



Guru Nanak College (Autonomous)

(Affiliated to University of Madras & Re-Accredited At "A" Grade by NAAC)
No. 161, Guru Nanak Salai, Velachery, Chennai - 600042, Tamil Nadu
Website: www.gurunanakcollege.edu.in

3.5.2 Total Amount Spent on Developing Facilities, Training Teachers and Staff
for Undertaking Consultancy During the Last Five Years

Summary Sheet

|| 2019-20 ||



GURU NANAK COLLEGE (AUTONOMOUS)

Affiliated to the University of Madras

Accredited by NAAC at "A" Grade.

ISO Certified (9001 - 2015)

Guru Nanak Salai, Velachery, Chennai - 600 042.

CERTIFIED DOCUMENTS

METRIC NO. : 3.5-2

PAGE NO. : 1 TO 29


PRINCIPAL



GURU NANAK COLLEGE (AUTONOMOUS)
Guru Nanak Salai, Velachery, Chennai-42.

S.No	Name of the Staff/ facility	Department	Name of consultancy	Total amount spent (INR in Lakhs)
2019-21				
1	Dr.Bharathi Ravikrishnan	Department of Biotechnology	Bio-based Products and Intellectual Property Rights	11,415
	Dr.M.Mahendrakumar			
	Dr. P. Mahalakshmi			
	Mr.A.Amalalourthuraj			
	Ms. T. Ahanya			
	Ms. K. Priyadharshini			
2	Magnus inverted tissue culture Trinocular Microscope	Central Instrumentation Lab	NA	1,49,860
3	Magcam DC-5 Camera with Eyepiece Tube adapter	Central Instrumentation Lab	NA	36,580
4	Biosafety Cabinet-Class II Type A2- (Double Seater)	Central Instrumentation Lab	NA	2,01,910
5	CO2 Incubator & CO2 Cylinder (15 KG & 5KG)	Central Instrumentation Lab	NA	3,71,700
6	3 Lit SS Fermenter	Central Instrumentation Lab	NA	6,49,000
7	Dr.S.Jayakumar	B.Com. General (Shift I)	Basics in Tally	14,943
	R. Elumalai			
	Dr.T.K.Avvai Kothai			
	Dr.S.Manikandan			
	Dr.R.Tamilselvi			
	Dr.K.Umadevi			
	Dr.C.P.Senthilkumar			
	Dr.M.Kavitha			
	Dr.C.Revathy			
	Dr.J.Mahalakshmi			
	S.Shoba			
	Dr.R.Purushothaman			
	Dr.M.Ramila			
	K.Rajeshwari			
	P.Balaji			
	Dr.S.Prabhu			
	Dr.M.Govindarasan			
	Ms.R.Rama			
	M.L.Mayalekshmi			

	Mr.E.Horst Kharis			
	Mr.V.Joel Philip Thomas			
	Dr.C.Senthil Kumar			
	Mrs.S.Amudhalakshmi			
	Dr.D.Leelavathi			
	Mr.M.Prabhu			
	Mr.M.Sankara Narayanan			
	Ms.Suganya			
	Dr.Rajan			
	Dr.S.Ganapathi Bala Subramanian			
	Dr.S.Athilinga Senjith			
8	Dr.C.Vinodhini	B.Com. General (Shift I)	Digitalization	15,47,317
	S.Bindubasini			
	Dr.K.Shanthi			
	Dr.M.Devaraj			
	K.Jayabharathi			
	K.Jayaprasad			
	V.K.Anand			
	P.Christy Heyakumar			
	Dr.D.Elantamilan			
	L.Raja Rajeshwari			
	E.Thilakraj			
	V.Sivaguruvignesh			
	V.Jagadeeswari			
	R.Anand			
	S.Nirmala Devi			
	V.Chellathai			
	M.Mahendrakumar			
	A.Amala Lourthuraj			
	Dr.P.Mahalakshmi			
	Dr.Rajasri			
	Dr.Shakila.M.K			
9	Dr.V.Umamaheshwari			
	A.Susai Raj			
	N.Shunmuga Priya			
	Dr.L.R.S.Kalanithi			
	P.Malathi			
	M.Lavanya			
	G.Tamilvanan			
	Dr.V.Srimathi			
	T.Mangaiyarkarasi			
	Chitra Kesavan			
	T.Lakshmi Pradha			
	T.Ravi Shankar			
	D.Parandhaman			

Dr.R.Ganesh			
Dr.G.Thanga Rajesh			
Dr.S.Amirthalingam			
Dr.S.A.S.Felix			
Dr.I.Shanmuga Priya			
P.Pancy			
Dr.K.Muthu Pandi			
Dr.C.Venkatesan			
M.Maheshwari			
N.Murugammal			
Dr.Bharathi Ravikrishnan			
Dr.S.Sharmila			
T.Subramanian			
D.Rajkumar			
S.Abraham			
G.Suganya			
J.Vijayalakshmi			
Dr.O.Nirmala			
M.Rodhammal			
Dr.R.Geetha			
Dr.S.Sowdeeswari			
Dr.S.Prabhu			
R. Vijayakumar			
Dr.K.Murugan			
Dr.D.Sowmiya			
Guria Choudhry			
Dr.K.Manikandan			
Dr.K.Kulasekar			
Dr.M.Murthi			
Dr.Ulagendran			
T.Harikrishnan			
Dr.S.Venu			
S.Nirmal Raj			
Ms.Jeevaratnam Jane			
R.Akila			
Dr.D.Shoba			
P.Subburaj			
R.Uthra			
Mr.Arun			
Dr.K.Amarasan			
S.Jeyalakshmi			
Dr.T.Senthil Selvi			
Dr.Gayathri Harikumar			
S.Amudhalakshmi			

	R.Monisha			
	Dr.S.Athilinga Senjith			
	Dr.P.Kavitha			
	R.Praveen			
	Dr.G.Prabhu			
	T.Mariselvam			
	S.Ramya			
	R.Senkamalam			
	R.Arun			
	S.Yesu Suresh Raj			
	J.Sripathi			
	Dr.A.Jeya Ganesan			
	Narayani Choubey			
	Dr.Dolly			
	S.Sree Priya			
	C.Radha			
	I.Preethi			
	G.Vijayalakshmi			
	M.Prabhu			
	N.Rajesh Kumar			
	S.Preetha			
	Deepa Mathan			
	M.Bhuvaneshwari			
	Usha Nandhini			
	Dr.M.Thenkovan			
	L.Paul Edison			
	Nishant Shekar			
	Dr.Asha Chatuvedi			
	Dr.Ganapathi			
	Balasubramanian			
	M.Sivaraj			
10	S.Ulaganathan			
	R.Radhika			
	J.Saranya			
	A.Selva Soundari			
	J.Dharshana			
	M.L.Mayalekshmi			
	K.R.Bindhu			
	Dr.P.Rajan			
	J.Jai Samyak			
	M.Senthikumar			
	Anitha Malisetty			
	Archana Karam Chandra			
	Mohan			

11	Dr.S.Jayakumar	Department of Corporate Secretaryship	Tax Planning & Tax Filing	32000
	R.Elumalai			
	Dr.T.K.Avvai Kothai			
	Dr.S.Manikandan			
	Dr.R.Tamilselvi			
	Dr.K.Umadevi			
	Dr.C.P.Senthilkumar			
	Dr.M.Kavitha			
	Dr.C.Revathy			
	Dr.J.Mahalakshmi			
	S.Shoba			
	Dr.R.Purushothaman			
	Dr.Y.Hariprasad Reddy			
	Dr.Suresh George			
	Mr.D.Ranjith Kumar			
	Mr.R.Ashok			
	Dr.P.Kavitha			
	Mr.L.Paul Edison			
	Ms.M.Rodha Ammal			
	Mr.M.Sankara Narayanan			
	Dr.S.Athilinga Senjith			
12	Dr.M.K.Shakila	M.B.A	Transformation Management for a Resilient Economy	2,13,639
	V.Uma Maheswari			
	Mrs.Uthra			
	Dr.S.Sasikumar			
	Dr.C.Murthy			
	Dr.Bharathi Ravikrishnan			
	Dr.T.Srimathi			
	Mr.S.Nagappan			
	M.L.Maylekshmi			
	A.Barkathunisa			
	R.S.M.Jayashree			
	Dr.R.Tamilselvi			
	K.Rajeshwari			
	Dr.M.Ramila			
	P.Balaji			
	Dr.R.Purusothaman			
	Dr.M.Ramila			
	D.Ranjithkumar			
13	Bindu Basini.S	GNCR	Application of Statistics using Excel and SPSS in Research	33,708
	Dr.D.Shoba			
	Dr Gayathri Harikumar			
	Dr. R. Purushothaman			
	Dr. J. Sivashankar			

Dr. D. Ranjith Kumar			
Dr P.V KumaraGuru			
Dr R.Anand			
Nirmala Devi			
K.Muthuvel			
Dr. K.Manikandan			
Dr. J. Sivakumar			
Dr. M. Devaraj			
Dr. Senthil Kumar			
Mrs. Guria Choudhary			
Dr.S.Athilinga Senjith			
Dr.D.Leelavathi			
R.Monisha			
G.Ponselvi			
Dr.R.Rajini Surendranath			
G.Vijayalakshmi Balaji			
E.Gayathiri			
Dr. S. Sharmila			
Dr. P. Mahalakshmi			
Dr. R. Sripriya			
S. Gayathri			
Dr.J.Jesu Arul Christella			
Dr. M. Kavitha			
Mr. P. Balaji			
Dr. K. Murugan			
Dr. M. Thenkovan			
M. Selva Rosary Pushpa			
T. Ahanya			
Dr.J.Punithamalar			
Dr.Uma Devi			

**E-COPIES OF DOCUMENTS AND ACTIVITY REPORTS
(2019-20)**



GURU NANAK COLLEGE (AUTONOMOUS)

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Guru Nanak Salai, Velachery, Chennai – 600042.

School of Sciences

Department of Biotechnology

Event Title	Bio based products & Intellectual property rights	
Category	IPR related workshop	
Date	From : 09.03.2020	To : 09.03.2020
No. of Resource Person	4	
No. of Participants	150	

(1) Report Description :

This workshop is aimed to inculcate Entrepreneur skills among students and to create the IPR awareness

(2) Report

(3) Bio-based products and intellectual property rights is a workshop organized by the Department of Biotechnology, Guru Nanak College on 9th of March, 2020. The aim of this workshop is to provide an insight to the student community about the various Entrepreneur opportunities available for student community. Dr. D.Sudhakaran, General Manager, "The Golden Jubilee Biotech Park for Women", SIPCOT-IT Park, Siruseri, Chennai; was the Chief Guest. He spoke about the commercialization of products and also about the Tamil Nadu Government's largest incubating center at TICEL Park. Dr. Bharathi Ravikrishnan, Assistant professor and Head (i/c), welcomed the gathering and introduced the theme to the participants. The Chief Guest spoke in detail about the Women incubatees of TICEL Park. This inaugural session was followed with the tea break. The next session speaker was Ms. Vidhya Amarnath, Managing Director, Paterson Energy, Pvt., spoke "Sustainable utilization of plastics". She is an entrepreneur and she owns a company in which the plastic waste is converted into bio-diesel. She addresses the students about the need for the research and how to mitigate the pollution

Her session was followed with the lunch break and during the third session, Mrs. K.Sitalakshmi, Coordinator, Adyar, self-help group, Chennai, conducted the workshop for students about the chocolate making (both white and cocoa based). She also demonstrated about the various tips related to wrapping the chocolates. She also gave the basic recipe chart for the students, which was later circulated to students through as what's app text. The Valedictory session was presided by Dr. Subhendu Chakrabarti, Chief Scientist and Head, IP & Knowledge-Portfolio, CSIR-CLRI, Adyar. He spoke about IPR and its needs among students. About 200 students of Department of

Biotechnology (I, II, III B.Sc.), 15 students from the Department of Advanced Zoology and Biotechnology participated in this event and were benefitted.

The valedictory session was followed by the student exhibition- "CLAWS". The invite for this exhibition was extended to Departments of Advanced Zoology, Plant Biology and Biotechnology, Chemistry. The students of both Biotechnology and UG Students of Advanced Zoology and Biotechnology, demonstrated the microbial based Citric acid, Lipase, Amylase, Lipase, Siderophore and Antibiotic production with live exhibits. The students explained both up-stream and down-stream process of citric acid, amylase, lipase and for the siderophore and antibiotic production, they explained the up-stream process and the siderophore production was demonstrated on CAS agar and Antibiotic production was demonstrated by Antibiotic well diffusion process against *E.coli* and *Staphylococcus aureus* by using Muller Hinton agar. For these production all the microbial isolates were isolated from soil sample outside the Department of Biotechnology, Guru Nanak College. The exhibits were visited by all the invitees of the workshop and students were appreciated.

(4) Invitation Copy

INAUGURATION

09.30 a.m.	Lighting of the Lamp	Dignitaries
09.35 a.m.	Prayer Song	Students choir
09.40 a.m.	Welcome Address and Felicitation	Mr. R. Anand, Dean Skill Development
09.50 a.m.	Theme of the Programme	Dr. Bharathi Ravikrishnan, HOD i/c
10.00 a.m.	Introduction of the Chief Guest	Dr. P. Mahalakshmi, Asst. Professor
10.10 a.m.	Inaugural Address	Dr. D. Sudhakaran, General Manager, The Golden Jubilee Biotech Park for Women, SIPCOT-IT Park, Siruseri, Chennai.
10.40 a.m.	Vote of Thanks	Dr. M. Mahendrakumar, Asst. Professor

TECHNICAL SESSION 1

11.00 a.m.	Introduction of the Speaker	Mr. A. Amala Lourthuraj
11.05 a.m.	Ms. Vidya Amarnath	Managing Director, Paterson Energy, Pvt.,
	Topic:	"Sustainable Utilization of Plastics"

TECHNICAL SESSION 2: WORKSHOP

12.00 p.m.	Introduction of the Resource Person	Ms. K. Priyadharshini, Guest Faculty
	Topic:	"Chocolate making" by Mrs. K. Sitalakshmi, Coordinator, Adyar Self Help Group, Chennai

Lunch Break: 1.15 p.m.to 2.00 p.m.

VALEDICTION

02.00 p.m	Prayer Song	Students choir
02.05 p.m	Welcome Address	Dr. Gunita Arun Chandhok, VP Shift-II
02.10 p.m	Report of the Programme	Dr. M. Mahendrakumar, Asst. Professor,
02.15 p.m	Introduction of the Chief Guest	Mr. A. Amala Lourthuraj, Asst. Professor
02.20 p.m	Valedictory Address	Dr. Subhendu Chakrabarti, Chief Scientist & Head, IP & Knowledge Portfolio, CSIR-CLRI, Adyar, Chennai
03.00 p.m	Vote of Thanks	Ms. K. Priyadharshini, Guest Faculty

Thank you

(5) Photos



**Dr. D.Sudhakaran, General Manager, SIPCOT-IT Park, Siruseri, Chennai addressing the Students
on Bio-based products and intellectual property rights.**



Mrs. K.Sitalakshmi, Coordinator, Adyar, Self-help Group, Chennai, explaining Students about the chocolate making (both white and cocoa based).



Duplicate Copy
TAX INVOICE JSC-386/19-20

Date July 12, 2019
Due Date August 11, 2019
P.O. Date July 02, 2019

JANAKI SCIENTIFIC COMPANY

📍 No: 45/1, Warren Square,
Warren Road, Mylapore,
Chennai, Tamil Nadu (TN - 33), PIN Code 600004,
India
☎ +91 44 2461 7626
@ jascosak@yahoo.com
i GSTIN: 33AFEP2520G1ZB

Bill to:

GURU NANAK EDUCATIONAL SOCIETY
📍 GURU NANAK COLLEGE (AUTONOMOUS),
VELACHERY,
Chennai, Tamil Nadu (TN - 33), PIN Code 600042,
India
i Place of Supply: TN (33)
GSTIN: 33AAATG0187E1Z4

NO	PRODUCT / SERVICE NAME	HSN/SAC	QTY UOM	UNIT PRICE	CGST	SGST	AMOUNT
1	Magnus Inverted Tissue Culture Trinocular Microscope(OLY-INVI- MAG) MAGNUS	9011	1 No	1,27,000.00	11,430.00 9.00%	11,430.00 9.00%	1,49,860.00
2	Phase Contrase Objective 40x For INVI(OLY-Ph.con-40x-INVI) MAGNUS	9012	1 No	28,000.00	2,520.00 9.00%	2,520.00 9.00%	33,040.00
3	Attachable Mechanical Stage FOR INVI(OLY-Mech.Stage X-Y) MAGNUS	9012	1 No	24,300.00	2,187.00 9.00%	2,187.00 9.00%	28,674.00
4	Terasaki Holder, 38mm Dia(for INVI) (OLY-TERA.Holder-INVI) MAGNUS	9012	1 No	3,700.00	333.00 9.00%	333.00 9.00%	4,366.00
5	Petridist Holder,38mm Dia Slide(for INVI)(OLY-PD Holder-INVI) MAGNUS	9012	1 No	3,250.00	292.50 9.00%	292.50 9.00%	3,835.00
6	Glass Slide holder 54mm(for INVI) (OLY-GL.SLI-HOL D-INVI) MAGNUS	9012	1 No	3,250.00	292.50 9.00%	292.50 9.00%	3,835.00



Duplicate Copy
TAX INVOICE JSC-386/19-20

Date July 12, 2019
Due Date August 11, 2019
P.O. Date July 02, 2019

JANAKI SCIENTIFIC COMPANY

✉ No: 45/1, Warren Square,
Warren Road, Mylapore,
Chennai, Tamil Nadu (TN - 33), PIN Code 600004,
India
☎ +91 44 2461 7626
✉ jascosak@yahoo.com
i GSTIN: 33AFEP2520G1ZB

Bill to:

GURU NANAK EDUCATIONAL SOCIETY
✉ GURU NANAK COLLEGE (AUTONOMOUS),
VELACHERY,
Chennai*, Tamil Nadu (TN - 33), PIN Code 600042,
India
i Place of Supply: TN (33)
GSTIN: 33AAATG0187E1Z4

NO	PRODUCT / SERVICE NAME	HSN/SAC	QTY UOM	UNIT PRICE	CGST	SGST	AMOUNT
7	MagCam DC-5- Camera(with Eyepiece Tube Adapter)(OLY- Camera-DC5) MAGNUS	8525	1 No	31,000.00	2,790.00 9.00%	2,790.00 9.00%	36,580.00
TOTAL		@18%	7.00 7	220500.00 220500.00	19845.00 19845.00	19845.00 19845.00	260190.00 260190.00

Total: ₹ Two Lakh Sixty Thousand One Hundred Ninety Only

AUTHORIZED SIGNATORY

4-

Note:
Declaration

Laboratory chemical are not meant for any medicinal or food use
We declare that this invoice shows the actual price of
the goods described and that all particulars are true and correct.
Subject to Chennai Jurisdiction
E & O.E

TOTAL BEFORE TAX 2,20,500.00
TOTAL TAX AMOUNT 39,690.00
ROUNDED OFF 0.00
TOTAL AMOUNT ₹ 2,60,190
AMOUNT DUE ₹ 2,60,190

Entered into Stock register and installed.
Page 2 of 2
Banti
2-8-19

Services to Science Since 1962

The I.L.E. Co.
TAX INVOICE

GSTIN : 33AGQPS1310R1ZY

(Subject to Chennai Jurisdiction.)

21, Poomagal Main Road,
Ekkattuthangal, Chennai 600 032.

Phone: 22251745, 22252757, 22254121

Email : ileco@vsnl.net

ilecochennai@gmail.com

Branches at: Coimbatore, Madurai, Bangalore, Trivandrum

Invoice No. : HO/12878

D.C.No. HO/11305

Invoice Date : 24-09-2019

D.C.Date 24.09.19

Your Order No PURCHASE ORDER OF BIOSAFETY CABINET

Your Order Dt. : 08.08.2019

BILL TO :
THE PRINCIPAL,
GURUNANAK EDUCATIONAL SOCIETY (COLLEGE)
VELACHERY,
CHENNAI-600 042.

DELIVERY ADDRESS :

DEPT OF BIOTECHNOLOGY

GSTIN : 33AAATG0187E1Z4

S.No	Code	Product Name	HSN	Qty	Pack	Rate	Gross	Dis. %	Taxable Amount	CGST %	SGST %	Amount
1	CBS0900-II/A2	BIOSAFETY CABINET - CLASS II TYPE A2 - 3x2x2'	8418	1	1NO.	171110.00	171110.00	0.0	171110.00	9.00	9.00	201999.90

BANK DETAILS :

BANK NAME : Bank of Baroda
A/C No : 05260500000083
IFSC CODE : BARB0ECSTRE

Rupees :

TWO LAKH ONE THOUSAND NINE HUNDRED AND TEN ONLY



TOTAL :

1,71,110.00

DISCOUNT :

0.00

TAXABLE VALUE :

171110.00

CGST :

15,399.90

SGST :

15,399.90

NET AMOUNT :

2,01,910

Sales Tax Certificate: Certified that the goods for which Sales Tax has been charged in this bill, have not been exempted under the GST Act or the rules made there under and the amount charged on account of Sales Tax on those goods are correct and are not more than what is payable under the provisions of the relevant Act or rules made thereunder.. Certified further that we, THE I.L.E.Co. Chennai-32 are registered as dealer under GSTN.33AGQPS1310R1ZY for the purpose of Sales Tax.

Regd. Office: 59M.K.N.Road, Guindy, Chennai-32.

For **The I.L.E.Co**

Authorised Signatory

TAX INVOICE

Buyer

M/s Gurunanak Educational society

The principal, Gurunanak College,

Velachery road, , Chennai ,

Tamil Nadu, 600042

India

GSTIN / UIN: **33AAATG0187E1Z4**

Delivery Address:

Department of

Biotechnology,

Gurunanak College,

Velachery road, , Chennai

,

Tamil Nadu, 600042

India

Invoice No

EPS/INV/068/19-20

Invoice Date

29/08/2019

PO No.

Purchase Order

PO Date

02/07/2019

Payment Terms

No	Description	HSN / SAC	Tax	Qty	Rate	Disc%	Amount
1	CO2 INCUBATOR Capacity :- 80 Litres Dimension :- (450 x 450 x 415)mm Capacity :- 80 Litres Dimension :- (450 x 450 x 415)mm Controller :- 1. Microprocessor PID Digital CO2 Controller 2. Microprocessor PID Digital Temperature control 3. Co2 - 5% (Level Percentage) 4. Temp Controller :- 37°C (Incubation Maintenance) 5. Co2 Cylinder (15 k.g) Gas supplied. 6. Co2 Cylinder (5 k.g) Gas supplied 7. Air Vent Filter Brand :- EPS Model/CAT No: EPS-CO2-80/		GST @ 18%	1	₹ 4,20,000.00	25 %	₹ 3,15,000.00

Amount in Words: INR Three Lakh Seventy One
Thousand Seven Hundred

Bank Details

Beneficiary Name: **EPS BIOSOLUTIONS**

Bank Name: State Bank Of India

Bank Branch: ByePass road, Velachery

Account No: 32461392824

IFSC Code: SBIN0011718

Gross Total : ₹ 3,15,000.00

Output State Tax @ 9% on ₹ 3,15,000.00 : ₹ 28,350.00

Output Central Tax @ 9% on ₹ : ₹ 28,350.00

3,15,000.00

Round Off Value : ₹ 0.00

Grand Total : ₹ 3,71,700.00

INVOICE

Inv. No. 133	Date: 15.11.2019	DC. No/Date: 133 / 15.11.2019	ORIGINAL / DUPLICATE / TRIPLICATE / QUADRUPLICATE / EXTRA COPY
CIN : U33112TN1991PTC021801	GSTIN : 33AAACS8529H1ZB	PAN : AAACS8529H	HSN CODE : 9032 20 90
NAME OF THE COMMODITY: FERMENTER FERMENTER PARTS			PREPARED BY : R. GOWRI

DETAILS OF THE CONSIGNEE

To,
M/s. GURU NANAK EDUCATIONAL SOCIETY
GURU NANAK COLLEGE,
NO. 161/63, GURU NANAK SALAI,
VELACHERY.
CHENNAI - 600 042

CONSIGNEE GST No. **33AAATG0187E1Z4**

PURCHASE ORDER No. **003** DATE : **02.07.2019**

SCIGENICS REF No.

DOCUMENTS THRO'

L.R. No.

S.No.	ITEM DESCRIPTION	QTY/ PACKAGES	UNIT PRICE (₹)	TOTAL PRICE (₹)
1	BIOFARM - LS2 : 3 LIT. INSITU-STERILISABLE FERMENTER WITH PH MEASUREMENT SYSTEM, PLC CONTROL SYSTEM UTILITIES : AIR COMPRESSOR AND STEAM GENERATOR	1 No.	5,50,000.00	5,50,000.00

Certified that the particulars given above are true and correct and the amount represents the price actually charged and that there is no flow of additional consideration of money either directly or indirectly from the buyer.

TOTAL	₹	5,50,000.00
SGST 9.0%	₹	49,500.00
CGST 9.0%	₹	49,500.00
	₹	

Total amount in words: **Rupees Six lakh Forty Nine Thousand Only**

TOTAL AMOUNT	₹	6,49,000.00
TOTAL (ROUNDED)	₹	6,49,000.00

DATE/ TIME OF PREPARATION: **15.11.2019 - 13.00 Hrs.**

DATE/ TIME OF CLEARANCE : **15.11.2019 - 13.30 Hrs.**

TERMS & CONDITIONS

- Interest @ 24% will be charged on overdue bills.
- Disputes are subjected to Chennai Jurisdiction. E & O.E

BANK DETAILS

FEDERAL BANK
A/C No. 13855500002283
IFSC : FDRL0001386

FOR SCIGENICS (INDIA) PVT. LTD

AUTHORIZED SIGNATORY

Registered Office: Scigenics (India) Pvt. Ltd., Plot No. H- 4,5,6, 3rd Cross Street, Nehru Nagar, Perungudi, Chennai - 600 096.



NAME OF THE EVENT	Train the Trainer on “Basics in Tally”
DATE OF THE EVENT	12.07.2019 to 17.07.2019
ORGANIZED BY	PG & Research Department of Commerce
IN ASSOCIATION WITH	NIL
PLACE OF THE EVENT	Guru Nanak College
NO. OF PARTICIPANTS	30

REPORT

A Faculty Development Programme on “Train the Trainer-Tally Basics” has been organized by the PG & Research Department of Commerce to enrich the computing skills of faculty members of Commerce and Management Departments of both Shift-I and Shift-II. On 12th July 2019, the FDP was inaugurated by Dr. R. Ramanan, Principal, Presidency College and Joint Director of Collegiate Education (FAC), Chennai Region as the Chief Guest of FDP. In his inaugural address, he enlightened the audience about the need of FDPs which will enable the faculties to enrich their knowledge in the relevant field. He spoke about the importance of Tally and SPSS packages. The Rev. General Secretary and Correspondent presented the Special Address and motivated the faculty members to take active part in FDP and offered wishes to the Department for the successful conduct of FDP. The welcome Address was given by the Principal, Dr.M.G.Ragunathan to the gathering. The Head, Dr.S.Jayakumar introduced the Chief Guest. Dr.M.Kavitha, Assistant Professor of Commerce, the Trainer of the FDP, explained about the Course Objectives and Design of the FDP which is 30 hrs. Programme which

includes Lab Exercises and Home Assignments. The Programme was ended with a Vote of Thanks by Dr. S.Manikandan, Associate Professor, PG & Research Department of Commerce.

PHOTO



Dr.M.G.Ragunathan , felicitating the staff members attending the FDP on “Train the Trainer-Tally Basics.



GURU NANAK COLLEGE (AUTONOMOUS)

Affiliated to University of Madras and Re-Accredited at "A" Grade by NAAC

Guru Nanak Salai, Velachery, Chennai – 600042.

NAME OF THE EVENT	INTERNATIONAL CONFERENCE ON “TRANSFORMATION IN INDUSTRY IN AN ERA OF DIGITALIZATION: CHALLENGES & OPPORTUNITIES”
DATE OF THE EVENT	28.09.2019
ORGANIZED BY	PG & Research Department of Commerce
IN ASSOCIATION WITH	NIL
PLACE OF THE EVENT	Guru Nanak College
NO. OF PARTICIPANTS	600

REPORT

PG & Research Department of Commerce is one of the most vibrant departments of the college and actively contributed to the growth of our institution. The department is really blessed by our patron Saint Shri Guru Nanak Devji as we organized the International Conference during his 550th Birth Anniversary on the topic “Transformation in Industry in an era of digitalization; Challenges and Opportunities” on 28th September 2019. **Mr. Manjit Singh Nayar**, General Secretary and Correspondent Presided over the Conference and in his presidential address, elucidated about the necessity of Digitalization in the business. **Dr.M.G.Ragunathan**, Principal welcomed the gathering and quantified about the growth of the college. **Dr.S.Manikandan**, Convener of the conference put forth the theme and highlighted the convention of digital technology into business strategies. **Dr.Balwinder Singh**, Professor, Guru Nanak Dev University, **Punjab** was the Guest of Honour for the conference and delivered the keynote address. **Dr. Karma Drukpa**, Dean of Righter College, **Bhutan**, **Dr.Muwafaq M. Dandan**, Professor, Amman University College, **Jordan** and **Mr.J.Raja Ramesh**, Project Director, Marine 8 Pvt Ltd. from **Singapore** were the Chief Guests of the Conference and delivered their special addresses. Key speakers from different parts of India in different arenas such as Army Personnel, Government officials, Educationists and ICT experts deliberated on the issues and challenges on Digitalization in

the industrial transformation. Around 600 participants -Delegates from various states, Professors of Various colleges and universities all over India, Industrial Delegates, Research Scholars and Postgraduate Students were enlightened by the valuable discussions.

PHOTO



Organizing Committee along with General Secretary and Correspondent, Principal, Chief Guests and Resource Persons



GURU NANAK COLLEGE (AUTONOMOUS)

Affiliated to University of Madras and Re-Accredited at "A" Grade by NAAC
Guru Nanak Salai, Velachery, Chennai – 600042.

NAME OF THE EVENT	ONE DAY WORKSHOP ON TAX PLANNING & TAX FILING
DATE OF THE EVENT	24.09.2019
ORGANIZED BY	Department of Corporate Secretaryship
IN ASSOCIATION WITH	NIL
PLACE OF THE EVENT	Guru Nanak College
NO. OF PARTICIPANTS	200

REPORT

The Department of Corporate Secretaryship, Guru Nanak College, Velachery, Chennai has conducted “**ONE DAY WORKSHOP ON TAX PLANNING & TAX FILING.**” on 24th September 2019 (Tuesday). The principal of the College **Dr.M.G.Ragunathan** gave the Welcome address and graced the occasion. **Shri Rajib Kumar Hota , IRS** (Former – Chief Commissioner of Income Tax (Kolkata) graced the occasion as the chief guest and delivered the keynote on the inaugural session of the today’s programme, and he spoke about various aspects of tax savings, TDS, advanced tax payments. **CA. Sreevathson (Founder of Bharadwaj academy)** was invited as the recourse person of the technical session -I and he delivered his speech on the tax planning for the individuals and various avenues in which an assessee can park their income and save their tax liability and also he has highlighted benefits of the various provisions of the income tax act 1961 with respective tax planning. **Shri K.V. Sathyamurthy, Senior Tax consultant and Advisor of M/S Tejas Business Solutions,** Chennai has invited as the recourse person of the technical session-II, has delivered the information about the Income Tax filing (ITR) both “Manual and e- filing” and also emphasizes the non-compliance of due date of filing and returns of the penalty and other fines and fee. The faculty members and

students from various city based colleges attended the workshop and graced the occasion and took part in the panel discussion with the resource persons.

PHOTOS



Inaugural Session



Panel Discussion



Felicitation of Chief Guest



Valedictory Session



**Organizing Committee Members with Principal
(Staff)**



GURU NANAK COLLEGE (AUTONOMOUS)

Affiliated to University of Madras and Re-Accredited at "A" Grade by NAAC
Guru Nanak Salai, Velachery, Chennai – 600042.

NAME OF THE EVENT	National conference on “Transformation Management for a Resilient Economy”
DATE OF THE EVENT	18.02.2019 & 19.02.2019
ORGANIZED BY	MBA, B.Com Honors and B.Com Bank Management
IN ASSOCIATION WITH	GMRAF
PLACE OF THE EVENT	Guru Nanak College
NO. OF PARTICIPANTS	127

REPORT

Departments of MBA, B. Com Bank Management and B. Com Marketing Management organized a National Conference on 27th September 2019. The response for this National Conference has been overwhelming. The college have received response from many renowned universities like, University of Madras, Annamalai University, Periyar University , Uttarakhand Technical University, PRIST Deemed to be university, IASE Deemed to be university , Bharathidasan University, Jain deemed to be university ,Madurai Kamaraj University, , Bharathiar university, Mother Teresa university, Thiruvalluvar University, Institute for Financial Management and Research popularly known as IFMR, Manonmaniam Sundaranar university, Tirunelveli, and a number of prominent city colleges and colleges across India. Dr. M G Ragunathan, Principal of Guru Nanak College welcomed the resource persons and the delegates. **Dr. Abraham Koshy**, Ex. Professor of Marketing at IIM Ahmedabad, and the author of the world’s best-selling book *Marketing Management – A South Asian Perspective* with the legendary Marketing *Guru*, Prof. Philip Kotler delivered the Inaugural address and technical session 1 on Changing Paradigm in Marketing”. **Mr.Balpreet Singh** Assistant Vice President-Enterprise Applications,Reliance Industries Limited, Mumbai as a Guest of Honour delivered the keynote address and technical session 2 on Business Transformation: Digital Perspective. **Dr.Thillai Rajan.A** Professor, Department of Management Studies, Indian Institute of Technology, Madras was the chief guest of the valedictory session and deliberated onInnovation and entrepreneurship for a Resilient Economy”.

PHOTO



Dr. Abraham Koshy, Ex. Professor of Marketing at IIM Ahmedabad & Mr. Balpreet Singh, Guest of Honour are releasing the Proceedings of the Conference.



GURU NANAK COLLEGE (AUTONOMOUS)

Affiliated to University of Madras and Re-Accredited at "A" Grade by
NAAC

Guru Nanak Centre for Research

Event Title	Two Day Workshop on "Applications of Statistics Using Excel and SPSS In Research" (Faculty Development Programme)	
Category	Faculty members	
Date	From : 9.03.2020	To : 10.03.2020
No. of Resource Person	1	
No. of Participants	35	

1. REPORT

The ultimate aim of the workshop is to create awareness about the SPSS tool in research among the faculty members. For this we decided to invite the SPSS Package expert, Dr. K. Marimuthu, Faculty of Applied Sciences, Department of Biotechnology, AIMST University, Bedong – Semeling, Semeling Kedeh Darul Aman, Malaysia to share his experience. Around 36 faculty members were benefitted from both Shift-I and II by attending this workshop.

The Guru Nanak Centre for Research conducted two-day workshop on "Applications of Statistics using Excel and SPSS in research" (faculty development programme) on 9th & 10th March, 2020 by Dr. K. Marimuthu.

Session I:

In the first session he explained about the basic concepts and application of Statistics and SPSS in research by power point presentation. He added the Excel functions, graphical presentations, data analysis using excel, data entry, variables, recoding, computation, split files, frequency analysis and descriptive statistics.

Session II:

During this session the faculty members were given hands on training. He taught about the following techniques such as Normality assumption, Graphical representations, Cross Tabulation & Chi-Square Test, Kappa Test, Mc’Nemars Test, Somers D Test, Binomial Test etc., Mean while some of the faculty members were raised questions and doubts in the above

techniques. The resource person clarified their doubts on the spot itself.

Session III:

In this session the participants learned about parametric methods, t-tests, one sample t-test, two sample Independent t-test, Paired t-test Analysis of Variance, Two Way Analysis of variance, Three Way ANOVA, Repeated Measures of ANOVA, ANCOVA and MANOVA.

Session IV:

During this session the resource person taught about the Correlation Analysis (Pearson, Spearman, Partial, Kendall's tau b Correlation, Linear regression, Probit Analysis, Reliability Analysis (Cronbach's Alpha α). The participants also learned about Non parametric methods, Mann-Whitney U Test, Wilcoxon Signed Rank Test, Kruskal-Wallis Test, Median Test, Friedman Analysis, Cohrans Q Test. He also explained Multiple Regression Analysis, Factor Analysis.

2. Brochure

Programme Schedule

Time	Agenda
Day 1: 09th March, 2020 (Monday)	
10.00-10.30 am	Inauguration
10.30 - 11.30 am	Basic Concepts and Application of Statistics in Research
11.30 - 11.45 am	Tea Break
11.45 - 01.00 pm	Excel functions, Graphical Presentation, Data Analysis using Excel - Hands on Exercise
01.00 - 02.00 pm	Lunch
02.00 - 03.30 pm	Introduction to SPSS - Data Entry, Define variables & Labels, Recoding, Computation, Split files, Frequency Analysis, Descriptive Statistics
03.00 - 03.45 pm	Tea Break
03.45 - 06.00 pm	Testing Data Normality Assumption, Graphical Representation, Cross Tabulation & Chi-Square Test, McNemar Test, McNemar Test, Somers D Test, Binomial Test
Day 2: 10th March, 2020 (Tuesday)	
09.00 - 10.00 am	Parametric methods: t-tests, One sample t-test, Two sample Independent t-test, Paired t-test, Analysis of Variance
10.00 - 11.00 am	Two Way Analysis of Variance, Three Way ANOVA, Repeated Measures of ANOVA, ANCOVA, MANOVA
11.00 - 11.15 am	Tea Break
11.15 - 01.00 pm	Correlation Analysis (Pearson, Spearman, Partial correlation, Kendall's tau b Correlation, Linear regression, Probit Analysis, Reliability Analysis (Cronbach's Alpha α))
01.00 - 02.00 pm	Lunch
02.00 - 03.30 pm	Non parametric methods: Mann-Whitney U Test, Wilcoxon Signed Rank Test, Kruskal-Wallis Test, Median Test, Friedman Analysis, Cochran's Q Test.
03.30-03.45 pm	Tea Break
03.45-04.30 pm	Multiple Regression Analysis, Cluster Analysis, Factor Analysis
04.30 pm	Valedictory



GURU NANAK CENTRE FOR RESEARCH

GURU NANAK COLLEGE (AUTONOMOUS)
 Re-Accredited at 'A' Grade by NAAC
 (Affiliated to the University of Madras)
 Guru Nanak Sahib, Velachery, Chennai - 42



Organizes

TWO DAY WORKSHOP

ON

"APPLICATION OF STATISTICS USING EXCEL AND SPSS IN RESEARCH"
(FACULTY DEVELOPMENT PROGRAM)

9th & 10th March, 2020

About GNC

Guru Nanak College was founded in 1971, which is liberally carved out of the Raj Bhavan grounds. *Pro Bono Publico* is the motto of the college which means "For the benefit of all". The 25 acre lush green campus provides an ideal setting for the intellectual pursuits of students and academicians. With nearly five decades of existence, the College has recorded exponential growth. It is a full-fledged Co-educational, Post Graduate and Research Institution affiliated to the University of Madras with 23 UG courses, 9 PG courses, 2 MPhil Programmes and 9 Ph. D programmes. As of now, the student strength is 6475. The College is re-accredited at 'A' Grade in the third cycle by NAAC in 2018. The College has on its staff a team of dedicated and committed members who strive to instill in the students, the qualities of leadership and service mindedness. The College offers opportunities for the holistic development of the body and mind of young people.

About GNCR

The "Guru Nanak Centre for Research" (GNCR) was initiated in the year 2019 to commemorate the 550th birth anniversary of Shri Guru Nanak Devji. It was started in a view to bring together academicians, researchers and research scholars in the fields of Commerce, Economics, Management Studies, Social Sciences, Botany, Biotechnology, Biochemistry and Microbiology by providing a platform for ground breaking research. GNCR aims at paving the way in the pursuit of basic, applied and advanced research as well as fostering extension activities in various fields. GNCR also encourages student research activities under the "Student Research Club" which engages the undergraduate students into active research. The aim is to provide a platform for young minds to nurture their ideas related to research in all disciplines and motivate them to think and apply the theoretical concepts. G. S. Gill Research Institute a wing of GNCR named after the Lt. Col. G. S. Gill, Founder of Guru Nanak College is an Autonomous Research Institute involving in exclusive research on insect-plant interaction. GNCR provides an opportunity to explore new avenues and approaches in increasing the visibility of research.

About SPSS

SPSS is a widely used statistical program used for data analysis in social sciences, biological and health sciences. SPSS is a powerful suite of data analytics, reporting and modeling software. This workshop will be useful for researchers and post graduate students in different disciplines such as medicine, public health, life sciences, social sciences, allied health professions and other arts and science professionals. This workshop is designed to introduce the principles of biostatistics to researchers who are in need of statistical application and data analysis. This course is also aimed to introduce basic concepts of statistics, demonstrate some of the basic and advanced statistical methods used in biological sciences, health sciences, medical sciences, and sociological sciences research, to improve the participant's ability to understand and use appropriate statistical tests and analyze the data.

OBJECTIVE OF THE WORKSHOP

1. To provide the participants with the skills to use SPSS, a statistical software program and Excel for processing and analyzing survey and experimental data.
2. To introduce the basic functions and application of SPSS and Excel.
3. To introduce participants to the basics of statistics by using Excel and SPSS Statistics, and learn how to perform descriptive statistics and graphics; and basic inferential statistics for comparison of means and correlations, regression and multivariate analysis.

ORGANIZING COMMITTEE MEMBERS

PATRON – Dr.M.G.Ragunathan, Principal

CONVENER & ORGANIZING SECRETARY – Dr.J.Jayanthi,
Dean – Research

ADDRESS FOR CORRESPONDENCE

Dr.J.Jayanthi, Dean – Research, Guru Nanak Centre for Research,
Guru Nanak College(Autonomous), Velachery, Chennai- 42. Mobile:
+919003053668. E-mail: research@gnurumanakcollege.edu.in

Invitation


Guru Nanak Centre for Research
GURU NANAK COLLEGE (AUTONOMOUS)
VELACHERY, CHENNAI - 42

Cordially invites you to the

TWO DAYS WORKSHOP

ON

"APPLICATION OF STATISTICS USING EXCEL AND SPSS IN RESEARCH"

By

Prof. Dr. K. Marimuthu
Department of Biotechnology
Faculty of Applied Sciences
AIMST University, Bedong - Semeling
08100 Semeling Kedah Darul Aman,
Malaysia

9th & 10th March, 2020

Time : 10.00 a.m.
Venue : Inauguration - Lt. Col. G.S. Gill Hall,
Guru Nanak College Pavilion
Technical Sessions: Computer Lab - Room No. MG4

Dr. M. G. Ragunathan
Principal

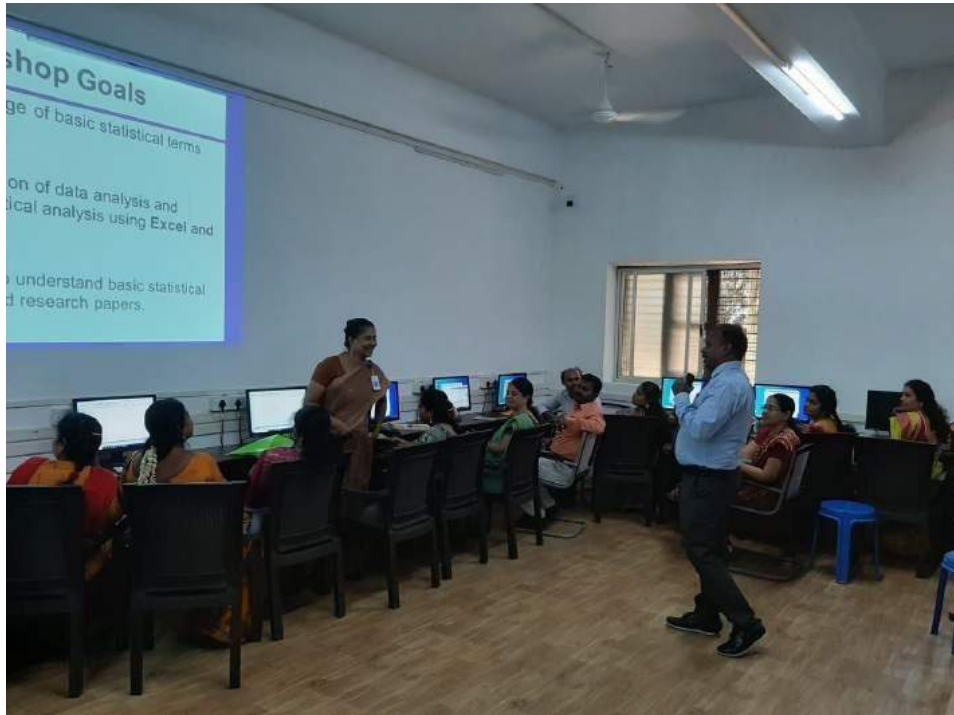
Sardar Manjit Singh Nayar
General Secretary & Correspondent

Sardar Rajinder Singh Bhasin
President

Photos



Dr. K. Marimuthu, Resource person giving inputs on Applications of Statistics using Excel and SPSS.



Dr. K. Marimuthu, Resource person giving practical inputs on Applications of Statistics using Excel and SPSS.



Organizing Committee with Faculty participants

Certificate

