

438

Directorate of College Development Council,  
University of Jammu, Jammu

No: CDC/14/3239-40  
Dated: 06.08.2014

To

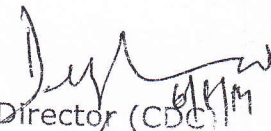
The Deputy Secretary (Legal),  
J&K Board of Professional Entrance Examinations,  
Jammu.

Sir,

This has reference to your letter No. BOPEE/Camp-J/07/2014 dated 23.07.2014. In this connection we may inform you that the intake of Yogananda College of Engineering & Technology, Gurha Brahmana (Patoli), Akhnoor Road, Jammu, includes the increased intake in two streams viz., Civil and Mechanical Engineering, from 60 to 120 seats each for the session 2014-15 onwards, as approved by the AICTE vide F.No. North-West/1-2016657831/2014/EOA dated 04 June, 2014, and permitted by Higher Education Department, J&K Government, vide No. HE/Recog/J/75/2013 dated 10.07.2014.


Thanking you,

Yours sincerely,

  
Director (CDC)

Copy to:

1. Principal, Yogananda College of Engineering and Technology

  
6-8-14

437

Directorate of College Development Council,  
University of Jammu, Jammu

No: CDC/14/3239-40

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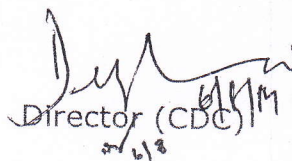
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Director (CDC)

Copy to:

1. Principal, Yogananda College of Engineering and Technology

436

06 Aug. 2014 13:48

YOUR LOGO : DIR COLLEGES DEV COUNCIL JMU  
YOUR FAX NO. : 01912430023

NO.	OTHER FACSIMILE	START TIME	USAGE TIME	MODE	PAGES	RESULT
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TO TURN OFF REPORT, PRESS 'Menu' #401.  
THEN SELECT OFF BY USING '▼' OR '▲'.



Annexure II

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# YOGANANDA COLLEGE OF ENGINEERING & TECHNOLOGY

## GURHA BRAHMANA PATOLI, AKHNOOR ROAD JAMMU

List of Faculty Members Available

S.NO	Name	Address	Designation	Qualification	Experience	Nature of appointment	Grade Salary
1.	Prof. B.L Sharma	65/A, Shastri Nagar, Jammu	Director	M. Sc, Ph.d (Chemistry)	35 Years	Adhoc	Rs 45,000/- consolidated
2.	Er. B.R Verma	36, Anand Vihar, Talab Tillo Bohri, Jammu	Dean	AMIE i) Electrical Engg. ii) E & C Engg.	30 Years	Adhoc	Rs 25000/- consolidated
3.	Er. Rajnish Magotra	7-A, Buta Nagar, Paloura, Jammu, J&K	Asstt. Professor (Civil Engg.)	M.E (Civil)	17 Years	Adhoc	Grade 15600-39100 (Rs 25,500/-)
4.	Er. Dinesh Gupta	Suraksha Vihar, Paloura Top, Jammu	Asstt. Professor (E&C Engg.)	M.E (Electronics ) Pursuing Ph.D	17 Years	Adhoc	Grade 15600-39100 (Rs 25,500/-)
5.	Er. Neeraj Pandita	H.No 20, Sec -2, Bantalab, Jammu	Asstt. Professor (Mechanical Engg.)	B.E (Production), M.Tech (Industrial Engg.)	16 Years	Adhoc	Grade 15600-39100 (Rs 25,500/-)
6.	Er. Loveneesh Talwar	62/3, Gole Puli, Talab Tillo, Jammu	Asstt. Professor (Electrical Engg.)	B.E (Electrical ) M. Tech (Energy Mgt)	4 Years	Adhoc	Grade 15600-39100 (Rs 21,600/-)
7.	Mr. Rakesh Kumar	Roop Nagar, Jammu	Asstt. Professor (Mathematics)	M. Sc (Maths)	14 Years	Adhoc	Grade 15600-39100 (Rs 25,500/-)
8.	Er. Rhea Mahajan	230, Shastri Nagar Jammu	Asstt. Professor (Computer Engg.)	M. Tech (Software System) Gold Medalist	1 Year	Adhoc	Rs 15,000/- Consolidated
9.	Er. Vishal Gupta	H.No 393, Bakshi Nagar, Jammu	Lecturer (Mechanical)	B.E (Mechanical)	6 Years	Adhoc	Rs 13,000/- Consolidated
10.	Mr. Mariidul Sharma	H.No-14, L.No 24, Near Rajpura Park, Jammu	Lecturer (Chemistry )	M. Sc (Chemistry)	1 Year	Adhoc	Rs 15,000/- Consolidated



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11.	Mr. Rohit Gupta	569-B, Janipur Colony, Jammu	Lecturer (Physics)	M.Sc (Physics)	1 Year	Adhoc	Rs 12,000/- Consolidated
12.	Er. Ankush Sharma	H. No 27, Sec-4, Sanjay Nagar, Jammu	Lecturer (Mechanical)	B. Tech (Mechanical) Pursuing M. Tech	1.5 Year	Adhoc	Rs 12,000/- Consolidated
13.	Ms .Shweta Magotra	H. No 39, Sector-5, Lower Roop Nagar, Jammu	Lecturer (Chemistry)	M.Sc (Chemistry)	1 Year	Adhoc	Rs 12,000/- Consolidated
14.	Ms .Shivani Dogra	H. No 39, Sec-2, Lower Roop Nagar, Jammu	Lecturer (Physics)	M.Sc (Electronics)	1 Year	Adhoc	Rs 12,000/- Consolidated
15.	Ms. Nidhi Rajput	H. No 141, Old Gurha Bakshi Nagar, Jammu	Lecturer - II	B.E (IT)	1 Year	Adhoc	Rs 10,000/- Consolidated
16.	Mr. Anuj Tidyai	H.No. 147, Sec-4, Sanjay Nagar, Jammu, J&K	Asstt. Professor	B.Tech (Civil), Pursuing M.Tech	4 Years	Adhoc	Rs. 16,000/- Consolidated
17.	Miss. Rosy Bhau	Near Janta Floor Mills, Gangyal, Jammu	Asstt. Professor	M.Tech (Electrical)	1 Year	Adhoc	Rs. 18,000/- Consolidated
18.	Miss Ridhi Rajput	H. No 141, Old Gurha Bakshi Nagar, Jammu	Lecturer - II	MCA		Adhoc	Rs 10,000/- Consolidated
19.	Mr. Sandeep Singh	Asia Public School Digiana Jammu	Asstt. Professor	MBA, Mkt, HR	10 Years	Part - Time	Rs. 150/- per lecture
20.	Mr. Retaish Raina	62/9, Dream City Barnai Jammu	Asstt. Professor	MBA, Mkt, HR	2 Years	Part - Time	Rs. 150/- per lecture



# YOGANANDA COLLEGE OF ENGINEERING & TECHNOLOGY

## GURHA BRAHMANA PATOLI, AKHNOOR ROAD, JAMMU

### List of Non-Teaching Staff

S.NO	Name	Address	Designation	Qualification	Experience	Grade Salary (Consolidated)
1.	Mr. Prem Nath Langoo	H.No 7, Lane 1, Marble Enclave, Ext. 4, trikuta Nagar, Jammu	CAAO	MSW, C.A. IIB PGD in Industrial Relations	45 Years	Rs 25,000/-
2.	Mr. R.L. Abrol	VPO Kote, Tehsil & District Jammu	Office Superintendent	Under Graduate	40 Years	Rs 10,000/-
3.	Mr. Vikas Khajuria	JMC-115, Wazir Lane, Talab Tillo, Bohri, Jammu	Assistant Liason Officer	PGDJMC	13.5 Years	Rs 16,000/-
4.	Mrs. Neelam Pandita	H.No 57, Lane 24, Swarn Vihar, Police Colony, Bantatalab, Jammu	Librarian	M.Lib in information Science	3 Years	Rs 10,000/-
5.	Mr. Parveen Sharma	Behind Head Post Office, Udhampur, J&K	Librarian	M.Lib Science	1.6 Years	Rs 10,000/-
6.	Mr. Ram Charan Dass Sharma	233 MCJ, Lane 23, Near Park, Rajpura Mangotrian, Jammu	Office Assistant	Under Graduate	40 Years	Rs 6,000/-
7.	Mr. Bikram Singh	VPO Mishriwala, Teh. & District Jammu	Store Keeper	B.Com	4 Years	Rs 7,000/-
8.	Ms. Pooja Sharma	H.No. 188, Gurha Brahmana Barnai, Jammu	Office Assistant	B.Sc	3 Years	Rs 4,500/-
9.	Ms. Roshni Kour	Ambphalla, Jammu	Office Assistant	MA, B.Ed	8 Years	Rs 6,600/-
10.	Mr. Garu Ram	Keran Nallah, PO Bantatalab Jammu	Office Assistant	Graduate	4 Years	Rs 5,500/-
11.	Mr. Harbans Lal	Village Nagbani Machlian, PO Nagbani, Jammu	Security Guard	7th Class	32 Years	Rs 7,062/-
12.	Mr. Ashok Kumar	RO Purkhoo, PO Domana, Jammu	Security Guard	Matric	21 Years	Rs 6,281/-
13.	Mr. Des Raj	RO Bantatalab, Lane No. 1, Peer Baba Chowk, Jammu	Security Guard	9th Class	18 Years	Rs 6,000/-
14.	Mr. Vinod Kumar	Village Nagbani Machlian, PO Nagbani, Jammu	Security Guard	9th Class	20 Years	Rs 7,000/-
15.	Mr. Jagdish Singh	Patoli Brahmana, Jammu, J&K	Security Guard	---	15 Years	Rs 4,987/-
16.	Mr. Ravi Kumar	Patoli Brahmana, Jammu, J&K	Security Guard	---	15 Years	Rs 5,100/-



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17.	Mr. Sunil Kumar	H.no. 470, Rajpura Mangotrian, Jammu	Peon	Under Matric	2 Years	Rs 4,000/-
18.	Mr. Madan Lal	VPO Domana, Jammu	Peon	Under Matric	20 Years	Rs 4,000/-
19.	Mr. Balwinder Kumar	Gurha Brahmana (Patoli), Jammu	Peon	Matric	8 Years	Rs 4,000/-
20.	Mr. Parshottam Kumar	Gumpul Domana, Jammu	Peon	Under Matric	5 Years	Rs 4,297/-
21.	Mr. Pardeep Kumar	Gurha Brahmana (Patoli), Jammu	Peon	Matric	1 Year	Rs 4,000/-
22.	Mr. Ajay Saini		Gardner		4 Years	Rs 4,200/-
23.	Mr. Subash Chander	Jagti, Nagrota, Jammu	Driver	Under Matric	28 Years	Rs 7,000/-
24.	Mrs Venus Gill	Bakshi Nagar, Jammu	Sweeper Contractor			Rs 22,000/-

### List of Technical Supporting Staff

S.NO	Name	Address	Designation	Qualification	Experience	Nature of appointment	Grade Salary
1.	Mr. Thoru Ram	D-230, Shiv Nagar, Behind AG Office, Jammu	Workshop Instructor	ITI Diploma	42 Years	Adhoc	Rs 11,000/- Consolidated
2.	Mr. Tara Chand	F-268, Krishna Nagar, Jammu	Workshop Instructor	ITI Diploma	40 Years	Adhoc	Rs 9,000/- Consolidated
3.	Mr. Pawan Kumar	Sobka, P.O Gharota, Teh /Distt Jammu	Workshop Instructor	ITI Diploma	2 Years	Adhoc	Rs 7,000/- Consolidated
4.	Mr. Girdhari Lal	Village Pounichak, Akulpur, Domana, Jammu	Workshop Instructor	ITI Diploma	35 Years	Adhoc	Rs 8,000/- Consolidated
5.	Mr. Parshottam Kumar	Old Bahu Fort, Jammu	Electrician	Under Matric	15 Years	Regular	Rs 7,000/- Consolidated



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Annexure - II

**Details of Existing Buildings**

S.No	Details	No. of Rooms	Floor	Dimensions	Area (in sq.m)
1.	Chairman Room	01	First Floor	27'-6" x 22'	56.22
2.	Director Room	01	Ground Floor	31'-6" x 21	61.67

**INSTRUCTIONAL AREA**

S.No.	Details	Required as per AICTE Norms		Available			
		Number	Area in Sqm.	No. of rooms available		Area in sqm.	
1.	Class rooms	12	66 each 12 x 66 = 792 sqm.	12		926.11	
				Dimensions / Area of each class room			
				S.No	Dimensions	Area in Sft.	Area in Sqm
				1.	31' x 23'	713	66.26
				2.	38'6" x 21'6"	827.7	76.92
				3.	38'6" x 21'	808.5	75.13
				4.	43'6" x 22'6"	978.7	90.96
				5.	38' x 21'	798	74.16
				6.	43'6" x 21'	913.5	84.89
				7.	35' x 21'	735	68.30
				8.	38'6" x 21'3"	818.12	76.03
				9.	38'6" x 21'	808.5	75.13
				10.	38'6" x 20'3"	779.62	72.45
				11.	40' x 21'3"	850	78.99
12.	44' x 21'3"	935	86.89				
						9965.64	926.11

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Sl. No.	Details	Required as per AICTE Norms		Available			
		Number	Area in Sqm.	No. of rooms available		Area in sqm.	
2.	Tutorials	03	33 each 33 x 3 = 99 sqm.	03		142.46 sqm.,	
				Dimensions / Area of each tutorial			
				S.No	Dimensions	Area in Sft.	Area in Sqm
				1.	22'6" x 21'	472.5	43.91
				2.	25'6" x 21'	535.5	49.76
				3.	25' x 21'	525	48.79
						1533	142.46

S.No	Details	Required as per AICTE Norms		Available			
		Number	Area in Sqm.	No. of rooms available		Area in sqm.	
3.	Laboratories	25	66 each 25 x 66 = 1650 sqm.	25		1941.6 sqm	
				Dimensions / Area of each Laboratory			
				S.No	Dimensions	Area in Sft.	Area in Sqm
				1	52' x 26'	1352	125.65
				2	38'6" x 21'	808.5	75.13
				3	38'6" x 21'	808.5	75.13
				4	45'6" x 16'	728	67.65



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5	45'6" x 16'	728	67.65
6	45'6" x 16'	728	67.65
7	32'6" x 22'3"	723.12	67.20
8	31'6" x 22'9"	716.6	66.60
9	31'6" x 22'9"	716.6	66.60
10	34'3" x 21'3"	727.81	67.64
11	43'6" x 21'3"	924.3	85.90
12	34' x 21'3"	722.5	67.14
13	42'6" x 21'3"	903.12	83.93
14	38'6" x 21'	808.5	75.13
15	38'6" x 21'	808.5	75.13
16	38'6" x 21'	808.5	75.13
17	34'6" x 21'3"	733.12	68.13
18	31'6" x 22'9"	716.6	66.60
19	31'6" x 22'9"	716.6	66.60
20	43'3" x 22'6"	973.12	90.43
21	31'6" x 22'9"	716.6	66.60
22	45' x 25'	1125	
23			
24			
25.			



	Details	Required as per AICTE Norms		Available			
		Number	Area in Sqm.	No. of rooms available		Area in sqm.	
4.	Workshops	01	200 sqm.	03		412.86 sqm	
				Dimensions / Area of each Workshop			
				S.No	Dimensions	Area in Sft.	Area in Sqm
				1.	50' x 47'	2350	218.40
				2.	45' x 25'	1125	104.55
				3.	45' x 21'6"	967.5	89.91
						4442.5	412.86
5.	Computer Centre	01	150	01	47' x 44'	2068	192.19
6.	Drawing Hall	01	132	01	38'3" x 42'3"	1616.06	150.19
7.	Seminar Hall	01	132	01	44'6" x 32'6"	1446.2	134.40
8.	Library	01	400	01	78' x 56'	4368	405.9

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ADMINISTRATIVE AREA

S.No	Details	No. of Rooms required as per AICTE norms	Area Required in sqm.	No. of rooms available	Available		
					Dimensions	Area in Sft	Area (in sq.m)
1.	Principal Room	01	30	01	31'6" x 21'	661.5	61.47
2	Board Room	01	20	01	43'6" x 22'6"	978.75	91.96
3	Office	01	150	02	46' x 31'6"	1449	134.66
					46' x 31'6"	1449	134.66
4	Faculty Room			03	43'6" x 23'	1000.5	256.22
					43'6" x 23'	1000.5	
					31'6" x 24	756	
5	Central Store	01	30	01	22'6" x 21'6"	483.75	44.95
6	Maintenance	01	10	01	14' x 21'	294	27.32
7	Security	01	10	01	12' x 12'	144	13.38
8	House Keeping	01	10		11' x 10'6"	115.5	10.73
9	Pantry for Staff	01	10		11' x 10'	110	10.22
10	Exam. Control Office	01	30	01	15' x 21'6"	322.5	30



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### AMENITIES AREA

S.No	Details	Required as per AICTE Norms		Available			
		Number	Area in Sqm.	No. of rooms available	Dimensions	Area in Sft	Area (in sq.m)
1.	Boys Common Room	01	75	01	36' x 23'	828	76.95
2.	Girls Common Room	01	75	02	28'6" x 21'3"	605.62	96.75
					26' x 16'9"	435.5	
4.	Stationery Store & Reprography	01	10	01	14' x 21'	294	27.32
5.	First Aid-cum-Sick Room	01	10	01	14' x 21'	294	27.32
6.	Cafeteria	01	150	01		1640.46	152.46
7.	Toilets		150			3600	334.57

### **ADDITIONAL AREA AVAILABLE WITH THE INSTITUTE**

S.No	Details	Available			
		No. of rooms available	Dimensions	Area (in sft)	Area (in sq.m)
1.	Room	02			
			31'3" x 21'3"	664.06	61.71
			31'3" x 24'	750	69.70
<b>Total additional area</b>				<b>1414.06</b>	<b>131.41</b>



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**YOGANANDA COLLEGE OF ENGINEERING & TECHNOLOGY**  
**GURHA BRAHMANA PATOLI, AKHNOOR ROAD JAMMU**

As per the syllabus of the Jammu University, following laboratories are required to be in place in 3<sup>rd</sup> and 4<sup>th</sup> semester of B.Tech. The equipment / furniture required for the above laboratories have been procured and the labs are ready in all respects.

**1. Laboratories in 3<sup>rd</sup> Semester**

**A. CIVIL ENGINEERING**

- (i) Surveying – I
- (ii) Building drawing
- (iii) Engineering Geology
- (iv) Electrical Engineering
- (v) Mechanical Engineering Lab – I

**B. ELECTRICAL ENGINEERING**

- (i) Basic Electrical Engineering Lab (BEE)
- (ii) Electrical & Electronics Workshop

**C. MECHANICAL ENGINEERING**

- (i) Engineering Thermodynamics
- (ii) Fluid Mechanics
- (iii) Mechanics of Solid
- (iv) Theory of Machine – I
- (v) Workshop Practice

**D. COMPUTER ENGINEERING**

- (i) Object Oriented Programme Lab
- (ii) Numerical Methods
- (iii) Basic Electronics
- (iv) Basic Electrical Lab

**E. INFORMATION TECHNOLOGY**

- (i) OOPS
- (ii) COA
- (iii) Foundation of IT Lab
- (iv) Basic Electronics Lab

## 2. Laboratories in 4<sup>th</sup> Semester

### A. CIVIL ENGINEERING

- (i) Surveying – II
- (ii) Theory of Structures – I
- (iii) Fluid Mechanics
- (iv) Mechanical Engineering Lab – II

### B. ELECTRICAL ENGINEERING

- (i) Electronics – I
- (ii) Electrical Machine Lab
- (iii) Electrical Measurement Lab
- (iv) Control System

### C. MECHANICAL ENGINEERING

- (i) Electrical Engineering Lab
- (ii) Heat Transfer Lab
- (iii) Metallurgy & Material Science Lab
- (iv) Theory of Machines – II
- (v) Automotive Mechanics Lab

### D. COMPUTER ENGINEERING

- (i) Digital Electronics
- (ii) PC Hardware & Maintenance
- (iii) Electronics – II
- (iv) Communication Engineering Lab

### E. Information Technology

- (i) System Software
- (ii) Data Structure
- (iii) Mini Project
- (iv) Data Communication
- (v) PC Hardware & Maintenance



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Branch: CIVIL ENGINEERING 3rd Sem  
Branch: CIVIL ENGINEERING  
Course Title : SURVEYING - I LAB  
Course No: C-305

S.NO.	Descriptions	Qty
1	Survey Chain 30 meter as per ISI	3
2	Survey Chain 20 meter as per ISI	3
3	Prismatic Compass	3
4	Plane Table With Aluminium Tripod stand as per isi	6
5	Dumpy Level	3
6	Cross staff	3

Branch: CIVIL ENGINEERING  
Course Title : BUILDING DRAWING LAB.  
Course No: C-306

S.NO.	Descriptions	Qty
1	Riveted lap and butt joint	1
2	Typical joint of a roof truss	1
3	Deflection of Beam apparatus	1
4	Cross Section and elevation of plate girder	1

Branch: CIVIL ENGINEERING  
Course Title : MECHANICAL ENGINEERING  
Course No: M-312  
LIST OF EXPERIMENTS

S.NO.	Descriptions	Qty
1	To study the slider crank mechanism and its inversion.	1
2	To study different types of clutches.	
	Claw Clutch	1
	Conical Friction Clutch	1
	Plate Clutch	1
	Centrifugal Clutch	1
	Multiplate Clutch	1
3	To study different types of Flat and V-belt types of drivers.	1



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4	To study different types of gear teeth, gears and gear trains.	
	Compound gear train.	1
	Simple gear train.	1
5	To study different types of cams and cam followers.	1
	<b>Cams &amp; Follower Set of 5:-</b>	
	(A) Plate Cam: with Flat Faced Reciprocating Follower	
	(B) Tangent CAM: With Roller Oscillating Follower	
	© Cylindrical Cam: With Translating Follower	
	(D) Translating Cam: With Reciprocating Knife Edge Follower	
	(E) End Cam: With Reciprocating Follower	
6	To study free, damped and forced vibrations.	
7	To study the screw jack.	1
8	Static & Dynamic balancing machine.	1
9	Governer Apparatus	1

**Branch: CIVIL ENGINEERING**  
**Course Title : MECHANICAL ENGINEERING LAB.**  
**Course No: M-313**  
**LIST OF EXPERIMENTS**

S.NO.	Descriptions	Qty
1	Study various types of cams and followers.	1
2	Study of various types of gear trains.	
	Compound gear train.	1
	Simple gear train.	1
3	Study of Epicyclic gear train apparatus:	1
4	Study of Gearbox.	1
5	Study of Quick return motion mechanism.	1
6	To study free vibrations of equivalent spring mass system.	1
7	To study the forced vibrations of equivalent spring mass system.	
8	To study static and dynamic balancing apparatus.	

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**FOR B.E. 4<sup>TH</sup> SEMESTER CIVIL ENGINEERING**  
**List of Practicals**

S.NO.	Descriptions	Qty
1	Transit Theodolite with stand	3
	Digital Theodolite	1
2	Offset rod	10
3	Tangent clinometers	5
4	Techometer	3
5	Auto level	3

**Branch: CIVIL ENGINEERING**  
**Course Title: FLUID MECHANICS LAB**  
**Course No: C-407**  
**List of Practicals**

S.NO.	Descriptions	Qty
1	<b><u>Hydraulic Bench</u></b>	1
1	To verify Bernoulli's Theorem.	1
2	To find Metacentric height of a floating body.	1
3	To determine CC, CV and Cd for an Orifice/Mouthpiece.	1
4	Orifice App	1
5	Venturimeter	1
6	To study Reynold's Experiment.	1
7	To determine Cd for Notch/Weir.	1
8	To visualise the flow patterns for irrotational flow around aerofoil using Hele Shaw apparatus.	1
9	Tool Kit	1



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**CLASS: B.E. 4<sup>TH</sup> SEMESTER**  
**BRANCH: MECHANICAL ENGINEERING**  
**COURSE TITLE: MECHANICAL ENGG.-II LAB.**  
**COURSE NO.412**

**LIST OF EXPERIMENTS**

S.NO.	Descriptions	Qty
1	To find the thermal conductivity of a given insulating material.	1
2	To find out the dryness fraction of steam with throttling calorimeter.	1
3	To find the power of a four stroke SINGLE Cylinder petrol engine.	
	4 – Stroke Petrol Engine	1
	4 – Stroke Diesel Engine	1
4	To draw the heat balance sheet of a boiler.	
5	Study and analysis of various types of boilers.	
	Lancashire Boiler	1
	Locomotive Boiler	1
	Babcock & Wilcock Boiler	1
	Cochran Boiler	1
6	(a) Study of multi-cylinder Petrol engine.	1
	(b) Heat balance of the engine.	
	(c) Morse test.	
	(d) Valve timing diagram.	
7	Study of domestic refrigerator & to find the C.O.P. of a refrigeration unit on a refrigeration tutor.	1

**CLASS: B.E. 3<sup>RD</sup> SEMESTER (CIVIL ENGINEERING)**  
**BRANCH: MECHANICAL ENGINEERING**  
**COURSE TITLE: MECHANICS OF SOLID LAB.**  
**LIST OF EXPERIMENTS**

S.NO.	Descriptions	Qty
1	Universal Testing Machine 400 kn load capacity STANDARD ACCESSORIES FOR CONDUCTING TENSION TESTS Clamping jaws for testing Round and Flat specimens under Tension Tests. FOR CONDUCTING COMPRESSION TESTS A pair of Compression Platens, duly hardened ground and polished, with the bottom platen provided with guide- lines for placing the test specimen co-axial with	1



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	the Hydraulic RAM. FOR CONDUCTING BENDING/TRANSVERSE TESTS	
2	To find the hardness of a specimen using :	1
a)	Rockwell Hardness Tester	
b)	Brinell Hardness Tester	
c)	Vickers Hardness Tester	1
3	To conduct the Izod and Charpy Tests on a notched M.S. specimen	1
4	To conduct simple bending experiments for different types of loadings.	1

**CLASS: B.E. 3<sup>RD</sup> SEMESTER**  
**(ELECTRICAL & ELECTRONICS & COMM. ENGG.)**  
**BRANCH: MECHANICAL ENGINEERING**  
**COURSE TITLE: THERMAL ENGINEERING LAB.**

S.NO.	Descriptions	Qty
1	To find the effectiveness of a rectangular fin.	1
2	To find the dryness fraction of steam using Throttling calorimeter.	1
3	To find the thermal conductivity of a thermal conductor.	1

**FOR B.E. 4<sup>TH</sup> SEM MECHANICAL ENGINEERING.**  
**M-312 3rd sem**

S.NO.	Descriptions	Qty
1	Spring Testing machine	1
2	Epicyclic Gear Train	1
3	Sepratling Throtling calorimeter	1
4	Torsion testing Machine	1
5	Friction Factor in Pipe Apparatus	1

**M405**

S.NO.	Descriptions	Qty
1	Toggle cluth system	1
2	Rack & penion Stering system	1
3	Power Sterring System OLD	1



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4	Hydraulic Break System	1
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**M308**

S.NO.	Descriptions	Qty
1	Red Wood Viscometer no-1	1
2	Palton Turbine Test Rig 1kW	1
3	Kaplan turbine Model	1
4	Centrifugal Pump test Rig	1

**Class: B.E. 4TH Semester**  
**Branch: MECHANICAL ENGINEERING**  
**Course No: EE-411**  
**Course Title: ELECTRICAL ENGINEERING LAB.**

S.NO.	Descriptions	Qty
1)	Verification of Kirchoff's Laws.	4
2)	Verification of Superposition Theorem.	4
3)	Verification of Thevinin's Theorem.	4
4)	Verification of Reciprocity Theorem.	2
5)	Verification of Maximum Power Transfer Theorem.	2
6)	Measurement of current in various branches of RLC series-parallel circuit.	4
7)	Single phase power measuring by using a Wattmeter.	1
8)	Study of three-phase A.C Circuits with Star and Delta connected Load.	1
9)	Study of single phase transformers. Determination of voltage Ratio, Turns Ratio and Polarity Test with digital wattmeter	1
10)	. Open circuit and short circuit test of given single phase with digital wattmeter transformer. Determination of regulation and efficiency.	1
11)	Three P[hase Auto Transformer 10A	1
12)	Single Phase Auto Transformer 15 A	2
13)	Digital Multimeter	6
14)	Tool Kit	1



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**CLASS: B.E. 4<sup>TH</sup> SEMESTER**  
**BRANCH: MECHANICAL ENGINEERING**  
**COURSE TITLE: HEAT TRANSFER LAB.**  
**COURSE NO.M-405**  
**LIST OF EXPERIMENTS**

S.NO.	Descriptions	Qty
1	To find the thermal conductivity of a given insulating material.	1
2	To study heat transfer characteristics of horizontal cylindrical fins.	1
3	To study natural heat transfer from a vertical pipe.	1
4	To study experimentally cooling rates of a metallic plate and compare the result	1
5	Tool Kit	1

**CLASS: B.E 3RD SEMESTER**  
**BRANCH: INFORMATION TECHNOLOGY**  
**COURSE TITLE: BASIC ELECTRONICS LAB**  
**Course No. ECE-314**

S.NO.	Descriptions	Qty
1	To study the operation characteristics of the P.N. junction, Ge/Si (Forward & Reverse Characteristics).	4
2	To study the operation characteristics of Zener diode (Forward & Reverse Characteristics).	4
3	Half wave Rectifier.	4
4	Full wave / Bridge Rectifier.	
5	To study the operation characteristics (Input / Output) of PNP / NPN Transistor (Common Emitter / Common Base).	4
	Study of an emitter follower circuit.	4
6	To study the frequency response of signal amplifier (CE/CB).	4
7	To study the characteristics of FET.	4
8	Determination of h parameter from transistor characteristics.	4
9	Design of self Bias circuits using BJT.	4
10	Design of self Bias circuits using FET.	4
11	Multimeter	2
12	Function Generator	2



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**CLASS: 4<sup>TH</sup> SEMESTER**  
**BRANCH: INFORMATION TECHNOLOGY**  
**COURSE NO.: ECE- 405**  
**COURSE TITLE: DATA COMMUNICATION LAB**

S.NO.	Descriptions	Qty
1	Amplitude Modulation & Demodulation	4
2	Frequency Modulation & Demodulation	4
3	Frequency modulation & demodulation using Foster's	4
4	PCM & Demodulation	4
5	Pulse Amplitude Modulation (PAM) signal. PPM and PWM signals.	4
6	To observe & plot the output waveform of a ASK.	4
7	To observe & plot the output waveform of a FSK.	4
8	DSO 25 MHZ Coloured Display	2
9	Multimeter	2
10	Tool Kit	1
11	CRO 20 MHZ Dual Trace	4

**CLASS: B.E. 4<sup>TH</sup> SEMESTER**  
**BRANCH: ELECTRICAL ENGINEERING**  
**COURSE NO. : EE-407**  
**COURSE TITLE: ELECTRICAL MEASUREMENT LAB.**

S.NO.	Descriptions	Qty
1	Measurement of Power & power Factor in Single Phase Circuit (RLC Kit) with RLC Load	1
2	2. Measurements of Resistance by using	
	a) Wheatstone bridge.	3
	b) Kelvin's Double Bridge. complete set up with high current power supply conductivity attachment and spot galvanometer	2
3	Study of various types of Multimeters.	
a	Digital Multimeter 3.5 Digit	3
b	Analog Multimeter	2
c	Digital Multimeter 4.5 Digit	1
d	Bench type multimeter	1
4	Demonstration of M.C., M.I. and Dynamometer type instruments.	
5	Measurement of self inductance, mutual inductance	2
	a) Transformer windings and	
	b) Air-cored coils.	



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6	Extension of the range of Ammeter, Voltmeter, and Wattmeter, using Shunt/series resistance and instrument transformers.	2
7	Calibration of single phase energy meter by	1
	a) Direct loading	
	b) Phantom loading at various points.	
8	Calibration of three phase energy meter using standard Wattmeter.	1
9	Measurement of Capacitance using Schering Bridge.	2
10	Power factor meter digital type	1
11	Power factor meter analog type three Phase	1

### Electrical Lab Electrical & Electronics workshop / Electrical machine

S.NO.	Descriptions	Qty
1	Discreate Component Trainer	3
2	Bread Board Trainer with built in Function Generator	3
3	Earth Tester Digital Metravi	1
4	Display Board Different type s of active Passive component	1
5	Multimeter	2
6	Tool Kit	1
7	Techometer digital	2

### Civil

1	Ranging Rod 2M	50
2	Ranging Rod 3M	50
3	Wooden Hammer	3
4	Mettalic arrow	30
5	Wooden Peg	3
6	Levelling Staff	10
7	Through Compass	2
8	Survey Compass	2
9	Optical Square	2
10	Telescopic Stand	2



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**C306**

1	Model Of Beam & Beam connec	1
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1	Insulation Megger	2
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1	Optical Microscope	1
2	Scanning Elctroscope	1
3	A steel specimen 55mm x 10mm x 10mm (Charpy Test)	1

S.NO.	Descriptions	Qty.
	<b>M307 Engineering &amp; Themodynamic Lab</b>	
1	Orsat Gas analysis apparatus For study of CO <sub>2</sub> , CO, H <sub>2</sub> , O <sub>2</sub> , Illuminants Methane, Ethane and Nitrogen	01
	<b>M310</b>	
1	Disc brake model	01
2	Mechanical Brake system	01
3	Air brake system model	01
4	Bend & Block brake model	01
5	Single sheo brake model	01
6	Double sheo brake model	01
7	Internal extending brake	01
	<b>Automotive mechanical lab:-</b>	
1	Steering System Rack & Penion Type	01
2	Re-circulation valve type steering system	01
3	Worm & Roller type steering system	01

## A Brief of Activities Organized During 2013 – 14

Yogananda College of Engineering and Technology was commissioned in September last year, since then no stone has been left unturned to establish, acquire and develop infrastructure that can compete with the best Technical Institutes not only of Jammu & Kashmir State but also across the country. The **Welcome Function of B.E. Semester-I** was held on **October 07, 2013**.

Various activities were undertaken during the academic session 2013-14 for the students of Yogananda College of Engineering & Technology. These activities are as under:

### **1. Special / Guest Lectures:**

- a) During the session of B.E Semester-I, i.e, **Oct. 07, 2013 to Feb., 2014**, **Prof. B.L Sharma**, Director of the College delivered Four Lectures on:
  - i. Basic Chemistry and Dimensions Involved in Engineering Science.
  - ii. Global Warming
  - iii. Depletion of Ozone Layer.
  - iv. Acid Rain.
- b) **Prof. K.R. Sharma**, Principal, North Polytechnic, Purkhoo Camp, Domana, Jammu, delivered an extension lecture on "Mechanical properties of Materials". The significance of the lecture was to disseminate physical understanding of the mechanical properties of materials which are ascertained by performing carefully designed laboratory experiments that replicate as nearly as possible the service conditions.
- c) **Prof. Gurbachan Singh** of Civil Engineering from North Polytechnic, Purkhoo Camp, Domana, Jammu, delivered a comprehensive talk on "Economic, Environmental and Societal Issues" in material Science and Engineering. Prof. Singh emphasized in his address that it is essential for the engineer to know about and understand economic issues simply because the company / Institution for which he or she works must realize a profit from the products it manufactures.
- d) **Prof. Rakesh Vaid**, from the Physics and Electronics Department of the University of Jammu delivered an informative lecture on "**Nanotechnology**".



## 2. Faculty Development Programme

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The College organized Faculty Development Programme under ICT based Induction programme on "**Environmental Engineering and Management**" conducted by NITTTR (National Institute of Technical Teachers' Training & Research) Chandigarh through Video Conferencing during March 3-7, 2014. In the context, the workshop was actually a spectrum of outstanding deliveries by eminent and learned scholars of the Civil engineering Department from NITTTR to sensitize and equip participants with relevant knowledge and importance of engineering education, existing technologies and awareness campaigns on environmental issues and their necessary management at the source itself, transmitted live through video Conferencing.

## 3. Extra – Curricular Activities

Extra –curricular activities organized by the College during **2013 – 14** have been summarized as follows:

- (i) The students have been encouraged, and are being encouraged since the inception of the College to participate in various extra-curricular activities namely cricket, volley ball, kabaddi, kho-kho, tug of war, athletics, chess, carom, Badminton, Rangoli and the like. The students of our College with full enthusiasm participated in the Inter College Sports Competition organized by the Educational Institutions of Jamwal Group marked by **Abhishek Memorial Sports Meet** held during **April 16-17, 2014**.
- (ii) Acupressure session: Two sessions on Health Acupressure were conducted by **Mr. Jagjeet Singh** of **National Management of Health Acupressure Therapy** located at Talab Tillo, Jammu on **Dec. 27, 2013**. Mr. Singh deliberated on releasing stress by practicing the therapy in daily life including treatment of headache, migraine, high blood pressure, hypertension, spondylitis and the like.
- (iii) Pertinent to mention here that the Hon'ble Chairman **Er. Vidhi S. Singh** delivered outstanding lectures on Balanced Life, Emotional Intelligence.
- (iv) Awareness Camp on Road Safety was organized in collaboration with Maruti driving School – Jamkash Vehicleades (P) Ltd. On 16<sup>th</sup> of January, 2014. The awareness camp was organized to create awareness among

vehicle operators and local youth about Motor Vehicle Department rules and road safety.

#### 4. Workshops / Industrial Visits / Recreational Activities

- (i) The officials of HCL Technologies Pvt. Limited, Jammu, under the supervision of Er. Swati Bakshi conducted workshop on Networking and cloud computing on June 20, 2014. They briefed the students about basic Networking Concepts viz., establishment of LAN (local Area Network), importance of IP (Internet Protocol) addresses, various topologies and the like. It was an interactive session between students and officials of HCL technologies. The session was beneficial and knowledgeable for both students and faculty members for their comprehensive understanding of networking.
- (ii) The students of B.E Semester –I along with faculty members visited **Ranjit Sagar Dam and Tawi Technical Campus on Nov. 23, 2013** situated at the outskirts of Pathankot in Punjab. The students were accompanied by the faculty members to Dam site and Power house of 600 MW at **Ranjit Sagar Hydro Electric Power Station. The Engineers of Ranjit Sagar Dam** apprised students about generators, pen stocks, turbines, Switch yard and control room. Students also visited modernized labs, class rooms, workshops, library and boardroom of **Tawi Engineering College**.

#### 5. Parent-Teacher Meetings

In order to keep the parents abreast with the performance of the students, the colleges regularly conducts the Parents Teacher Meetings. The meetings during the session 2013-14 were held on following dates:

- (i) December 11<sup>th</sup>, 2013
- (ii) January 20<sup>th</sup>, 2014, and
- (iii) May 28<sup>th</sup> – 31<sup>st</sup>, 2014

The response of the parents towards the meetings has been very encouraging.



## Sports Facilities

**Yogananda College of Engineering & Technology (YCET)** has provided the facilities of both indoor as well as the outdoor sports viz. Chess, Badminton, Cricket, Football, Volleyball etc. for its students.

To give boost to the sports activities, a sports meet was organized at YCET sports ground on 17<sup>th</sup> of April, 2014 under the banner of **Jamwal Group of Educational Institutions (JGEI)**. A group of about 300 students from different colleges of **Jamwal Group of Educational Institutions** including **Tawi Engineering College, Tawi Polytechnic, Shahpur Kandi, Pathankot, Punjab**, apart from **Yogananda College of Engineering and Technology (YCET), Institute of Management Sciences (IMS), National College of Education (NCE), Institute of Engineering and Computer Sciences (IECS) and North Polytechnic (NP)**, Jammu participated in the meet viz. Cricket, Volleyball, Badminton, Kho-Kho, Chess, Carom, Athletics, Kabaddi, Rangoli and Tug of War.

The sports meet was witnessed by **Jenab Parvaiz Ahmed Malik – IAS, Commissioner Secretary to Govt. Technical Education, Youth Services and Sports Department, Prof. Desh Bandhu Gupta – Director, Colleges Development Council, University of Jammu, Jenab N.H. Malik, Secretary, State Board of Technical Education, Jenab Mohd Shafi Bhat, Joint Director, Directorate of Technical Education and Er. Jeetander Kesar, Registrar- SBOTE and other dignitaries like Er. Neeta Maini – Principal, Govt. Polytechnic for Women, and Er. Arun Bangotra, Principal, Govt. Polytechnic, Jammu.**

**Wasim Sadiq Nargal**

Advocate

Central Govt. Counsel (Ministry of Home Affairs).  
Senior Standing Counsel for Union Public Service Commission.  
Standing Counsel for IMPA, SKUAST (J).  
University of Jammu, Forest Deptt.

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**Chambers :**

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No. WSN/SC/309/July

Dated : 28/7/2014

**Director College Development Council**

**University of Jammu**

**Jammu**

**Sub:** Legal opinion regarding affiliation and renewal of affiliation/ enhancement of intake capacity in the cases of Bhargava College of Engineering and Yogananda College of Engineering.

Sir,

I have gone through the record supplied to me and accordingly I opine as under:

That since, AICTE was granted seven days time to take decision on all pending applications before it, ~~besides~~ ~~on~~ that by the Hon'ble Supreme Court w.e.f 26<sup>th</sup> June, 2014, i.e. from the date the order came to be passed by the Hon'ble Supreme Court in case titled "**Jayamatha Engineering College v/s Union of India & Ors.**" and pursuant thereto, it was obligatory on the part of Universities/State Authorities/ Bodies which have the power of granting affiliation to take a decision on that subject within one week. The power to grant affiliation vest with the University and cannot be claimed as a matter of right which can be given by the University keeping in view the inspection reports and fulfilment of other riders as envisaged under the University Statutes. The University is not bound to grant affiliation on the mere asking, rather this privilege the University parts with, as per the mandate of University Statutes. Admittedly, in the case of Bhargava, the Chairman of the College submitted the approval of AICTE on