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**KONGU ARTS AND SCIENCE COLLEGE**  
(Autonomous)  
ERODE- 638 107.

**INTERNAL QUALITY ASSURANCE CELL (IQAC)**

**SUBMITTED TO THE CORRESPONDENT FOR FAVOUR OF APPROVAL PLEASE:-**

Date: 29.01.2020

Respected Sir,

Sub: Faculty Exchange Programme - Permission requested - reg.

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We wish to bring to the Correspondent's kind notice that we would like to arrange a Faculty Exchange Programme as per MoU signed with Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore from 5<sup>th</sup> February 2020 to 7<sup>th</sup> February 2020. In this regard, we request you to kindly permit four of our faculty members (Department of Commerce, Corporate Secretaryship with CA and PA, Computer Applications UG, and Computer Science UG) to attend the programme and to claim the admissible expenditure for the same. Further, we request you to grant permission to avail the boarding and lodging facilities in our campus for four faculty members from Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore.

-H.V. 29.1.20  
IQAC- Coordinator  
(H.VASUDEVAN)

J. S. 29/1/2020  
OFFICE SUPERINTENDENT

29/1/2020  
ADMINISTRATIVE OFFICER

29/01/2020  
PRINCIPAL

Correspondent  
CORRESPONDENT



Dr. N. RAMAN  
PRINCIPAL,  
KONGU ARTS AND SCIENCE COLLEGE  
(AUTONOMOUS)  
NANJANAPURAM, ERODE - 638 107.



# KONGU ARTS AND SCIENCE COLLEGE

(An Autonomous Institution Affiliated to Bharathiar University, Coimbatore)  
ERODE - 638 107.

Office : 0424 - 2242802, 2242999, 98427 26267



**Dr.N.RAMAN**  
Principal

Date: 04.02.2020

To

The Principal,

Sri Ramakrishna Mission Vidyalaya College of Arts and Science,  
Coimbatore – 641 020.

Dear Sir,

Sub: Faculty Exchange Programme 2020 – reg.

We would like to inform you that we depute the following faculty members for the Faculty Exchange Programme during the first week of February 2020.

S.No.	Name & Designation	Department	Contact No.
1	Mr.A.R.Karthikeyan	Computer Science UG	8973319615
2	Mr.G.Eswaramoorthi	Computer Application UG	9965433555
3	Ms.C.Vidhya	Corporate Secretaryship with CA & PA	8825876520
4	Dr.D.Anbupriya	Commerce	9965960001

Kindly do the needful and oblige.

Thank you

*05/2/2020*  
PRINCIPAL,  
KONGU ARTS AND SCIENCE COLLEGE  
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*Dr. N. RAMAN*  
PRINCIPAL,  
KONGU ARTS AND SCIENCE COLLEGE  
(AUTONOMOUS)  
NANJANAPURAM, ERODE - 638 107.

E-mail : konguarts@kasc.ac.in Website : www.kasc.ac.in

**KONGU**  
Amusing the Best



**SRI RAMAKRISHNA MISSION VIDYALAYA  
COLLEGE OF ARTS & SCIENCE- COIMBATORE - 641 020**

For candidates admitted from academic year 2013 – 2014 onwards under New CBCS

**OPERATION RESEARCH(PROBLEM ONLY)**

**Year : II**  
**Hours / Week: 6**

**Semester : IV**  
**Subject Code : 4ALT4**  
**Credits : 5**

**UNIT I**

**Linear Programming Problem:** Introduction – Mathematical formulation of L.P.P. – Graphical solution method – Simplex method – Method of penalties/ Big-M method – Two phase method.

**UNIT II**

**Transportation problem:** Introduction - finding initial basic feasible solution – moving towards optimality – the transportation algorithm.

**Assignment problem:** Method for solving an assignment problem –Variation of assignment problem – Traveling salesman problem – degeneracy.

**UNIT III**

**Queueing theory:** Introduction - Queueing system – Characteristics of the Queueing system – Operating characteristics of a Queueing system - Classification of queues Poisson queues- (M/M/1) : ( $\infty$ /FIFO) , (M/M/1) : (N/FIFO) , (M/M/C) : ( $\infty$ /FIFO) , (M/M/C) : (N/FIFO).

**UNIT IV**

**Inventory:** Introduction – Inventory control– Cost associated with inventories – Economic lot size problem – Problems of EOQ with shortage allowed.

**Replacement problem:** Replacement of items that deteriorates with time – replacement of items that fail completely.

**UNIT V**

**Networking scheduling by PERT/CPM:** Introduction – Basic concepts - Critical path method – pert calculations – pert algorithm – construction of network – critical path analysis - statistical considerations in PERT.

**TEXT BOOK:**

1. **KantiSwarup, P.K. Gupta, Man Mohan**, Operations Research, Sultan Chand & Sons, 2007, Thirteen Edition.

**REFERENCE BOOKS:**

1. **Prof V.Sundaresan, K.S. Ganapathy Subramanian, K.Ganesan**, Resource Management Techniques, A.R.Publications, 2004, Second Edition.
2. **Handy A.Taha**, Operations Research, CollierMacmillan, Third Edition.



**Dr. N. RAMAN**  
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**SRI RAMAKRISHNA MISSION VIDYALAYA COLLEGE OF ARTS AND SCIENCE  
(Autonomous), Coimbatore.**

**Knowledge Sharing Programme 2019-2020**

Name of the Staff : Mr. A.R Karthekeyan, Assistant Professor of Computer Science.  
 Name of the College : Kongu Arts and Science College (Autonomous), Erode.  
 Duration : 3 Days (05.02.2020 to 07.02.2020)  
 Name of the Programme : B.Sc Computer Science Year : II Semester : VI  
 Title of the Course : Operation Research

S.No	Date	Time & Total Hours	Topic Covered	Unit	Mode of Teaching	Signature of the Faculty
1	05.02.20	10 a.m To 1.00 p.m 3 HOURS	Networks schedule by PERT/CPM Construct Network Rules and Preceding/Successor	V	Black board	A.R. Karthekeyan 05/2/20
2	06.02.20	10 a.m To 1.00 p.m 3 HOURS	Critical Path Method: Network Construction LST, EST, LFT, EFT, Total float, Free float FF, Forward & Backward Pass Calculation	V	Black board	A.R. Karthekeyan 06/2/20
3	07.02.20	10 a.m To 1.00 p.m 3 HOURS	Programme Evaluation Review Technique Variance, Standard deviation	VI	Black board	A.R. Karthekeyan 07/2/20

*C.M.*

Head of the Department



*R. Lakshmi*

Director

*Dr. N. Ramani*

Principal

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**Dr. N. RAMAN**  
 PRINCIPAL,  
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# Sri Ramakrishna Mission Vidyalaya College of Arts and Science

Autonomous Institution Affiliated to Bharathiar University  
Re-accredited by NAAC with 'A' Grade

SRKV Post | Periyanaickenpalayam | Coimbatore - 641 020 | ☎ (0422) 2692461, 8012533914  
Fax: (0422) 2693812 | Email: srmvcascbe@gmail.com | Website: www.srmvcas.org

*Swami Nirmaleshananda*  
Secretary

*Dr.R.Thangavel, M.Sc., M.Tech., M.Phil., Ph.D*  
Principal

Date: 07.02.2020

## A Word of Appreciation - Knowledge Sharing Programme

Respected Mr.A.R Karthekeyan,

On behalf of the Department of Computer Science, Sri Ramakrishna Mission Vidyalaya College of Arts and Science, we appreciate you for the classes taken on the course **Operation Research** for II B.Sc CS students from 05.02.2020 to 07.02.2020 under Faculty Exchange Programme. It was extremely informative.

Once again, thank you for making the programme successful, and we appreciate your continuous support.

*Dr. N. RAMAN*  
Principal



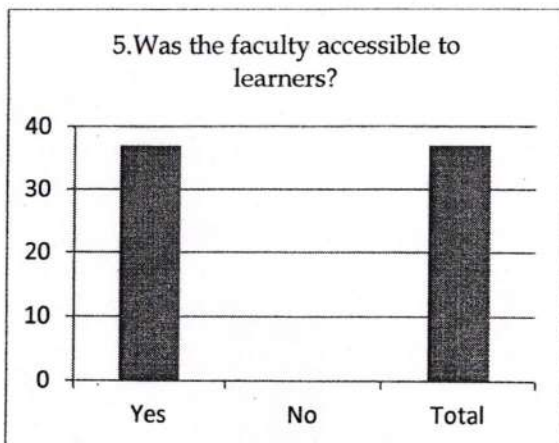
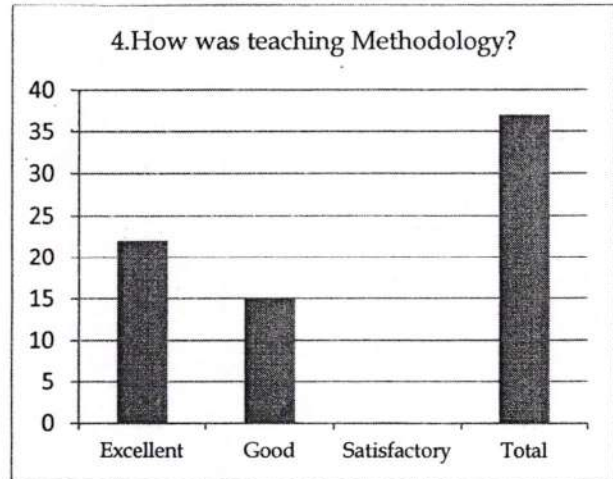
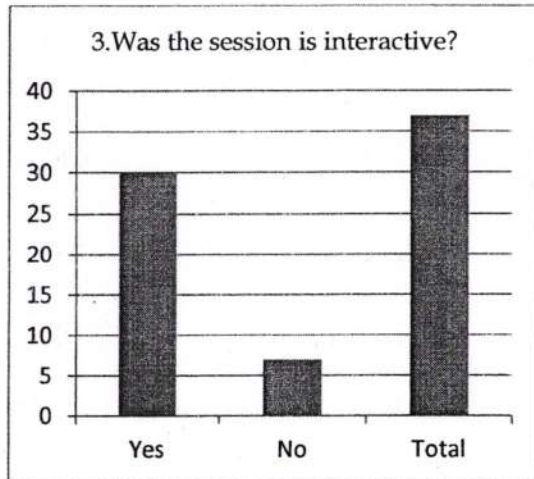
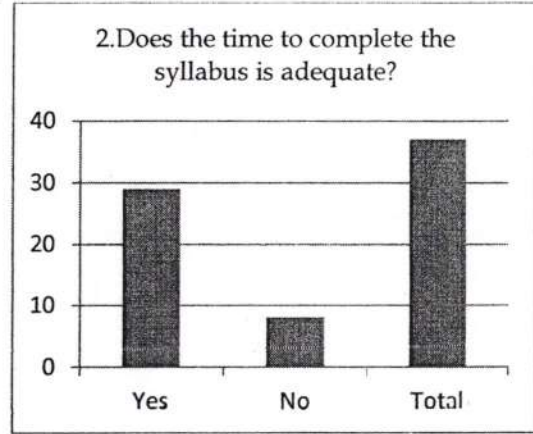
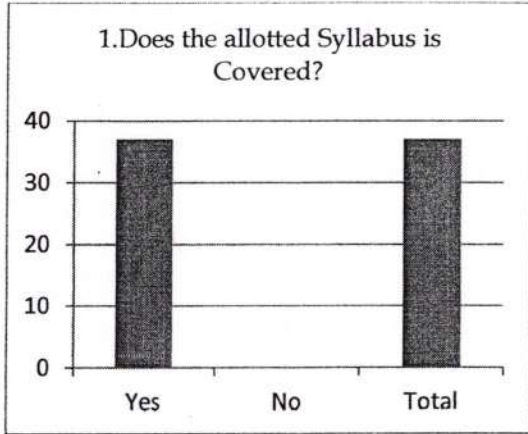
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## FEED BACK ANALYSIS

Staff Name: A.R.Karthekeyan

Class: II B.Sc CS



6. Any other Suggestion?

- Increase duration of class.



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P. Y. J  
 07/02/2020  
 Evaluated by,  
 FEP Coordinator



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2  
5/2/2020

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*Swami Nirmaleshananda*  
Secretary

*Dr.R.Thangavel, M.Sc.,M.Tech., M.Phil., Ph.D*  
Principal

03.02.2020

TO

The Principal,  
Kongu Arts and Science College,  
Erode- 638107

Dear Sir,

Sub: Staff Exchange Programme-2020-Reg

Warm Greetings. As per the schedule we discussed under Staff Exchange Programme the following faculty members of our college will handle the classes for your Commerce and Computer Science students during first week of February 2020.

1. **Mr.S.Muthukumar (CS)** - 7010670959
2. Dr.M.Jaikumar (BCA) - 9092908425
3. Dr.N.Elangovan (B.Com CA) - 9500262225
4. Mr.N.Gopalsamy (B.Com) - 9976941036

You are requested to discuss with the above staff members and finalize the title of the course unit number .Expecting your favourable reply.



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*Dr. N. Raman*  
Principal