	Pipette- 5ml (Borosil)	
2	Ostwald viscometer	
3	Specific Gravity Bottle 50ml + 25 ml	
4	Burette with Teflon stop cock-50ml	
5.a	Beaker-5ml	
b	Beaker-10ml	
C	Beaker-25ml	
D	Beaker-50ml	
E	Beaker-100ml	
F	Beaker-150ml	
G	Beaker-250ml	
h	Beaker-100ml	
6.a	Conical Flask-10ml	
b	Conical Flask-25ml	
c	Conical Flask-50ml	
d	Conical Flask-100ml	
e	Conical Flask-250ml	
f	Conical Flask-500ml	
7.a	Volumetric Flask-100ml	
b	Volumetric Flask-250ml	
c	Volumetric Flask-500ml	
8.a	Glass Funnel-2" dia	
b	Glass Funnel-3" dia	
c	Glass Funnel-4" dia	
9.a	Measuring Cylinder-5ml.	
b	Measuring Cylinder-10ml.	
c	Measuring Cylinder-25ml.	
d	Measuring Cylinder-50ml.	
e	Measuring Cylinder-100ml.	
f	Measuring Cylinder-250ml.	
10.a	Dropping Bottle with pipette & Rubber teat size-30ml	
b	Dropping Bottle with pipette & Rubber teat size-60ml	
c	Dropping Bottle with pipette & Rubber teat size-125ml	
d	Dropping Bottle with pipette & Rubber teat size-250ml	
11.a	Reagent bottle with narrow mouth-250ml	
b	Reagent bottle with narrow mouth-250ml	
c	Reagent bottle with narrow mouth-250ml	
d	Reagent bottle with narrow mouth-250ml	
e	Reagent bottle with narrow mouth-250ml	
f	Reagent bottle with narrow mouth-250ml	
12	Test tube with rim-18×150mm	
13	Glass Rod	
14	Glass Tube	

15	Retort Stand with clamp, Bose Head & Ring, Base Size- 8"×5"(Heavy)	
16	Cork Borer ( Set of 6 )- Heavy Quality	
17	Filter Paper 12.5 Cm	
18	Sheet (Whatman No-1)	
19	Mortal & Pestle porcelain-3" dia	
20	Triangular stand	
21	Digital Turbidity Meter (Table? Top):- Display-3.5 digit LED, Range:- 0 to 1000 Ntun in 2 Ranges, Resolution:- 1 NTU Accuracy:-+3% FS +-1 Digit, Light Source:-Volt-1 amp, Tungsten Lamp. Detector:- Photocell/Photodiode.	
22	Digital pH Meter (Table Top):- Display -3.5 digit LED, Range:- 0 to 14.00 mV 0 to +-1999. Touch Button Calibration Resolution :- pH 0.01, mV 1, Temp. Compensation:- Auto 0 to 100 oc Manual 0 to 100 oc slope Control :- 80 to 120%	
23	Molecular Weight Determination Apparatus by Landsberger Apparatus	
24	Stop Watch (Digital)	
25	B. O. D. Bottle	
26	Rubber Tube for Viscometer	
27	Plastic Tub/Tray	
28	Digital Temperature Indicator	
29	Laser Printer & pen Drive	
30	Test Tube Stand Plastic	
31	Platinum Wire	
32	Charcoal Block	
33	Mouth Blow Pipe	
34	China Dish	
35	Water Bath	
36	Centrifuge Tube	
37	Iron Stand	
38	Keeps Apparatus (Glass)	
39	Erlenmeyer Flask	
40	Ordinary Thermometer	
41	Daniell electrochemical cell (Complete set)	
42	Orsat apparatus (Complete set)	



# Government Engineering College, Vaishali 844118

## (Other Equipment) Package - 7

Sl. No.	Name of Instruments/Type/Specification	Rate per Unit
1.	Photocopier with stabiliser	
2.	RO Storage Cooler cum Purifier – Approx dimension 640 x 450 x 1350 mm, Operating power supply – 170 to 240V AC single phase, running Current-approx. $4.5 \pm 10\%$ , power $700 \pm 10\%$ W, Water storage capacity – 80 litres	
3.	Fire Extinguisher – Co <sub>2</sub> 4.5 Kg Capacity.	
4.	AC 1.5t with stabiliser.	

# Government Engineering College, Vaishali 844118

## (Physics Laboratory) Package - 8

Sl. No.	Name of Instruments/Type/Specification	Rate per Unit
1	A Complete set for management of forbidden energy gap of a semiconductor diode	
2	A Complete set for measurement of focal length by convex mirror using uv method	
3	Vernier Callipers (Dial Type)	
4	Bar pendulum with accessories	
5	Screw Guase and wire	
6	Spherometer and accessories thick glass plate.	
7	To determine input & output characteristics of a PNP/NPN Jn. Transistor in CE Mode.	
8	To find diode resistance by PN Jn. Diode	

# Government Engineering College, Vaishali 844118

## (Silent Gen-set) Package – 9

Item with Specification			Quantity
Silent Gen-set Kirloskar/Mahindra/Jakson/Asjok Leland Ltd. Make			
i	Power rating	62.5KVA	
ii	Phase	3 phase 415V	
iii	Battery Capacity	90-100Ah	
iv	Fuel Tank Capacity	145-150Liter	
v	Speed	1500 rpm	
vi	Type of Fuel	Diesel	
vii	Cylinder	04	
viii	Rated Current	8-87 AMP	
ix	Power Factor	0.8-0.85	
x	Rated K.W	50-60 KW	
xi	Starting System	12V DC	
xii	Engine Cooling	Liquid/Water Cooled	
<b>General Features Should be</b>			
i	Ease of access and serviceability for routine		
ii	Weather and sound resistant enclosure		
iii	Perfect insulation for flammability		
iv	LCD Display		
v	Low emission and high efficiency of Engine as per norms of CPCB		
vi	Low Fuel and Lubricant oil consumption		
vii	Long maintenance intervals		
viii	Low Noise and Vibration		

**Note: the supplier quote the cost of installation and commissioning separately.**

**Government Engineering College, Vaishali 844118**  
**(List of Books) Package - 10**

Sl. No	Name of the Journals	Authors	Quantity
1	Engineering Chemistry- AKU	Wiley Series	
2	Engineering Mathematics - 1- AKU	Wiley Series	
3	Engineering Mathematics - 2- AKU	Wiley Series	
4	Environmental Science - AKU	Wiley Series	
5	Workshop Practice - AKU	Bawa	
6	Communicative English - AKU	Wiley Series	
7	Engineering Graphics - AKU	Wiley Series	
8	Fund of Information Technology - AKU	Wiley Series	
9	Basic Electrical Engineering - AKU	Shanmugum	
10	Basic Mechanical Engineering - AKU	Kothari	
11	Information Security - AKU	Marks Stamp	
12	Object Oriented Programming - AKU	Dreamtech	
13	A Textbook of Electrical Technology - 1	B.L. Theraja	
14	A Textbook of Engineering Drawing	Dhawan, R.K.	
15	Advanced Engineering Mathematics	Dass, H.K.	
16	Advanced Engineering Mathematics	Kreyszig E	
17	Applied Engineering Chemistry	Ashok Kumar	
18	Basic Computer Engineering and Designers	Silakari	
19	Basic Electrical & Electronics Engineering	R.R.Singh	
20	Basic Electrical And Electronics Engineering	jegathesan	
21	Basic Electrical Engineering	Singh	
22	Basic Electrical Engineering	Gailkwad	
23	Basic Electrical Engineering	Jena	
24	Basic Electrical Engineering	Fitzgerald	
25	Basic Electrical Engineering	Pradeep Kumar	
26	Basic Electrical Engineering & Electronics	Sharma	
27	Basic Electronics Engineering	Baru	
28	Basic Inorganic Chemistry	Cotton	
29	Basic Mechanical Engineering	Agrawal	
30	Basic Mechanical Engineering	Mubeen A	
31	Basics of Electronics Engineering	Wiley	
32	Chemistry of Engineers	Agnihotri	
33	Communicative English for Technical Students	Kalpana Singh	
34	Concepts of Modern Physics	Beiser	
35	Concise Engineering Chemistry	Goel	
36	Design Data Handbook For mechanical Engineers	Mahadevan	
37	Electrical Machines	Bhimbhra	
38	Electrical And Electronic Technology	Hughes	
39	Electrical Technology	H. Cotton	
40	Elements of Environment Pollution Control	O.P. Gupta	
41	Elements of Mechanical Engineering	Kittur	
42	Elements of Mechanical Engineering	S.N.Lal	
43	Engg. Mech. Strngth of materials and Elements	Venkatramaiah	

44	Engineering Chemistry	Chawla	
45	Engineering Drawing	Jolhe	
46	Engineering Drawing	Phatak	
47	Engineering Drawing	N.D. Bhatt	
48	Engineering Drawing & Graphics Using Autocad	Jeyapoovan	
49	Engineering Graphics	Phull	
50	Engineering Mechanics	Khumi, R.S.	
51	Engineering Mechanics - Statics	meriam	
52	Engineering Mechanics - Statics & Dynamics	Shames/Rao	
53	Engineering Mechanics - 2	Jindal	
54	Engineering Mechanics of Solids	Popov	
55	Engineerng mechanics Statics & Dynamics	Rajasekaran	
56	Engineerng Mechanics : Dynamics	Meriam	
57	Engineering Physics	Sarin	
58	Engineering Physics	Kakani	
59	Engineering Physics	Wiley India	
60	Engineering Physics	Katiyar	
61	Engineering Physics	S.L. Gupta	
62	Engineering Physics - 1	Rajive Lodhi	
63	Environmental Studies	Daniels, Krishnaswamy	
64	Essen. Of Experi. Engg. Chemistry	Chawla	
65	Fund. Of Engineeng Drawing & Autocad	Parvez	
66	Fundamentals of Electrical Engineering	Bharti Dwivedi	
67	Fundamentals of Information Technology	Leon	
68	High School English Grammar & Composition	Wren & Martin	
69	Higher Engineering Mathematics	Ramana	
70	Higher Engineering Mathematics	Grewal	
71	mastering AutoCAD and AutoCAD LT - 2014	Omura	
72	Physics- 1	Halliday	
73	Physics- 2	Halliday	
74	Principles of Physics	Walker	
75	Technical Commuication : Principles	Meenakshi Raman	
76	Textbook of Engineering Physics	Kakani	
77	Textbook of Environmental Engineering	nelson	
78	Vector Mechanics for Engineers	Beer & johnson	
79	Word Power Made Easy	Norman Lewis	
80	Workshop Techology - 1	Hajra, Chaudhury	
81	Workshop Techology Vol. 1	Raghvan	
82	Workshop Techology Vol. 2	Raghvan	
83	Workshop Techology Vol. 1	Chapman	
84	Environmental Chemistry	H.Kaur	
85	Workshop Techology - 2	Hajra, Chaudhury	
86	Workshop Techology Vol. 2	Chapman	
87	Workshop Techology Vol. 3	Chapman	

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**(List of Journals) Package - 11**

<b>Sl. No</b>	<b>Name of the Journals</b>	<b>Authors</b>	<b>Quantity</b>
1	Indian Journal of Advances in civil Engineering		
2	Indian Journal of Applied Maths & Computer Science		
3	Indian Journal of Civil Mechanical Engineering		
4	Indian Journal of Computer Science & Applications		
5	Indian Journal of Computer Systems, Networks & Communications		
6	Indian Journal of Electrical & Electronics Engineering		
7	Indian Journal of Electrical, Computer & System Engineering		
8	Indian journal of Electronics & Communication Engineering		
9	Indian Journal of Fluids Engineering & Mechanical Engineering		
10	Indian Journal of Industrial Electronics & Control		
11	Indian Journal of Information Technology		
12	Indian Journal of Materials Science		
13	Indian Journal of Mechanical Engineering		
14	Indian Journal of Mechanical Engineering & Physics		
15	Indian Journal of Mechanics & Technology		
16	Indian Journal of Networking & Computer Engineering		
17	Indian Journal of Networking & Technology		
18	Indian Journal of Power & Energy Systems Engineering		
19	Indian Journal of Software Engineering		
20	Indian Journal of Wireless Communication & Networking		
21	Intl. Journal of Advances in Physics		
22	Intl. Journal of Advances in Pure & Applied Chemistry		
23	Intl. Journal of Civil & Building Engineering		
24	Intl. Journal of Computer Engineer Information Technology & Engg.		
25	Intl. Journal of Electric Power		
26	Intl. Journal of Multimedia & Technology		
27	Intl. Journal of Power Generation		
28	Intl. Journal of Thermal Engineering & Technology		

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**(List of Furniture) Package - 12**

Sl. No.	List of Furniture	Quantity
1	<b>Godrej Maestro table set :-</b> table made of MDF Board clad with laminate, Desk ERU are post formed desk top size 1800 x 900 x 750., ERU of size 1200x 600 x 730 with drawers unit & one mobile drawer unit of size 1400 x 400 x 760 x & bokk case unit of size 790 W x 400D x 2200H	
2	<b>Godrej storwel plain with four shelves :-</b> Storwel made of mild steel CR sheet of grade D as per IS – 513 1994 of size 1980H x 916W x 486D MM multi bend construction and inter locking design and full length over lapping doors and sides. Three way bolting mechanism. Spot welding & CO2 welding. Anticorrosion treated components, over baked powder coating process. Material thickness 0.9mm. Top, bottom, LH&RH side and back material thickness = 0.9mm, removable RH & LH main door with stiffeners material thickness 0.9mm, 4 adjustable shelves of thickness 0.8mm.	
3	<b>Godrej Chair model PCH-7044T setback assembly:-</b> the seat made from 12cm thick hot pressed plywood and back injection moulded from black co-polmer polypropylenc are upholstered with fabric and moulded polyurethane foam together with seat and back covers. The back foam is designed with contoured lumber support or extra comfort. Seat size 45.0 cj W x 42.0cm D X back size 39.0cm W X 38.0 cm H seat/back cover the seat and back covers are injection moulded in back co-powlmer polypropylene. The polypropylene foam is mouled with density 45+/- 2kg/sq m. hardness 20+/-2 on hampden machine at 25% compressin. Ararest assembly: the armest assemblies are available in the different types T-types assembly the armrests are made of black integral skin polyurethane with 50-70 shore A hardness and reinforced wiht MS. Insert. The P U armrests are then fixed to black powder coated armrest brackets made of 0.5 cm thick HR steel fitted with claddings mad3 of injection moulded polypropylene approx. size of the 24.0cm L X 6.4cm W tubular frame the made of dia 2.54cm X 14bg. MS ERW tube which is black power coated.	
4	<b>Godrej table model T31:-</b> made of MS ERW round tube dia 25.4 x 1.2 mm thick with 25mm thick pre laminated top size 3 x 1'6 with one side one drawer unit made of 5mm thick CRCA sheet mild steel all steel components have power coated paint fitted with lock.	
5	<b>Godrej Karena mid back chair PCH 9P02TC :-</b> seat & back made up of 1.2cm thick hot pressed plywood upholstred with fabric & moulded polyurethane foam having density of 45+/- 2kg m3 & hardness 20+/- 2 weigh the bck size 48cm W X 66cm & seat size 50 mounted on fixed MS tubular armrest support chrome plated, static vertical arem supported adjustment jcf+/-1.5cm. front piyot synchro mechanism having 360 degree revolving type, single point control front pivot with tilt fit resting on ground, tilt tension adjustment, 4 position locking with antishock feature & the seat back tiling ratin 1.2 (11 degree seat tilt, 22 degree back tilt) with back rest pneumatic lenght adjustment of 10cm& the legs is fabricated from CR steel, chrome plated wiht black polypropylene hup cap and 5 nos, twin wheel castors (Castor wheel dia 5.0 cm) the pedestal is 65.0 cm pitch-centre dia. 75.0 cm with castors.	
6	<b>Godrej Monarch chair PCH - 9N01A X :-</b> revolving chair sharp & elegant design with reach leather finish ergonomically design with natural leather up holster at all contact areas knee tilt synchronous mechanism with four position locking & anti shock feature, height adjustable arrest, height 113.5cm W 62cm D 50cm, seat height 42.5cm	

7	<p><b>Godrej kareena visitor chair PCH 9P12T seat/ back assembly:</b> - the seat is made up of 1.2 cm, thick hot pressed plywood upholstered with fabric and moulded polyurethane foam. The back is made up 1.2cm thick hot pressed plywood upholstered with replaceable fabric upholstery covers and moulded polyurethane foam. The back ply and foam is designed with contoured lumber support for comfortable seating posture, MID back size 48.0cm W X 64.5cm H  Seat size 51.0 cm W X 48.0cm D polyurethane foam: the polyurethane foam for seat and back is moulded with density = 45 +/- 2kg m<sup>3</sup> and hardness = 20 = 2 armrests: the armrest top is made of moulded polyurethane (U.P) and mounted on to a fixed type M.S tubular armrest support chrome plated. The arm support has static vertical adjustment of +/- 1.5cm fixed backrest: the back rest consists of a fixed type mechanism i.e no back up/down adjustment, LEG frame assembly: leg frame welded assembly made from 35 x 15 x 16 BG (1.6 thick) elliptical M.S. ERW tube with base plate chrome plated for seat fixing.</p>	
8	<p><b>Godrej Class room desk cum bench model scholar 1048W desk cum bench:</b> scholar combines the elegance of wood with the strength of steel. It is ergonomically designed to minimize fatigue. This two seater model is best suited for schools and colleges. Dimension 1048 x 865 x 750 Approx desk panel seat, back the panels are made from 18mm thick pre laminated boards with PVC edge banding on all sides, understructure- made from 18mm thick pre laminated X 1.5 mm thick power coated ERW tubes at base which are welded to the desk and seat supports that are made of 1.0mm thick powder coated MSC sections. Stiffeners that are provided between the vertical frames at base and back of seat are made from 25.4 X 25.4 X 1.2 mm thick powder coated ERW tubes. The tubes are closed with plastic caps. Additional horizontal supports of 1.5 mm thick powder coated MSC section are placed below the desk and seat to add to the rigidity of the structure. The storage shelf is made from 0.8mm thick powder coated MS sheet which is affixed below the desktop. Hooks are provided on either sides of the vertical frame of the desk. For hanging bags/bottles. They are made from 6.0mm dia MS rods. Level adjusters are provided to take care of unevenness in floor.</p>	
9	<p><b>Godrej Table Model T-8: made of MS ERW</b> round tube dia 25.4 x 1.2mm thick with 25mm thick CRCA sheet mild steel, all steel components have powder coated paint fitted with lock</p>	
10	<p><b>Godrej table model T-9 : Executive table made of MS ERW</b> round tube dia 25.4 X 1.2mm thick with 25mm thick pre laminated top size 1365W X 680 D with both side drawer unit one side three drawers &amp; another side two drawers made of 5mm thick CRCA sheet mild steel all steel components have powder coated paint fitted with both side drawer lock.</p>	
11	<p><b>Godrej Bravo visitor chair model OCH- 9U12R seat:</b> back assembly: the seat and back are made up of 1.2 cm thick hot-pressed plywood, upholstered with fabric upholstered with fabric upholstery covers and moulded polyurethane foam. The back foam is designed with contoured lumber support for extra comfort. the seat has extra thick foam on front edge to give comfort to popliteal area. Dimension back size 47.5cm W X 58.0 H &amp; seat size 47.0cm X 48.0 cm D polyurethane foam: the polyurethane foam is moulded with density = 45 +/- 2kg/ m<sup>3</sup> and hardness = 20 +/- 2 at 25% compressing armrests: the one piece armrests are injection moulded from black co-polymer polypropylene. The powder coated tubular frame is cantilever type &amp; made of dia 25.4mm X 2mm thick M.S. ERW tube</p>	
12	<p><b>Godrej Computer Table:-</b>  (i) Model - Companion C3  (ii) Dimension - (in cm)  (iii) Width - 123  (iv) Depth - 61  (v) Height - 77</p>	



13	<p><b>Waiting Hall 3 Seater Chair (Godrej Make)</b></p> <p>Metal Perforated 3 seater Bench having of size: W 1680 mm X D 570 mm X H 850 mm Seat height 460 mm, SEAT/BACK FRAME ASSEMBLY: The seat and back are made of 18BG thick CR steel perforated sheets which are welded to a seat/back frame assembly made of Dia. 1.9cm (3/4") x 16BG the MS ERW tube. Connecting Strips made of 0.5cm thick HR steel are welded to the structure for assembly with the connecting beam. SEAT SIZE: 39.0cm. (W) X 41.5cm. (D) (Approx.) BACK SIZE: 39.0cm. (W) X 21.5cm. (H) (Approx.). ARMREST: It is made up of oblong tube of size 35mm x 15mm x 1.6Thk. &amp; Dia. 15mm bright bar welded to seat &amp; back frame assembly. CONNECTING BEAM ASSEMBLY: It is a U-shaped fabricated assembly made of Dia. 3.81cm. (1 1/2") x 14 BG. MS ERW twin tubes. The connecting tubes are welded together with MS base plates made of 12BG thick CR. Steel and mounting plate made of 0.5cm the HR Steel. Threaded inserts are provided on both ends of each connecting tube for fixing leg assembly on each side. The connecting beam assembly is powder coated. LEG ASSEMBLY: It is a 2-piece fabricated to form a box section made of 16BG the CR steel. Threaded nuts are welded to the box section for fixing adjustable glide screws. The leg assembly is powder coated. ADJUSTABLE GLIDE: The adjustable glide is injection moulded in black Nylon 6 and is used for level adjustment of the beam seating on uneven floor surface. It is fitted to the leg assembly.</p>	
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**Government Engineering College, Vaishali 844118**  
**(List of Furniture) Package - 13**

Sl. No.	List of Furniture	Quantity
1	Chemistry lab table size-8' x 5' x 3' made of sal (sakhua) wood with 16 nos of cupboard made of water proof kit ply board with locking arrangement and staining back. Leg size-3' x 3" x 3", top size-8' x 5" x 3/4"(green/century water proof ply), staining rack 4' x 8" x 2.5"	
2	8' x 5' granite stone 1/2" thick with mould 1" thick for chemistry lab table	
3	Physics lab table size-7' x 4' x 3' made of shisham wood, Leg size-3' x 3" x 3", thickness of top - 1.25", patti 4" x 1.5", pusttam 2" x 1.5", chan 3" x 1.5"etc	
4	Principal's period chart board 3' x 7' 18mm water proof ply with 10mm thick teak ply with polish.	
5	<b>Drawing table (inch) Fixed</b> Back height -41 inch front height -35 inch Depth - 21 inch Width- 30 inch leg frame made of 25mm x 25mm 8 square pipe Top table framing of 25 mm x 25mm angle.	
6	<b>Book selves (glass door storewel)</b> 4 door: 914 mm (w) x 320 mm (D) x 1742 mm (H).	
7	<b>Lecture stage size</b> 10 Inch x 6 Inch x 1 Inch, Leg - 9" x 3" x 3", Top-1" made of sal/shisham wood.	
8	<b>Steel Rack</b> with 6 shelves 6'0" x 36" x 18" powder coating, wood capacity:50-60 kg	
9	Plastic chair Neelkamal Make/ Supreme make	
10	<b>Drawing Board</b> 32 inch x 23 inch x 18 mm made up of pine wood.	
11	Stool wooden (shisham wood):- 1.5' x 1' x 2', small size	
12	Stool wooden (shisham wood):- 1.5' x 1' x 2.5', big size	
13	Notice board:-6' x 4' with aluminum frame non-breakable glass with soft back (pin board) with with lock	
14	Green writing board magnetic (1200 x 3000mm 2)	
15	Engg. Mechanics lab table size-7' x 4' x 3' made of shisham wood, Leg size-3' x 3" x 3", thickness of top - 1.25", patti 4" x 1.5", pusttam 2" x 1.5", chan 3" x 1.5"etc	
16	Elements of Mech. Engg. Lab table size-7' x 4' x 3' made of shisham wood, Leg size-3' x 3" x 3", thickness of top - 1.25", patti 4" x 1.5", pusttam 2" x 1.5", chan 3" x 1.5"etc	

# Government Engineering College, Vaishali 844118

## (List of Engineering Mechanics laboratory) Package - 14

Sl. No.	Items	Quantity
1	Combined Inclined plan & friction slide APPARATIS Cpmstomg pf a 15 x 60 wooden board	
2	Moment of Inertia of flywheel (with weight): Moment of iertia of flywheel (20cm dia) Com[prising of carefully machine and blanced cast iron wheel and steel spindle in support on ball beaing in stron iron brackets. The wheel smoothly painted	
3	Simply supported beam: Consisting of two compression thrust type 10Kg tubular sping balances fixed on wooden polished board,a wooden bar with steel back plate. Completed with stirrups, hook and two	
4	Worm & worm wheel (with weight): Worm and worm wheel consisting of machine cut worm gear of 25cm dia carrying a metal drum of 12cm dia and machine cut worm on steel spindle carrying a 12cm dia pulley. The whole arrangement is fixed on heave cast iron bracket capable to be fixed to a wall. Complete with two adjustable pulleys, cord and hoks.	
5	Screw jack (with weight): Screw jack All metallic construction accurately machine cut screw with a V pith of 5mm carrying double flanged turn table of about 20cm dia. Fitted on heavy cost iron base and complete with two adjustable pulleys, cord and hooks.	
6	Universal force table Apparatus: For experimentally verifying the laws of triangle, parallelogram and polygon of forces comprising of a equal circular 40cm, dia aluminum discm graduated in into 360 divisions(degree) , complete with leveling screw, clamping device to fix the table at any desired angle, five sliding clamp pulleys, central ring, string and five sets of iron nickelled slotted weight and one hanger of 50gm ceach	
7	<b>Pulley System different type (i)</b> First system of Pulley with four single Opulley all brass of 5cm with strings and two pans but without pulley frame. <b>(i)</b> Second system of pulley with two triple long pulley lagrge pulley 5cm., middle pulley 4cm dia and small pyley2cm all brass with two but without pulley frame. <b>(iii)</b> Pulley with metal upright but withg wooden base overjaul height about 80cm	
8	Different Shapes of Geometrical Models	

### Language Lab Specifications

#### Scope of Work

Language Lab aims at building and strengthening the English communication skills of the students and provides an end-to-end platform for learning through curriculum based learning and an in-depth assorted assessment system.

The language Lab in our institute is being setup for students. The level of activities and content that form part of these Lab should be constituted with this aim to promote and enhance all the English language skills of the children i.e. Listening, speaking, reading and writing(LSRW) with key emphasis on grammatical accuracy. Details are as under:-

Sr. No.	Description of Product	Qty	Specification
1	Cloud Based Language Lab Platform on Institute Website  (Membership Card for students to access the Course Content)	500 Users	Specimen Copy of membership card for student attached in technical bid.
2	Language Lab Software on Institute network <ul style="list-style-type: none"><li>• Student Console</li><li>• Teacher Console</li><li>• Headphone Mic</li></ul>	1+30 Users  +  31 no. of Headset	(Annexure –II )
3	Self Paced Learning English Language Content	Multiuser	(Annexure –III )
4	Language Lab Mobile App for Android	Multiuser	Specimen Copy of membership card for student attached in

			technical bid.
5	Phonetic Course in Hindi & English	Multiuser	(Annexure – V )

## Annexure -I

### Cloud Based Online Language Lab Platform on Institute Website

- **Cloud Based Online Language Lab Platform on Institute Website:**

- Cloud Based Platform with Institute Logo
- 500 Membership card for each student to access the course anywhere and anytime.

- **Entitlement**

- Teacher
- Student

- **Course Content –**

- Content for English based interactive content
- Interview exam for Academic, English, Personality Development,
- Soft skills for grooming and make them employable.

- **Platform to Provide**

- Access to curriculum courses.
- Access to soft skill :

The content should cover various topics and situations, to one's personality by kindling one's potential and enhancing it manifold in a self-educative and easy to absorb approach. The content should also include audio-video samples for better learning of different concepts.

- **Mobile App**

- Mobile app with institute name.
- All Courses should be accessible through the mobile app.

- **Mobile Learning**

- Access of courses from anywhere, anytime and any device.
- Students can access the interactive multimedia curriculum based courseware.
- 

- **Online Language Lab:** To enhance the communication Skills, Multimedia learning content for English, German, French, Soft skills, personality development and other job skills. Student

should have access language lab all the time and can polish their English language any time anywhere.

- It should be accessed from anywhere, anytime and from any device for self paced learning on convenience.
- It should provide privacy & effective learning and develops confidence in speaking English.
- It should helps to develop the communication skill of the learners.
- It should help to remove fear and hesitation of remote area's student in English language.
- It should facilitate in practicing the group discussion and prepares learners to face the interview confidently.
- It should help to improve pronunciation & remove mother tongue influence on spoken English.
- It should facilitate the trainers to emphasize on speaking skills and phonetics besides the formal teaching of vocabulary, syntax, pronunciation and grammar.
- It should help in grooming overall personality of learner of any age group.
- It should help in learning English as Language and not merely as a subject.

## **Annexure -II**

### **Language Lab on Institute Network**

#### **General Features**

- It should enhance the Communicative English skills of the students.
- It should have Basic Module in bilingual (English & Hindi) for better understanding of beginners.
- It should have a methodologically designed module to retain and enhance the student interest throughout the learning session.
- The system should work in 'neutralized Indian accent. It should enable a user to listen to see expert's voice and see the exact modulation in the form of a graph.
- It should have the facility to create new exercises for teacher (audio, video or text format can be authored). Should facilitate to
  - Author a new exercise altogether.
  - Make a new course from the existing courses.
  - Assign the courses to the respective batches.

- It should be user friendly so that faculty can take classes without any technical involvement.
- It should have specifically designed soft skills modules to polish the soft skills of an individual and impart them a presentable personality.
- It should have an Examination system for every lesson learnt to take assessments.
- The system should be compatible to all and any language.
- The system should allow the teacher to monitor, control, assist and gauge the progress of their students.
- Mechanized Teaching System
- Should have Class room teaching module as well as Lab practice module which will work in tandem for every lesson.
- Provision to make new exercise out of the existing courses as per the need.
- Strengthening three language skills:-
  - Listening
  - Speaking skills
  - Reading skills
  - Writing Skills
- It should have courses of 3 levels of competency:-
  - Basic (should be available in bilingual mode)
  - Intermediate
  - Advanced
- It should have Basic Module in bilingual (English & Hindi) for beginners.
- It should have or provision to run videos of a professional.
- It should have jaw muscle module.
- It should have Model Sentences.
- It should have vocabulary.
- It should have tips to speak Fluent English.
- It should have course for Self-lead and teacher-lead.
- It should have abundant practice exercises covering each lesson.
- Facility for Real Time Assessment
- Authoring System to create new courses as additional study materials for student reference or should add any ready-made course in language lab system.

- Create new lessons.
- CMS (Content Management System) to create new / tasks from the existing courses and assign to the students as per the requirement to practice:-
- Assign exercises to different batches/groups or sessions.
- Assign exercises to a group or particular student.
- Re-assign multiple exercises.
- Reporting.
- Monitoring & controlling to monitor students' progress, create courses, examinations and control students' activities in an easy and effective manner.
- The teacher may reset student password and change IDs.
- After listening to the pre-recorded lessons, students should record their own voice and compare the correctness of their pronunciation and general speaking skills.
- The software should contain a repository of most commonly used vocabulary with its correct pronunciation with audio and should also display a graphical waveform of the same.
- Save files on server for offline access.
- Send file to selected student or group of student Share videos, , audios and texts, Presentations, word document files etc over the network.
- Spoken English practical lab approach to provide practice lab where student can practice for LSWR at the same time in the same session.
- Examination Modules to set multiple objective-type questions for each class and subject according to the requirement and view a graphical representation of each student's performance and delete or edit any question.

### **Create Question bank**

- Quizzes and tests using text, graphics, audio / video.
- Exercise builder
- Question types- multiple choices, true/false, fill in the blanks
- Create Exam
- Assign Exam to individual student or group of students
- Schedule exam as per date & time
- Evaluate exam.



- Notice board facility to flash new notices on all student consoles with regards to any projects or exercises that the teacher wants to communicate.
- Courses should be based on various – Therapies, Methodology & Concepts.

### Annexure - III

#### Course Content should be available in Online Language Lab:

Sr. No.	Description	Course
1	English Communication Skills	<ul style="list-style-type: none"> <li>• Basic Grammar</li> <li>• Advanced Grammar</li> <li>• Language Skills</li> <li>• Spoken English Basic</li> <li>• Spoken English Advanced</li> <li>• Writing Skills</li> <li>• Vocabulary</li> <li>• Voice &amp; Accent</li> </ul>
2	Life Skills	<ul style="list-style-type: none"> <li>• Resolving Conflicts</li> <li>• Creating Confidence</li> <li>• Stress Management</li> <li>• Life skills – An Introduction</li> <li>• Effective Communication</li> <li>• Manage Professional and Personal life</li> <li>• Decision Making</li> <li>• Critical Thinking</li> <li>• Creative Thinking</li> <li>• Interpersonal Skills</li> <li>• Coping with Emotions</li> <li>• Coping with Stress</li> <li>• Empathy</li> <li>• Self Awareness</li> </ul>
3	Professional English	<ul style="list-style-type: none"> <li>• Resume Writing</li> <li>• Interview Skills</li> <li>• Group Discussion</li> <li>• Prepare for Placement</li> </ul>
4	Personality Development (PD)	<ul style="list-style-type: none"> <li>• Body Language</li> <li>• Etiquette</li> <li>• Time Management</li> <li>• Stress Management</li> </ul>
5	Competitive Exams	<ul style="list-style-type: none"> <li>• Mental Ability Test (MAT)</li> <li>• Logical Reasoning</li> <li>• CAT/MBA</li> <li>• AIPMT</li> <li>• Bank PO</li> </ul>

6.	<b>Managerial Skills</b>	<ul style="list-style-type: none"> <li>• Leadership</li> <li>• Motivation</li> <li>• Team Building</li> <li>• Presentation</li> </ul>
7.	<b>Motivation</b>	<ul style="list-style-type: none"> <li>• Strength of Character</li> <li>• Problem – Solving Tactics</li> <li>• Problem Solving</li> <li>• Motivate Yourself</li> <li>• Manage Professional and Personal Life</li> <li>• How to improve your life</li> <li>• Goal Setting &amp; Achieving</li> <li>• How to achieve Your Goals</li> <li>• Enhancing Your Efficiency</li> <li>• Exploring Your Potentials</li> <li>• Creating Confidence</li> </ul>

**Course in Detail:**

S.No.	Combos Name	Name of Courses
1	<b>Body Language</b>	<ul style="list-style-type: none"> <li>• Ways to improve your Body language</li> <li>• Interview Body Language</li> <li>• Sales Presentation Body Language</li> </ul>
2	<b>Stress Management</b>	<ul style="list-style-type: none"> <li>• Coping with Stress</li> <li>• Stress - Can You Fight It</li> </ul>
3	<b>Resume Writing</b>	<ul style="list-style-type: none"> <li>• Characteristics of an Outstanding Resume</li> <li>• Tips for Writing a Cover Letter</li> <li>• How to Mention Personal Traits in a CV?</li> <li>• How to Mention Work Experience in CV?</li> <li>• Resume Writing</li> <li>• Art of Effective Resume Writing</li> </ul>
4	<b>Interview Skills</b>	<ul style="list-style-type: none"> <li>• Interview Preparation</li> <li>• Dress for Success in an Interview</li> <li>• Tips for Telephonic Interview</li> <li>• Interview Jitters</li> </ul>
5	<b>Group Discussion</b>	<ul style="list-style-type: none"> <li>• GD Basics</li> <li>• Characteristics of a GD</li> <li>• Dos' and Don'ts of a GD</li> <li>• Evaluation of GD</li> <li>• Group Discussion</li> </ul>

6	<b>Prepare For Placement</b>	<ul style="list-style-type: none"> <li>• Job Seeking Formulas</li> <li>• Bargaining Your Salary</li> <li>• Career Management</li> <li>• 10 Common Grammar Mistakes</li> </ul>
7	<b>Leadership</b>	<ul style="list-style-type: none"> <li>• How to be a Thought Leader</li> <li>• How to Think Like a Leader</li> </ul>
8	<b>Motivation</b>	<ul style="list-style-type: none"> <li>• Strength of Character</li> <li>• Problem-Solving Tactics</li> <li>• Problem Solving</li> <li>• Motivate yourself</li> <li>• Manage Professional and Personal life</li> <li>• How to improve your life</li> <li>• Goal Setting &amp; Achieving</li> <li>• How to Achieve Your Goals</li> <li>• Enhancing Your Efficiency</li> <li>• Exploring Your Potentials</li> <li>• Creating Confidence</li> </ul>
9	<b>Team Building</b>	<ul style="list-style-type: none"> <li>• Team Hiring</li> <li>• Build a Winning Team</li> <li>• Is Your Team Effective</li> </ul>

<p>10</p>	<p>Life Skills</p>	<ul style="list-style-type: none"> <li>• Combo Pack</li> <li>• Resolving Conflicts</li> <li>• Creating Confidence</li> <li>• Stress Management</li> <li>• Life Skills - An Introduction</li> <li>• Effective Communication</li> <li>• Manage Professional &amp; Personal Life</li> <li>• Decision Making</li> <li>• Critical Thinking</li> <li>• Creative Thinking</li> <li>• Interpersonal Skills</li> <li>• Coping with Emotions</li> <li>• Coping with stress</li> <li>• Empathy</li> <li>• Self Awareness</li> </ul>
<p>11</p>	<p>Managerial Skills</p>	<ul style="list-style-type: none"> <li>• Combo Pack</li> <li>• Art of Effective Time Management</li> <li>• Ten Mantras to Corporate Success</li> <li>• Customer Relationship Management (CRM)</li> <li>• Migraine</li> <li>• Office Automation</li> <li>• Customer Service</li> </ul>
<p>12</p>	<p>Sales</p>	<ul style="list-style-type: none"> <li>• Combo Pack</li> <li>• How to Plan Sales Presentations</li> <li>• Selling with IQ/Smartness</li> <li>• Improve your Sales Skill</li> <li>• Sell Yourself</li> <li>• Selling with Attitude</li> <li>• Selling with Confidence</li> <li>• Selling with Integrity</li> <li>• Hypnotic Selling</li> <li>• Selling with Personality</li> <li>• Sales Communication</li> <li>• Selling Step by Step</li> <li>• The Language of Sales</li> </ul>

13	<b>Personality Development &amp; Soft Skills</b>	<ul style="list-style-type: none"> <li>• <b>Combo Pack</b></li> <li>• <b>Tips for Writing a Cover Letter</b></li> <li>• <b>Resume Writing</b></li> <li>• <b>Tips for Telephonic Interview</b></li> <li>• <b>Interview Jitters</b></li> <li>• <b>Interview Body Language</b></li> <li>• <b>How Body Language Works</b></li> <li>• <b>GD Basics</b></li> <li>• <b>Characteristics of a GD</b></li> <li>• <b>Evaluation of GD</b></li> <li>• <b>Time Management</b></li> <li>• <b>Coping with stress</b></li> <li>• <b>Public Speaking Basics</b></li> </ul>
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S. No.	Products	Course
1	Language LAB Advance PRO (1+30 Users)	<ul style="list-style-type: none"> <li>• Foundation English- General,               <ul style="list-style-type: none"> <li>• Basic English</li> <li>• Intermediate English</li> <li>• Advanced English</li> </ul> </li> <li>• Building Blocks of English,</li> <li>• Fluent English               <ul style="list-style-type: none"> <li>• Speak English Fluently</li> <li>• Fluent English (Level 1)</li> <li>• Fluent English (Level 2)</li> <li>• Fluent English (Level 3)</li> </ul> </li> <li>• Grooming the Language Skills (LSRW)               <ul style="list-style-type: none"> <li>• Grooming the Language Skills (Level 1)</li> <li>• Grooming the Language Skills (Level 2)</li> <li>• Grooming the Language Skills (Level 3)</li> </ul> </li> <li>• Voice and Accent Training               <ul style="list-style-type: none"> <li>• Voice &amp; Accent Training (Part 1)</li> <li>• Voice &amp; Accent Training (Part 2)</li> </ul> </li> <li>• Cryptogram               <ul style="list-style-type: none"> <li>• Tense buster</li> </ul> </li> <li>• Vocabulary Builder</li> <li>• Professional English               <ul style="list-style-type: none"> <li>• Professional English (Part 1)</li> </ul> </li> </ul>

		<ul style="list-style-type: none"> <li>• Professional English (Part 2)</li> <li>• Professional English (Part 3)</li> <li>• Personality Development <ul style="list-style-type: none"> <li>• Body Language</li> <li>• Stress Management</li> <li>• Resume Writing</li> <li>• Interview Skills</li> <li>• Group Discussions</li> <li>• Prepare For Placement</li> <li>• Leadership</li> </ul> </li> <li>• Team Building</li> <li>• Grammar Fundamentals, <ul style="list-style-type: none"> <li>• Basic Grammar</li> <li>• Advance Grammar</li> </ul> </li> <li>• English Techniques, <ul style="list-style-type: none"> <li>• Basic English</li> <li>• Intermediate English</li> <li>• Advanced English</li> <li>• Phonology</li> </ul> </li> </ul>
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**Course Content should available on Institute Network**

**Course in detail:**

S. No.	Combos Name	Name of Courses
1	Basic English	<ul style="list-style-type: none"> <li>• Foundation English Level 1</li> <li>• Foundation English Level 2</li> <li>• Building Blocks of English Level 1</li> <li>• Vocabulary Builder</li> <li>• Let's Learn English through Hindi</li> </ul>
2	Intermediate English	<ul style="list-style-type: none"> <li>• Grooming the Language Skills Level 1</li> <li>• Grooming the Language Skills Level 2</li> <li>• Grooming the Language Skills Level 3</li> <li>• Fluent English Level 1</li> <li>• Fluent English Level 2</li> <li>• Fluent English Level 3</li> <li>• Building Blocks of English Level 2</li> </ul>
		<ul style="list-style-type: none"> <li>• Voice &amp; Accent Training Level 1</li> </ul>

3	Advance English	<ul style="list-style-type: none"> <li>• Voice &amp; Accent Training Level 2</li> </ul>
4	Basic Grammar	<ul style="list-style-type: none"> <li>• 10 Common Grammar Mistakes</li> <li>• Cryptogram</li> <li>• Foundation English (Part 1)</li> <li>• Foundation English (Part 2)</li> <li>• Foundation English (Part 3)</li> </ul>
5	Advance Grammar	<ul style="list-style-type: none"> <li>• Building Blocks of English Level 1</li> <li>• Building Blocks of English Level 2</li> <li>• Building Blocks of English Level 3</li> </ul>
6	Language Skills	<ul style="list-style-type: none"> <li>• Grooming the Language Skills (Part 1)</li> <li>• Grooming the Language Skills (Part 2)</li> <li>• Grooming the Language Skills (Part 3)</li> </ul>
7	Voice and Accent	<ul style="list-style-type: none"> <li>• Voice &amp; Accent Training (Part 1)</li> <li>• Voice &amp; Accent Training (Part 2)</li> </ul>
8	Spoken English Basics	<ul style="list-style-type: none"> <li>• Fluent English (Part 1)</li> <li>• Let's Learn English in 30 days (Part 1)</li> <li>• Let's Learn English in 30 days (Part 2)</li> <li>• Let's Learn English in 30 days (Part 3)</li> <li>• Let's Learn English through Hindi</li> </ul>
9	Spoken English Advanced	<ul style="list-style-type: none"> <li>• Fluent English (Part 2)</li> <li>• Fluent English (Part 3)</li> <li>• Spoken English Basic</li> <li>• The Art of Effective Communication</li> </ul>

10	Writing Skills	<ul style="list-style-type: none"> <li>Email Writing</li> <li>Letter Writing</li> <li>Notice Writing</li> </ul>
11	Let's Learn Grammar	<ul style="list-style-type: none"> <li>Foundation English Level 1</li> <li>Foundation English Level 2</li> <li>Building Blocks of English Level 1</li> </ul>
12	Phonetics	<ul style="list-style-type: none"> <li>Voice &amp; Accent Training Level 1</li> <li>Voice &amp; Accent Training Level 2</li> </ul>
13	Let's Learn English in 30 days	<ul style="list-style-type: none"> <li>Let's Learn English in 30 days Level 1</li> <li>Let's Learn English in 30 days Level 2</li> </ul>
14	Speak English Fluently	<ul style="list-style-type: none"> <li>Fluent English Level 1</li> <li>Fluent English Level 2</li> <li>Fluent English Level 3</li> </ul>
15	Groom Your English Skills	<ul style="list-style-type: none"> <li>Grooming the Language Skills Level 1</li> <li>Grooming the Language Skills Level 2</li> <li>Grooming the Language Skills Level 3</li> </ul>
16	Professional English	<ul style="list-style-type: none"> <li>Professional English (Part 1)</li> <li>Professional English (Part 2)</li> <li>Professional English (Part 3)</li> </ul>
17	Let's Learn English through Hindi	<ul style="list-style-type: none"> <li>Let's Learn English through Hindi</li> </ul>
18	Tense Buster	<ul style="list-style-type: none"> <li>Building Blocks of English Level 1</li> </ul>
19	MTI Module	<ul style="list-style-type: none"> <li>Mother Tongue Influence removal module</li> </ul>
20	Vocabulary Module	<ul style="list-style-type: none"> <li>Complete Vocabulary</li> </ul>
21	Courses Should be different accent	<ul style="list-style-type: none"> <li>Neutral (Indian)</li> <li>British</li> </ul>



		<ul style="list-style-type: none"> <li>• <b>American</b></li> </ul>
22	Phonetics	<ul style="list-style-type: none"> <li>• <b>Learn Phonetics in English</b></li> <li>• <b>Learn Phonetics in Hindi</b></li> </ul>
23	Diphthong Module	<ul style="list-style-type: none"> <li>• <b>Learn about diphthongs</b></li> </ul>

## Annexure - IV

### Language Lab Mobile App for Android

- **College Named App for Mobile/TAB** – Smartest way to working on smart phone and tabs.
  - **The Digital College App** will help simplify everyday tasks such as Learning, Teaching, communication, attendance and assessment to save time and increase perform even better.
  - **Learn Anytime, Anywhere** – Learners can get learning content and exams on mobile phone or tab.
  - **Login for learners & instructors**
  - **Easy communication**- Send information to your class from your mobile phone within a few clicks. Get updated messages, Announcements, assignment, exams, and notes from your parents and teacher.
  - **Ask Experts** - Online teachers support for academic query, tutoring, guidance and assistance anytime.
  - **Learn on the wheels** – Continue from where you stopped whenever you feel like. Compatibility on mobile devices gives you the liberty to revise the multimedia lectures and activities on the go, thereby, helping you to utilise your travel or leisure time.

### **Student App Modules**

- Search and Learn Courses

- Add courses to favorites for quick access
- Ebooks
- Online Exam and Results
- Notes
- Follow Teachers
- Ask Question/ eQuery to Followed Instructors
- Assignments
- Get notification from the teachers/experts you follow

### **Teacher App Modules**

- Search and Refer Courses
- Create and manage batches
- Add courses to favorites for quick access
- Create, Upload, and Publish Courses / Content
- Create, Upload, and Publish eBooks
- Create, manage, and assign exams to followers/ batches
- Create, manage, and give assignments to followers/ batches
- Share Notes with students / followers/ batches
- Publish and Un-publish your data
- CMS (Content Management System). Create courses quickly from your e-repository, reusing content for different target audience
- Create you subject proficiency profile.
- Reply queries of followers/ learners/ students quickly

# Annexure - V

## Phonetic Course in Hindi & English

### Learn Phonetics in Hindi & English

Topic	File Name
Introduction to Phonetics	Introduction to Phonetics
Phonetic Chart Explained	Consonant Pair Sounds
Vowels Sounds	Vowel Sounds
	The -i-- Sound
	The -i- sound
	The -ʊ- sound
	The -u-- Sound
	The -e- Sound
	The -ə- Sound
	The -ɜ-- Sound
	The -ɔ-- Sound
	The -æ- Sound
	The -ʌ- Sound
	The -ɑ-- Sound
	The -ɒ- Sound
Diphthongs	Diphthong Sounds
	The -iə- Sound
	The -ʊə- Sound
	The -ei- Sound
	The -aɪ- Sound
	The -aʊ- Sound
Consonant Pairs	Consonant Pair Sounds
	The -p- Sound
	The -b- Sound
	The -t- Sound
	The -d- Sound
	The -tʃ- Sound
	The -dʒ- sound

	The -k- Sound
	The -g- Sound
	The -f- Sound
	The -v- sound
	The -θ- sound
	The -ð- sound (dh)
	The -s- Sound
	The -z- Sound
	The -ʃ- Sound
	The -ʒ- sound
<b>Single Consonants</b>	<b>Single consonant Sounds</b>
	The -m- Sound
	The -n- Sound
	The -ŋ- sound (ng)
	The -h- Sound
	The -l- Sound
	The -r- Sound
	The -w- Sound
	The -j- Sound