



**R. T. E. Society's**  
**Arts Science and Commerce Degree College,**  
**Ranebennur-581115**

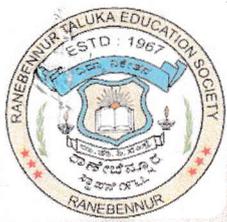
**Criteria 1- Curricular Aspects**

**Key Indicator- 1.2 Academic Flexibility**

*1.2.1. Number of Add on /Certificate/Value added programs offered during the year.*

**LIST OF VALUE-ADDED COURSES**  
**2021-22**

<b>Sl.No.</b>	<b>Name of Add on /Certificate programs offered</b>
1	Laser and Photonics
2	Biomolecular
3	Materials Synthesis & Characterization
4	Cleaning Agents Soap Detergents & Disinfectants
5	Constitution of India
6	Sociology of Tourism & Management
7	History of Tourism and Management
8	Campus to Corporate
9	Nursery & Horticultural Techniques
10	Intellectual Commerce Property Rights
11	Medicinal Botany & Conservation of Medicinal Plants
12	Yoga-Practice of various Asanas with insistence on Surya Namaskaras
13	Yoga-Practical Training
14	Online Trading
15	Computer Fundamentals and Programming in C
16	Accounting with Tally
17	office Automation



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Arts, Science & Commerce Degree College

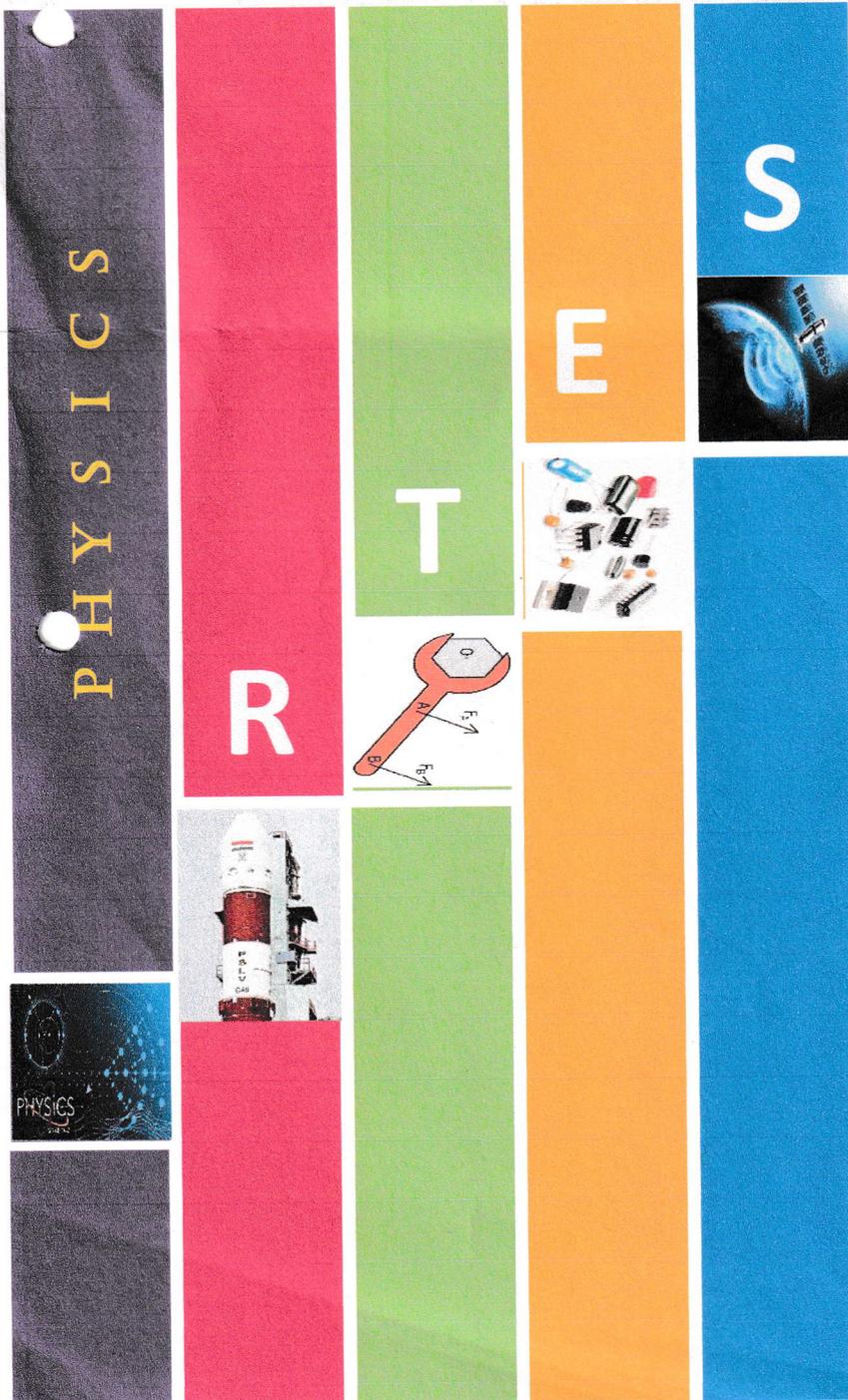
Ranebennur-581 115, Karnataka

(Affiliated with Karnataka University Dharwad, UGC Recognized 2f & 12B and NAAC Accredited)

AY 2021-2022 Onwards

Laser and Photonics

Knowledge is all Ambrosia



Value Added Course

Laser & Photonics

 <https://rtescollege.co.in/>

 [principal\\_rtscollege@yahoo.com](mailto:principal_rtscollege@yahoo.com)

 +91 9449121300

 Magod Cross, P.B. Road, Ranebennur,  
Karnataka, INDIA.

ABOUT US

The college is situated a vast green campus at the heart of tranquil outskirts of Ranebennur, It is at a short distance of 1 KM from Ranebennur Bus Stand, 3 KMs from Ranebennur Railway Station which is the gateway of North Karnataka. RTES Degree College is one of the only higher educational institutions in the part of Ranebennur. Higher education for rural students was a dream back in the year 1967, with a view to streamline the day-to-day working of the institution. Keeping this in view, its maintenance and governance were registered society functioning under the leadership of **Late Shri. V.K. Sawkar**. Now, the Council is functioning under the leadership of **Shri. S. V. Sawkar**. **Initially** the Management started higher education on Arts and Science courses in this part of Ranebennur with the sincere effort of our esteemed Management of Ranebennur Taluka Education Society under the Presidentship of **Late Shri. V.K. Sawkar**, a veteran social worker. Based on the job market trend and demand of surrounding villagers, management started Commerce programme in the year 1976. The enrolment of the gradually increased from time to time. The college has been recognized under 2(f) and 12(B) in 1982. With the support of financial assistance of UGC, college has augmented necessary infrastructural facilities. In addition to this, our management run B.Ed., Law, Public School, Highschool, Pre University College.

**C**ourse Code: **RTEPHYOC04**

**D**uration: **30** hours **C**redits : **02**

COURSE OUTCOME

**Course Outcomes:**

Upon successful completion of the course, the students will be able to

CO1: Describe the laser systems and their applications.

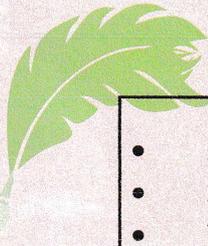
CO2: Identify the applications of lasers and photonics.

CO3: Learn to apply concepts learnt in laser and photonics and Industry.

CO4 : Learn the idea of optical fiber communications and importance in the advancement of technologies.

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# COURSE OBJECTIVE

- An ability to understand a Laser system and photonics.
- An understanding of concepts of Lasers and photonics.
- The broad education necessary to understanding working of laser and photonics.
- A knowledge of the concepts like nonlinear optics and acouto-optics..

## COURSE CONTENT

B.Sc. 2nd Semester Syllabus

Course Name : Laser & Photonics

Course Code : RTEPHY0CO4

Course Type : Core

Contact Hours : 30 Hours

Course Credits : 04

Unit Number	Course Content	Lectures
UNIT – 01	<b>Laser Physics</b> : The Einstein coefficients, light amplification, the threshold condition, laser rate equations, line broadening mechanisms, cavity modes, optical resonator, quality factor, mode selection, Q-switching, mode locking in lasers; gas lasers, solid state lasers, semiconductor lasers and dye lasers.	6L
UNIT – 02	<b>Laser systems and Modulators</b> : Various common laser systems and applications, Laser modulators, Electro-optics, mode locking in lasers; gas lasers, solid state lasers, semiconductor lasers and dye lasers.	6L
UNIT – 03	<b>Nonlinear Optics</b> : Nonlinear optical susceptibilities, harmonic generates, frequency conversion, phase matching, bistable device, optical switching	6L
UNIT – 04	<b>Photonics</b> : Optical properties of anisotropic media, wave refractive index, optical activity and Faraday effect, liquid crystals; principles of electro-optics, magneto-optics, photo refractive materials, acousto-optics and related device s; self-focussing and Kerr effect, Basic principles and applications of holography.	6L
UNIT – 05	<b>Optical Fiber</b> : Step index and graded index optical fibers attenuation, dispersion; optical fiber communication and its advantages; optical detectors.	6L

### Books and References.

1. Laser Fundamentals by W.T.Silvast, Cambridge University Press.
2. Optical Electronics by A.Ghatak, and K.Tyagarajan, Cambridge University Press.
- 3 .Photonics by A. Yariv, and E.Yee, Oxford University, Press.
4. Nonlinear Optics by R. Boyd, Academic Press.





# EVALUATION



MCQ based test	:	30 x 3 M = 90 M
Student attendance and participation	:	10 M
Total	:	100 M

**MEDIUM OF INSTRUCTION-English**

**100 MARKS**



**PASSING 40**

**WHO SHOULD DO IT?**

*[Signature]*  
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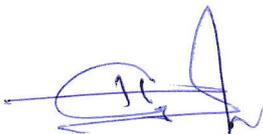


Course is open for any student from Physical Science.

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**RANEBENNUR**

**NOTICE**

It is informed to the all-B.Sc – 1<sup>st</sup> SEM students that, The department of Physics is conducting value added course in “**Laser and Photonics**” from 10<sup>th</sup> July to 19<sup>th</sup> December 2021. So interested students have to take their admission before 2<sup>nd</sup> July 2021. The class will be conducted every Friday to Tuesday afternoon from 3.00 to 4.00 in Room seminar hall.

  
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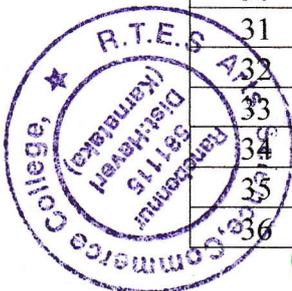
Department: Physics

Course Title: Laser and Photonics

Course Code: RTEPHY0C04

### Student Enrolment List – 2021-22

SL.NO	STUDENTS NAME
1	AISHWARYA S SUNAGAR
2	AKSHATHA CHANDRAPPA G
3	GOUTAMI GANGADHAR D
4	JAYALAKSHMI C BARKI
5	LATA M ELIGER
6	LATA B GYANAGOUDRA
7	MADHU S KORER
8	NAGARATNA SURESHAPPA K
9	POOJA TALAWAR
10	PRAJWAL KULKARNI
11	PRAGATHI MOUNESHAPPA MAVINATOP
12	PUTTAPPA FAKKIRAPPA KURUBAR
13	RANJITA MALATESH DEVARAGUDDA
14	REVATI SANGAMMANAVAR
15	RAHUL J MALAGAVI
16	SHIVAKUMAR ASHOK MELMALAGI
17	SHWETA GALAGANATH
18	UMA J
19	VINAYAK PRABHUGOUDA RAMALINGANNAVAR
20	BHAGYA PATTEPUR
21	ARSHIYA DARUGAR
22	CHANGRIKA K CHIKKALLAVAR
23	YOGESH H CHIKKALLAVAR
24	BIBI HARIJAN DAVANGERI
25	CHETANA S K
26	JANHAVI CHAVAHAN
27	KRUTHIK B GUDAMI
28	MANTESH M MAYAPPANAVAR
29	NAGARAJ R K
30	REVANTH H K
31	VINODA NAGAPPA HARIJAN
32	VINAYAKA GUNDAPPA VALLI
33	ANUSHREE B IMMADI
34	DEVENDRAPPA M K
35	HANUMANTAPPA N NERTI
36	JALAJAKSHI I YALEHOLI



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37	MAMATA S H
38	RENUKA V M
39	SABANOOREN SAIKALGAR
40	VINAYAKA CHAKRASALI
41	VISHNUREDDI Y KOPPAD
42	CHAITRA C MUDDI
43	HABEEBA DAVANGERE
44	SANJANA S M
45	ASIF H HARAPANAHALLI
46	HARISH MALATESH OLEKAR
47	MANOJ S MELMURI
48	SANJAY SURENDRA BOGAR
49	ANU V KARAMUDI
50	SINDHU KOLERA
51	SUPRITHA B BIDARI
52	VAISHNAVI V RITTI
53	VINOD B YANDIGERI
54	CHANDU BENAKANAKONDA
55	SUPRIYA N MUNDASAD
56	VARUN AMBALI
57	KIRAN B CHAVHAN
58	PAVITRA K LAMANI
59	BIBI AMANA KHANUM SHIRED
60	PRASAD N B

  
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DEPARTMENT OF PHYSICS

VALUE ADDED COURSE ( Lasers & Photonics)

SL.NO	STUDENTS NAME	1	2	3	4	5	6	7	8	9	10
1	AISHWARYA S SUNAGAR	A	A	A		A	A	A	A	A	A
2	AKSHATHA CHANDRAPPA G	AB	AB	AB		AB	AB	AB	AB		AB
3	GOUTAMI GANGADHAR D	B	B	B	B	B	B		B	B	B
4	JAYALAKSHMI C BARKI	Jayal									
5	LATA M ELIGER	Lata	Lata		Lata	Lata	Lata	Lata	Lata		Lata
	LATA B GYANAGOUDRA	Lata									
7	MADHU S KORER	MA									
8	NAGARATNA SURESHAPPA K	N	N	N	N	N	N	N		N	
9	POOJA TALAWAR	Pooja									
10	PRAJWAL KULKARNI	Prajwal									
11	PRAGATHI MOUNESHAPPA MAVINATOP	Pragathi									
12	PUTTAPPA FAKKIRAPPA KURUBAR	Putta	Putta	Putta	Putta		Putta	Putta	Putta		Putta
13	RANJITA MALATESH DEVARAGUDDA	Ranjita									
14	REVATI SANGAMMANAVAR	Revati									
15	RAHUL J MALAGAVI	RM	RM		RM	RM	RM	RM	RM		
	SHIVAKUMAR ASHOK MELMALAGI	SA		SA							
17	SHWETA GALAGANATH	Shweta									
18	UMA J	Uma									
19	VINAYAK PRABHUGOUDA RAMALINGANNAVAR	V	V	V	V	V	V	V	V	V	V
20	BHAGYA PATTEPUR	B	B	B	B	B	B	B	B	B	B
21	ARSHIYA DARUGAR	Arshiya									
22	CHANDRIKA K CHIKKALLAVAR	Chandrika									
23	YOGESH H CHIKKALLAVAR	Y	Y	Y		Y	Y	Y		Y	Y
24	BIBI HARIJAN DAVANGERI	B	B	B	B	B	B	B	B	B	B
25	CHETANA S K	C	C	C	C	C	C	C	C	C	C
26	JANHAVI CHAVAHAN	J	J	J	J	J	J	J	J	J	J
27	KRUTHIK B GUDAMI	K	K	K	K	K	K	K	K	K	K

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28	MANTESH M MAYAPPANAVAR	<del>Mantesh</del>									
29	NAGARAJ R K	<del>Nagaraj</del>	<del>Nagaraj</del>	<del>Nagaraj</del>		<del>Nagaraj</del>	<del>Nagaraj</del>	<del>Nagaraj</del>	<del>Nagaraj</del>	<del>Nagaraj</del>	<del>Nagaraj</del>
30	REVANTH H K	<del>RK</del>	<del>RK</del>	<del>RK</del>		<del>RK</del>	<del>RK</del>	<del>RK</del>	<del>RK</del>	<del>RK</del>	<del>RK</del>
31	VINODA NAGAPPA HARIJAN	<del>Vinoda</del>	<del>Vinoda</del>		<del>Vinoda</del>	<del>Vinoda</del>	<del>Vinoda</del>	<del>Vinoda</del>	<del>Vinoda</del>	<del>Vinoda</del>	
32	VINAYAKA GUNDAPPA VALLI	<del>Vinayaka</del>									
33	ANUSHREE B IMMADI	<del>Anushree</del>									
34	DEVENDRAPPA M K	<del>Devendra</del>									
35	HANUMANTAPPA N NERTI	<del>Hanuman</del>	<del>Hanuman</del>	<del>Hanuman</del>	<del>Hanuman</del>	<del>Hanuman</del>		<del>Hanuman</del>		<del>Hanuman</del>	
36	JALAJAKSHI I YALEHOLI	<del>Jalajakshi</del>									
37	MAMATA S H	<del>Mamata</del>									
38	RENUKA V M	<del>Renuka</del>									
39	SABANOOREN SAIKALGAR	<del>Sabanooren</del>									
40	VINAYAKA CHAKRASALI	<del>Vinayaka</del>									
41	VISHNUREDDI Y KOPPAD	<del>Vishnu</del>	<del>Vishnu</del>	<del>Vishnu</del>		<del>Vishnu</del>	<del>Vishnu</del>		<del>Vishnu</del>	<del>Vishnu</del>	<del>Vishnu</del>
42	CHAITRA C MUDDI	<del>Chaitra</del>									
43	HABEEBA DAVANGERE	<del>Habeeba</del>									
44	SANJANA S M	<del>Sanjana</del>									
45	ASIF H HARAPANAHALLI	<del>Asif</del>	<del>Asif</del>		<del>Asif</del>	<del>Asif</del>	<del>Asif</del>	<del>Asif</del>	<del>Asif</del>	<del>Asif</del>	
46	HARISH MALATESH OLEKAR	<del>Harish</del>									
47	MANOJ S MELMURI	<del>Manoj</del>									
48	SANJAY SURENDRA BOGAR	<del>Sanjay</del>									
	ANU V KARAMUDI	<del>Anu</del>									
50	SINDHU KOLERA	<del>Sindhu</del>									
51	SUPRITHA B BIDARI	<del>Supri</del>									
52	VAISHNAVI V RITTI	<del>Vaishnavi</del>									
53	VINOD B YANDIGERI		<del>Vinod</del>								
54	CHANDU BENAKANAKONDA	<del>Chandu</del>		<del>Chandu</del>	<del>Chandu</del>	<del>Chandu</del>		<del>Chandu</del>	<del>Chandu</del>		<del>Chandu</del>
55	SUPRIYA N MUNDASAD	<del>Supriya</del>									
56	VARUN AMBALI	<del>Varun</del>									
57	KIRAN B CHAVHAN	<del>Kiran</del>	<del>Kiran</del>		<del>Kiran</del>						
58	PAVITRA K LAMANI	<del>Pavitra</del>	<del>Pavitra</del>	<del>Pavitra</del>		<del>Pavitra</del>	<del>Pavitra</del>	<del>Pavitra</del>	<del>Pavitra</del>	<del>Pavitra</del>	<del>Pavitra</del>
59	BIBI AMANA KHANUM SHIRED	<del>Bibi</del>									
60	PRASAD N B	<del>Prasad</del>	<del>Prasad</del>	<del>Prasad</del>		<del>Prasad</del>	<del>Prasad</del>	<del>Prasad</del>	<del>Prasad</del>	<del>Prasad</del>	<del>Prasad</del>

  
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**DEPARTMENT OF PHYSICS**

**VALUE ADDED COURSE ( Lasers & Photonics)**

SL.NO	STUDENTS NAME	1	2	3	4	5	6	7	8	9	10
1	AISHWARYA S SUNAGAR	A	A	A	A	A	A	A	A	A	A
2	AKSHATHA CHANDRAPPA G	AK	AK	AK	AK	AK	AK		AK		AK
3	GOUTAMI GANGADHAR D	G	G	G	G	G	G	G	G	G	G
4	JAYALAKSHMI C BARKI	Jay									
5	LATA M ELIGER	L	L	L	L	L	L	L	L	L	L
6	LATA B GYANAGOUDRA	Lata									
7	MADHU S KORER	M	M	M	M	M	M	M	M	M	M
8	NAGARATNA SURESHAPPA K	N	N	N	N	N	N	N	N	N	N
9	POOJA TALAWAR	Pooja									
10	PRAJWAL KULKARNI	Prajwal									
11	PRAGATHI MOUNESHAPPA MAVINATOP	Pragathi									
12	PUTTAPPA FAKKIRAPPA KURUBAR	P	P	P		P	P	P	P	P	
13	RANJITA MALATESH DEVARAGUDDA	Ranjita									
14	REVATI SANGAMMANAVAR	Revati									
15	RAHUL J MALAGAVI	R	R	R		R	R	R	R	R	
16	SHIVAKUMAR ASHOK MELMALAGI	S	S	S		S	S	S	S	S	S
17	SHWETA GALAGANATH	Shweta									
18	UMA J	U	U	U	U	U	U	U	U	U	U
19	VINAYAK PRABHUGOUDA RAMALINGANNAVAR	V		V	V	V	V	V		V	
20	BHAGYA PATTEPUR	B	B	B	B	B	B	B	B	B	B
21	ARSHIYA DARUGAR	A	A	A	A	A	A	A	A	A	A
22	CHANDRIKA K CHIKKALLAVAR	C	C	C	C	C	C	C	C	C	C
23	YOGESH H CHIKKALLAVAR	Y	Y	Y	Y	Y		Y		Y	Y
24	BIBI HARIJAN DAVANGERI	B	B	B	B	B	B	B	B	B	B
25	CHETANA S K	C	C	C		C	C	C		C	
26	JANHAVI CHAVAHAN	J	J	J	J	J	J	J		J	
27	KRUTHIK B GUDAMI	K	K	K	K	K	K	K	K	K	K
28	MANTESH M MAYAPPANAVAR	M	M	M	M	M	M	M	M	M	M
29	NAGARAJ R K	N	N	N	N	N	N	N	N	N	N

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30	REVANTH H K	PK	PK	PK	PK	PK	PK		PK	PK	PK
31	VINODA NAGAPPA HARIJAN	Vs	Vs	Vs	Vs	Vs	Vs		Vs	Vs	Vs
32	VINAYAKA GUNDAPPA VALLI	Vs									
33	ANUSHREE B IMMADI	shubra									
34	DEVENDRAPPA M K	DA									
35	HANUMANTAPPA N NERTI	HA									
36	JALAJAKSHI I YALEHOLI	JY									
37	MAMATA S H	manu									
38	RENUKA V M	Rk									
39	SABANOOREN SAIKALGAR	saba Neem									
40	VINAYAKA CHAKRASALI	Vs									
41	VISHNUREDDI Y KOPPAD	Vk									
42	CHAITRA C MUDDI	CC									
43	HABEEBA DAVANGERE	Hd									
44	SANJANA S M	SM									
45	ASIF H HARAPANAHALLI	AA									
46	HARISH MALATESH OLEKAR	HO									
47	MANOJ S MELMURI	MS									
48	SANJAY SURENDRA BOGAR	SB									
49	ANU V KARAMUDI	AnuV									
50	SINDHU KOLERA	Sindhu									
51	SUPRITHA B BIDARI	SB									
52	VAISHNAVI V RITTI	Vaishu									
53	VINOD B YANDIGERI	Vd									
54	CHANDU BENAKANAKONDA	chandu									
55	SUPRIYA N MUNDASAD	Su									
56	VARUN AMBALI	Vart									
57	KIRAN B CHAVHAN	Kb									
58	PAVITRA K LAMANI	PK									
59	BIBI AMANA KHANUM SHIRED	Amana									
60	PRASAD N B	Prasad									

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1	AISHWARYA S SUNAGAR	A	A		A	A	A	A	A	A	A
2	AKSHATHA CHANDRAPPA G	AG	AG		AG	AG	AG	AG	AG		AG
3	GOUTAMI GANGADHAR D	G	G	G	G	G	G	G	G	G	G
4	JAYALAKSHMI C BARKI	Jay	Jay	Jay	Jay	Jay	Jay		Jay	Jay	Jay
5	LATA M ELIGER	LE	LE	LE	LE	LE		LE	LE	LE	
6	LATA B GYANAGOUDRA	Lata									
7	MADHU S KORER	MA									
8	NAGARATNA SURESHAPPA K	NR	NR	NR	NR		NR	NR	NR		NR
9	POOJA TALAWAR	Pooja									
10	PRAJWAL KULKARNI	Prajwal									
11	PRAGATHI MOUNESHAPPA MAVINATOP	Praj									
12	PUTTAPPA FAKKIRAPPA KURUBAR	PK	PA	PA	PA		PA	PA	PA		PA
13	RANJITA MALATESH DEVARAGUDDA	Ranjita									
14	REVATI SANGAMMANAVAR	Revati									
15	RAHUL J MALAGAVI	RA	RA	RA		RA	RA	RA		RA	RA
16	SHIVAKUMAR ASHOK MELMALAGI	SAA									
17	SHWETA GALAGANATH	Shweta									
18	UMA J	Uad									
19	VINAYAK PRABHUGOUDA RAMALINGANNAVAR	VR	VR	VR	VR	VR		VR	VR		VR
20	BHAGYA PATTEPUR	B	B	B	B	B	B	B	B	B	B
21	ARSHIYA DARUGAR	Arshiya									
22	CHANDRIKA K CHIKKALLAVAR	Chandra									
23	YOGESH H CHIKKALLAVAR	YH									
24	BIBI HARIJAN DAVANGERI	Bis									
25	CHETANA S K	Ch									
26	JANHAVI CHAVAHAN	JAN	JAN	JAN	JAN	JAN		JAN	JAN	JAN	JAN
27	KRUTHIK B GUDAMI	KR									
28	MANTESH M MAYAPPANAVAR	MP	MP	MP	MP	MP		MP	MP	MP	MP
29	NAGARAJ R K	Nagaraj									

30	REVANTH H K	RK									
31	VINODA NAGAPPA HARIJAN	<del>VH</del>	<del>VH</del>	<del>VH</del>		<del>VH</del>	<del>VH</del>	<del>VH</del>	<del>VH</del>	<del>VH</del>	<del>VH</del>
32	VINAYAKA GUNDAPPA VALLI	<del>VG</del>	<del>VG</del>	<del>VG</del>		<del>VG</del>	<del>VG</del>	<del>VG</del>	<del>VG</del>	<del>VG</del>	<del>VG</del>
33	ANUSHREE B IMMADI	<del>AB</del>									
34	DEVENDRAPPA M K	<del>DM</del>	<del>DM</del>	<del>DM</del>		<del>DM</del>	<del>DM</del>	<del>DM</del>		<del>DM</del>	<del>DM</del>
35	HANUMANTAPPA N NERTI	<del>HN</del>	<del>HN</del>	<del>HN</del>	<del>HN</del>	<del>HN</del>		<del>HN</del>	<del>HN</del>	<del>HN</del>	<del>HN</del>
36	JALAJAKSHI I YALEHOLI	<del>JY</del>									
37	MAMATA S H	<del>MS</del>									
38	RENUKA V M	RK									
39	SABANOOREN SAIKALGAR	<del>SN</del>									
40	VINAYAKA CHAKRASALI	<del>VC</del>									
41	VISHNUREDDI Y KOPPAD	<del>VY</del>									
42	CHAITRA C MUDDI	<del>CM</del>									
43	HABEEBA DAVANGERE	<del>HD</del>									
44	SANJANA S M	<del>SM</del>									
45	ASIF H HARAPANAHALLI	<del>AH</del>									
46	HARISH MALATESH OLEKAR	<del>HO</del>									
47	MANOJ S MELMURI	<del>MS</del>									
48	SANJAY SURENDRA BOGAR	<del>SB</del>									
49	ANU V KARAMUDI	<del>AK</del>									
50	SINDHU KOLERA	<del>SK</del>									
51	SUPRITHA B BIDARI	<del>SB</del>									
52	VAISHNAVI V RITTI	<del>VR</del>									
53	VINOD B YANDIGERI	<del>VB</del>									
54	CHANDU BENAKANAKONDA	<del>CB</del>		<del>CB</del>							
55	SUPRIYA N MUNDASAD	<del>SN</del>									
56	VARUN AMBALI	<del>VA</del>									
57	KIRAN B CHAVHAN	<del>KB</del>									
58	PAVITRA K LAMANI	<del>PK</del>									
59	BIBI AMANA KHANUM SHIRED	<del>AK</del>									
60	PRASAD N B	<del>PN</del>									

HOD OF PHYSICS  
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## R. T. E. Society's

Arts Science and Commerce Degree College, Ranebennur-581115

Department: Physics

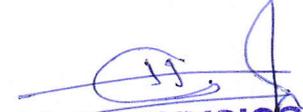
Course Title: Laser and Photonics

Course Code: RTEPHY0C04

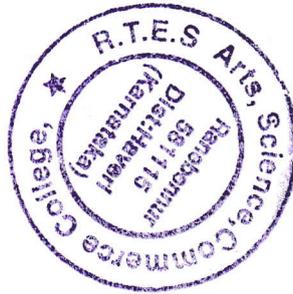
### Student Grade Sheet – 2020-21

SL.NO	STUDENTS NAME	THEORY	INTERNAL	TOTAL	GRADE
1	AISHWARYA S SUNAGAR	78	9	87	A
2	AKSHATHA CHANDRAPPA G	78	6	84	B
3	GOUTAMI GANGADHAR D	75	7	82	B
4	JAYALAKSHMI C BARKI	81	8	89	A
5	LATA M ELIGER	78	8	86	A
6	LATA B GYANAGOUDRA	72	6	78	B
7	MADHU S KORER	78	7	85	A
8	NAGARATNA SURESHAPPA K	81	8	89	A
9	POOJA TALAWAR	75	9	84	B
10	PRAJWAL KULKARNI	78	9	87	A
11	PRAGATHI MOUNESHAPPA MAVINATOP	81	8	89	A
12	PUTTAPPA FAKKIRAPPA KURUBAR	81	7	88	A
13	RANJITA MALATESH DEVARAGUDDA	81	7	88	A
14	REVATI SANGAMMANAVAR	81	9	90	A
15	RAHUL J MALAGAVI	78	9	87	A
16	SHIVAKUMAR ASHOK MELMALAGI	75	8	83	B
17	SHWETA GALAGANATH	78	8	86	A
18	UMA J	78	9	87	A
19	VINAYAK PRABHUGOUDA RAMALINGANNAVAR	78	8	86	A
20	BHAGYA PATTEPUR	72	10	82	B
21	ARSHIYA DARUGAR	78	9	87	A
22	CHANGRIKA K CHIKKALLAVAR	78	8	86	A
23	YOGESH H CHIKKALLAVAR	75	9	84	B
24	BIBI HARIJAN DAVANGERI	75	8	83	B
25	CHETANA S K	81	8	89	A

35	HANUMANTAPPA N NERTI	78	9	87	A
36	JALAJAKSHI I YALEHOLI	75	8	83	B
37	MAMATA S H	75	8	83	B
38	RENUKA V M	78	7	85	A
39	SABANOOREN SAIKALGAR	75	9	84	B
40	VINAYAKA CHAKRASALI	75	9	84	B
41	VISHNUREDDI Y KOPPAD	78	8	86	A
42	CHAITRA C MUDDI	75	7	82	B
43	HABEEBA DAVANGERE	72	9	81	B
44	SANJANA S M	72	8	80	B
45	ASIF H HARAPANAHALLI	75	9	84	B
46	HARISH MALATESH OLEKAR	72	7	79	B
47	MANOJ S MELMURI	78	9	87	A
48	SANJAY SURENDRA BOGAR	72	8	80	B
49	ANU V KARAMUDI	75	9	84	B
50	SINDHU KOLERA	78	9	87	A
51	SUPRITHA B BIDARI	78	8	86	A
52	VAISHNAVI V RITTI	75	7	82	B
53	VINOD B YANDIGERI	72	8	80	B
54	CHANDU BENAKANAKONDA	80	8	88	A
55	SUPRIYA N MUNDASAD	81	8	89	A
56	VARUN AMBALI	78	9	87	A
57	KIRAN B CHAVHAN	75	7	82	B
58	PAVITRA K LAMANI	75	8	83	B
59	BIBI AMANA KHANUM SHIRED	75	8	83	B
60	PRASAD N B	78	9	87	A

  
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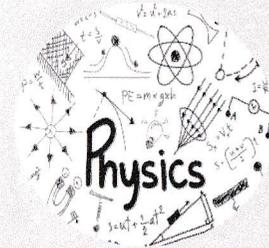
VALUE ADD COURSE ON  
"LASER AND PHOTONICS"



R. T. E. Society's  
Arts Science and Commerce Degree College, Ranebennur-581115,  
Karnataka

Department of Physics

VALUE ADDED COURSE CERTIFICATE



A.Y-2021-22

COURSE CODE:RTEPHYOC04

THIS CERTIFICATE IS PRESENTED TO

Mr/Mrs./Ms.....Latha B. Kores.....

For the session 2021-22, has Successfully completed the value added course in "Laser and Photonics" from the department of Physics.

Principal  
**PRINCIPAL**

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Ms. Pragati S M  
Course Coordinator

Sri. Basavaraj H.G  
HOD OF PHYSICS  
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RANEBENNUR-581 115

Dr. Madhukumar R  
Coordinator, IQAC





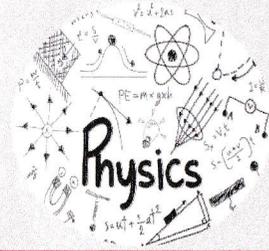
VALUE ADD COURSE ON  
"LASER AND PHOTONICS"



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Arts Science and Commerce Degree College, Ranebennur-581115,  
Karnataka

Department of Physics

VALUE ADDED COURSE CERTIFICATE



A.Y-2021-22

COURSE CODE:RTEPHYOC04

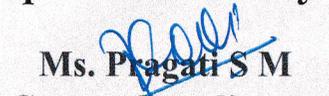
THIS CERTIFICATE IS PRESENTED TO

Mr/Mrs./Ms.....Chetana S. K.....

For the session 2021-22, has Successfully completed the value added course in "Laser and Photonics" from the department of Physics.

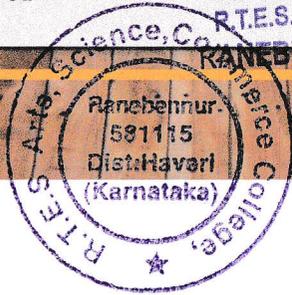
  
Principal  
PRINCIPAL

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Course Coordinator

  
Sri. Basavaraj H.G  
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Dr. Madhukumar R  
Coordinator, IQAC





Department of Political Science Value added course on  
"Laws And Institutions Of Human Rights In India"

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**Ranebennur-581115**

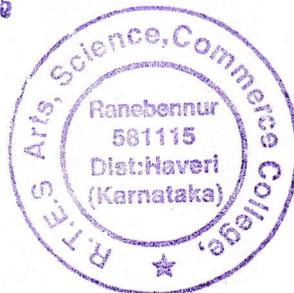
**NOTICE**

It Is Informed To The 3<sup>rd</sup>& 5<sup>th</sup> Semester Students That The Department On Political Science Is Conducting Value Added Course In **CONSTITUTION OF INDIA** From 2<sup>nd</sup> Dec 2021 To 8 Jan 2022. So Interested Students Have To Take Their Admission Before 1 Dec 2021. The Class Will Be Conducted Every Thursday To Saturday Afternoon From 4.00pm To 5.00pm

Room No -05

  
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**Department of Political Science**

**Value added course on**

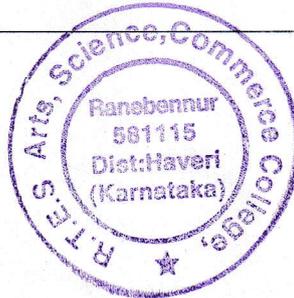
**"CONSTITUTION OF INDIA"**

**2021-22**

**List of the Faculty Academic Year -2020-21**

Sl.No	Name	signature
1	<b>S.V. AJAREDDY</b> HOD Department of political science	
2	<b>SHIVAKUMAR BENNI</b> Guest Faculty	

  
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"Laws And Institutions Of Human Rights In India"

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**Department of Political Science**

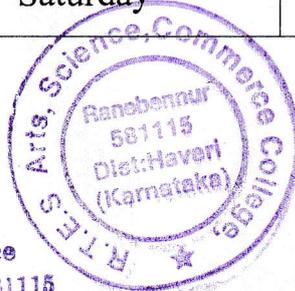
**Value added course on**

**"CONSTITUTION OF INDIA"**

**TIME TABLE 2021-22**

S.No	Date	Time
1.	Thursday	4.00pm to 5.00pm
2.	Friday	4.00pm to 5.00pm
3.	Saturday	4.00pm to 5.00pm

  
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*Department of Political Science Value added course on  
"Laws And Institutions Of Human Rights In India"*

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Arts Science and Commerce Degree College  
Ranebennur-581115**

**Department of Political Science**

**Value added course on**

**"CONSTITUTION OF INDIA"**

**SYALLBUS -2021-22**

FROM THIS ACCADIMIC YEAR FROM THE YEAR 2020-21 STARTED VALUE ADDED  
COURSE ON **"CONSTITUTION OF INDIA"**

**Objectives :**

The Main Objectives Of The Indian Constitution Include **Sovereignty, Socialism, Secularism, Democracy, And Republic.** Apart From This, Justice, Liberty, And Fraternity Are Also A Part Of The Objectives Of The Indian Constitution.

  
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"Laws And Institutions Of Human Rights In India"*

**Unit 1:**

**6 Hrs**

Indian Constitution: Making and basic premise Meaning and Significance of Constitution.

Constituent Assembly- Composition, Objectives Preamble and Salient features of the Indian Constitution. Fundamental Rights, Fundamental Duties. Directive Principles

**Unit 2:**

**6 Hrs**

Union and State Government, President of India- Election, Powers and functions Prime Minister and Cabinet – Structure and functions, Governor- Powers and functions Chief Minister and Council of Ministers – Functions.

**Unit 3:**

**6 Hrs**

Legislature and Judiciary, Parliament – Lok Sabha and Rajya Sabha – Composition and powers, State Legislative Assembly and Legislative Council – Composition and powers Judicial System in India – Structure and features, Supreme Court and High Court: Composition, Jurisdiction.

**Unit 4:**

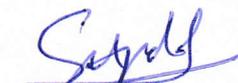
**6 Hrs**

Governance and Constitution , Federalism in India – Features

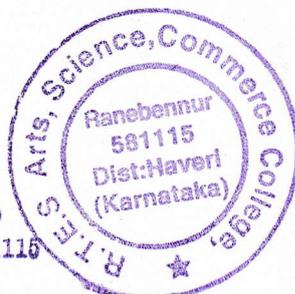
**Unit 5:**

**6 Hrs**

Local Government -Panchayats –Powers and functions; 73rd and 74th amendments Election Commission – Composition, Powers and Functions; Electoral Reforms Citizen oriented measures – RTI and PIL – Provisions and significance

  
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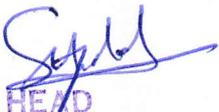


  
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*Department of Political Science Value added course on  
"Laws And Institutions Of Human Rights In India"*

**REFERENCES:**

1. Indian Constitutional Law by M.P. Jain –
  - a. It is for lawyers, judiciary aspirants, and also law students.
2. Introduction to the Constitution of India by DD Basu –
  - a. For tough government exams like UPSC.
3. The Constitution of India for Children: Written by Subhadra Sen Gupta
4. Ahuja, V.K. (Edr.) Human Rights Contemporary Issues: Festschrift in the Honour of Professor Upendra Baxi. Lucknow: Eastern Book Co., 342.7(100) AHU P19 Acc.No.17898 2019
5. Karandikar, S.A. & Sharma, Minal M. Human Rights Law, 2nd Revised Edn. Mumbai:Aarati & Co., 342.7(100) KAR P18 Acc No.17899 2018
6. Singh, Jai S (Dr), Upadhaya Law of Human Rights Under the Constitution of India Edn. 2016, New Delhi: Whytes & Co., 342.7(100):342.4 SIN P17 Acc.No.17900 2017
7. Saxena, Harisharan & Others Human Rights. Indore: Khetrapal Law House, 342.7(100) SAX P17 Acc.No.17901 2017
8. Chandra, U. (Dr.) Human Rights Allahabad: Allahabad Law Agency,342.7(100) CHA P10 Acc.No.17902 2010
9. Rao, Rega Surya Lectures on Human Rights and International Law Hyderabad: Asia Law House, 342.7(100):341 RAO P18 Acc.No.17903 2018

  
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Department of Political Science  
Value added course on "CONSTITUTION OF INDIA"

**R.T.E.Society's**  
**Arts Science and Commerce Degree College Ranebennur-**  
**581115**

**Department of Political Science**

**Department of Political Science**  
**Value added Course On**

**"CONSTITUTION OF INDIA"**

It Is Here By Informed To The 3<sup>rd</sup>& 5<sup>th</sup> Semester **B.A** Students That  
The Department of **POLITICAL SCIENCE** Will The Conduct The  
**MCQ** Examination On **10<sup>th</sup> Feb 2021.**

Venue: Room NO 05

Time :2.00pm To 5.00 Pm

  
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**Department of Political Science**

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**Model Question Paper**

**Time : 2 Hour**

**Max. Marks : 25 X 2 = 50**

**MCQ (Multiple choice questions on Intellectual Property Rights )**

**1. The Governor of a State is appointed by the President on the advice of the**

- (a) Prime Minister (b) Vice- President  
(c) Chief Minister (d) Chief Justice

**2. The President gives his resignation to the**

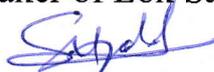
- (a) Chief Justice (b) Parliament  
(c) Vice President (d) Prime Minister

**3. For what period does the Vice President of India hold office ?**

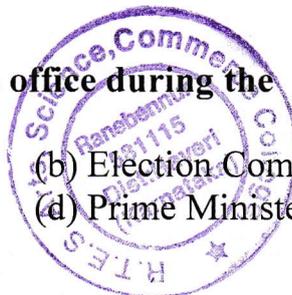
- (a) 5 years (b) Till the age of 65 years  
(c) 6 years (d) 2 years

**4. Who among the following holds office during the pleasure of the President ?**

- (a) Governor (b) Election Commissioner  
(c) Speaker of Lok Sabha (d) Prime Minister

  
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5. Which of the following is not true regarding the payment of the emoluments of the President ?
- (a) They can be reduced during a Financial Emergency.
  - (b) They are shown separately in the budget.
  - (c) They are charged on the Contingency Fund of India.
  - (d) They do not require any parliament sanction.
6. The total number of members nominated by the President to the Lok Sabha and the Rajya Sabha is
- (a) 16            (b) 18
  - (c) 14            (d) 12
7. Which one of the following does not constitute the electoral college for electing the President of India ?
- (a) Elected members of Lok Sabha
  - (b) Elected members of the Legislative Assembly of each state.
  - (c) Elected members of the Legislative Council
  - (d) Elected members of Rajya Sabha
8. The council of Ministers in a Parliamentary type of Government can remain in office till it enjoys the support of the
- (a) Minority of members of the Upper House of Parliament
  - (b) Majority of the members of the Upper House of Parliament
  - (c) Minority of members of the Lower House
  - (d) Majority of the members of the Lower House of Parliament
9. Which of the following appointments is not made by the President of India ?
- (a) Chief of the Army                      (b) Speaker of the Lok Sabha
  - (c) Chief Justice of India                (d) Chief of the Air Force
10. Who appoints the Prime Minister of India ?
- (a) Lok Sabha                                (b) President
  - (c) Parliament                                (d) Citizens of India
11. The first woman Governor of a state in free India was
- (a) Mrs. Indira Gandhi                      (b) Mrs. Vijaya Laxmi Pandit
  - (c) Mrs. Sarojini Naidu                      (d) Mrs. Sucheta Kripalani

- 12. Minimum age required to contest for Presidentship is**  
(a) 23 years (b) 21 years  
(c) 35 years (d) 30 years
- 13. The charge of impeachment against the President of India for his removal can be preferred by**  
(a) Both Houses of Parliament  
(b) Speaker of Lok Sabha and Chairman of Rajya Sabha  
(c) Rajya Sabha  
(d) Lok Sabha
- 14. The Chief Minister of a Union Territory where such a set up exists, is appointed by the**  
(a) Lt. Governor (b) Majority party in Legislature  
(c) President (d) Prime Minister
- 15. Who was the first Prime Minister of India ?**  
(a) Jawaharlal Nehru (b) Mrs. Indira Gandhi  
(c) Dr. Rajendra Prasad (d) Mahatma Gandhi
- 16. In case a President dies while in office, the vice President can act as President for a maximum period of**  
(a) 1 years (b) 3 months  
(c) 6 months (d) 2 years
- 17. The Union Council of Ministers consists of**  
(a) Cabinet Ministers, Minister of State and Deputy Ministers  
(b) Cabinet Ministers and Chief Ministers of the States  
(c) Prime Minister  
(d) Cabinet Ministers
- 18. Who administers the oath of office to the President of India before he enters upon the office ?**  
(a) Chief Justice (b) Speaker  
(c) Vice President (d) Prime Minister
- 19. Who among the following enjoys the rank of a Cabinet Minister of the Indian Union?**  
(a) None of the Above  
(b) Deputy Chairman of the Planning Commission  
(c) Deputy Chairman, Rajya Sabha  
(d) Secretary to the Government of India

20. A person who is not a member of Parliament can be appointed as a Minister by the President for a maximum period of
- (a) 9 months (b) 3 months  
(c) 12 months (d) 6 months
21. Which of the following appointments is not made by the President of India ?
- (a) Chief of the Army (b) Speaker of the Lok Sabha  
(c) Chief Justice of India (d) Chief of the Air Force
22. Who appoints the Prime Minister of India ?
- (a) Lok Sabha (b) President  
(c) Parliament (d) Citizens of India
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- (a) Both Houses of Parliament  
(b) Speaker of Lok Sabha and Chairman of Rajya Sabha  
(c) Rajya Sabha  
(d) Lok Sabha



  
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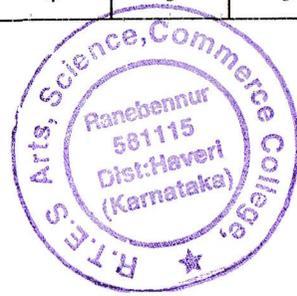
  
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**Arts, Science & Commerce Degree College Ranebennur**  
**Organised By-Dept of Political Science In Association with IQAC**  
**Programme:- Constitution of India 2021-22**

**Participants Attendance Sheet**

Sl. No	Name of the Student	Participants Attendance Sheet													
		2021 Dec-2	3/12	4/12	9/12	10/12	11/12	16/12	17/12	18/12	23/12	24/12	30/12	31/12	2022 Jan 1
1	PRAVEEN POOJAR	1	2	3	3	4	5	6	7	8	8	9	10	11	12
2	SURESH JOGI	1	2	3	4	5	5	6	7	8	9	9	10	11	12
3	VEENA HANUMANTAPPA GHANTER	1	2	3	4	5	6	7	8	9	9	10	11	12	13
4	HARSHITA HOSAMANI	1	1	2	3	4	5	6	7	7	8	9	10	11	12
5	VIKAS.S. NOORANDEVARAMATH	1	1	2	3	4	5	6	7	8	9	10	11	12	12
6	DEVENDRAPPAR SAVAKKANAVAR	1	2	3	4	4	5	6	7	8	9	10	10	11	12
7	SHIVARAJ PALED	1	1	2	3	4	5	6	7	8	9	10	11	12	12
8	BHEEMAPPA HULLYAL	1	1	2	3	4	5	6	7	8	9	10	11	12	12
9	RANGARADDI BANAKAR	1	2	3	3	4	5	6	7	8	8	9	10	11	12
10	CHANDRAPPATAVARAGUNDHI	1	2	3	4	5	5	6	7	8	9	9	10	11	12
11	MANJUNATH KANAGOTAGI	1	2	3	4	5	6	7	8	9	9	10	11	12	13
12	MANOHARA JYOTI	1	1	2	3	4	5	6	7	7	8	9	10	11	12
13	KIRAN D MUDAKANNANAVAR	1	1	2	3	4	5	6	7	8	9	10	11	12	12
14	NANDISH C AJAGANNANAVAR	1	2	3	3	4	5	6	7	8	9	10	10	11	12
15	ABHILASH KARABASALLAVAR	1	1	2	3	4	5	6	7	8	9	10	11	12	12
16	SHRIDHAR M WALMIKI	1	2	3	4	5	5	6	7	8	9	9	10	11	12
17	SACHIN KUNCHURAKAR	1	2	3	4	5	6	7	8	9	9	10	11	12	13
18	BEERESH SANNAKENCHALAR	1	1	2	3	4	5	6	7	8	9	10	11	12	12
19	MANJUNATH C AMBALER	1	2	3	3	4	5	6	7	8	8	9	10	11	12
20	SHIDDESH M BUDIHAL	1	2	3	4	5	5	6	7	8	9	9	10	11	12

*Sybil*  
**HEAD**  
 Department of Political Science  
 B.T.E.S. College, Ranebennur-581115



*Dee*  
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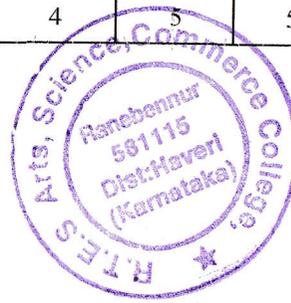
**R.T.E.Society's**  
**Arts, Science & Commerce Degree College Ranebennur**  
**Organised By-Dept of Political Science In Association with IQAC**

**Programme:- Constitution of India 2021-22**

Sl. No	Name of the Student	Participants Attendance Sheet													
		7/1	13/1	14/1	20/1	21/1	22/1	27/1	28/1	29/1	3/2	4/2	5/2	10/2	11/2
1	PRAVEEN POOJAR	1	2	3	3	4	5	6	7	8	8	9	10	11	12
2	SURESH JOGI	1	2	3	4	5	5	6	7	8	9	9	10	11	12
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10	CHANDRAPPA J TAVARAGUNDHI	1	2	3	4	5	5	6	7	8	9	9	10	11	12
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20	SHIDDESH M BUDIHAL	1	2	3	4	5	5	6	7	8	9	9	10	11	12

  
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**R. T. E. Society's  
Arts Science and Commerce Degree College, Ranebennur-581115, Karnataka  
Department of Political science in Association With IQAC**

**ORGANIES  
VALUE ADDED COURSE**



**Mr./Mrs./Ms. Manohara Jyoti**  
**Has completed the value-added course "CONSTITUTION OF INDIA" Conducted by the  
Department of Political science During the year 2020-21**

**Organize**

**S.V.Ajaraddy**

Department of Political Science  
R.T.E.S. College, Ranebennur-581115

**Initiator**

**Dr.Madhukumar.R  
Dr. Madhukumar R.  
Co-Ordinator**

Internal Quality Assurance Cell (IQAC)  
R.T.E.Society's Arts Science & Commerce  
Degree College RANEENNUR-581115

**Principal**

**Sri-C.A.Harihar  
PRINCIPAL**

R. T. E. Society's Arts, Science &  
Commerce Degree College, RANEENNUR

**Attested By**

**PRINCIPAL**

**R.T.E.S. Society's Arts, Science &  
Commerce Degree College, RANEENNUR**

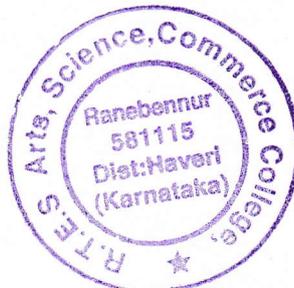
**DEPARTMENT OF POLITICAL SCIENCE**

**VALUE ADDED COURSE ON  
"CONSTITUTION OF INDIA"  
ACADEMIC YEAR 2021-22**

**PROGRAMME OUTCOMES** : As Per Curriculum Department  
Department Of Political Science Conducting Value Added Course Every  
Year (30 Hours Duration) On "**CONSTITUTION OF INDIA**" For BA  
Year Students. According To Value Added Action Plan The Course In  
The Month Of July On 1 Notice Was Displayed, In The Month Of 2<sup>nd</sup>  
Dec 2021 Onwards Weekly Three Classes Were Conducted. In The End  
Of September Month Department Of Political Science Conducted  
**MCQ Examination On 10<sup>th</sup> Feb 2021.**

- This Course Will Help Students To Culture And Culture Heritage
- This Course Acquires More Knowledge About Various Economic Impact In India.
- Through This Course Students Understood Various Segments And Unity Of The Indian Society.
- This Course Helps Students For Self -Improvement And Guiding Principles.

  
HEAD  
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R,T,E,S. College, Ranebennur-581116



  
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*R.T.E. Society's*  
*Arts, Science & Commerce Degree College*  
*Ranebennur*

**DEPARTMENT OF CHEMISTRY**

**VALUE ADDED COURSE ON**

**“CLEANING AGENTS, SOAP  
DETERGENTS AND DIS-INFECTANTS”**

**2021-2022**

**R.T.E.Society's  
Arts, Science & Commerce Degree College  
Ranebennur**

**NOTICE**

It is informed to all the Bsc V & VI Sem students that the department of chemistry is conducting value added course in **"CLEANING AGENTS, SOAP DETERGENTS AND DIS-INFECTANTS"** from 30<sup>th</sup> May 2022 to 28<sup>th</sup> July 2022. So interested students have to take their admission before 25<sup>th</sup> May 2021. The class will be conducted every Monday to Wednesday from 3.30 pm to 4.30 pm.

  
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Head of the Dept. of Chemistry  
Arts & Science College  
RANEBENNUR

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Ranebennur**

**DEPARTMENT OF CHEMISTRY**

**VALUE ADDED COURSE**

**ON**

**“CLEANING AGENTS, SOAP DETERGENTS AND  
DIS-INFECTANTS”**

**LIST OF THE FACULTY ACADEMIC  
YEAR**

**2021-2022**

- 1. Sri.H.Manjunath**  
HOD OF CHEMISTRY
- 2. Prof . B.I.Koli**
- 3. Prof. R.D.Nayak**
- 4. Miss. Harshita.H.K.**

**R.T.E.Society's  
Arts, Science & Commerce Degree College  
Ranebennur**

**DEPARTMENT OF CHEMISTRY**

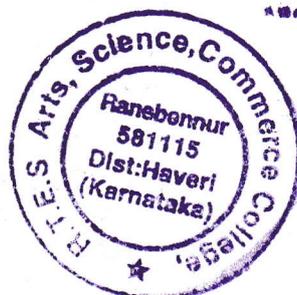
**VALUE ADDED COURSE ON**

**"CLEANING AGENTS, SOAP DETERGENTS AND DIS-  
INFECTANTS"**

**TIME TABLE 2021-2022**

SL.NO	DAY	TIME
1.	Monday	3.30.pm to 4.30 pm
2.	Tuesday	3.30.pm to 4.30 pm
3.	Wednesday	3.30.pm to 4.30 pm

  
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**DEPARTMENT OF CHEMISTRY  
Value Added Course On**

**“CLEANING AGENTS, SOAP DETERGENTS AND DIS-  
INFECTANTS”**

**Duration of course : 30 hours ( 15hrs theory+15hrs practical=30 hrs theory)**

**Objectives :**

- To create an awareness among the undergraduate students about the rule of chemistry in a day to day life .
- To help the students to appropriate products from the various products available in the market .
- To equip the students with better laboratory techniques and to create interest towards research .

**Syllabus :**

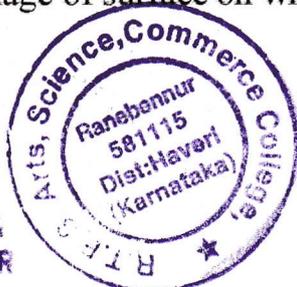
**Unit : 1**

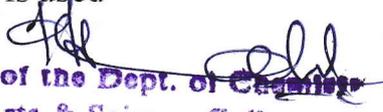
**08Hrs**

**Cleaning agents** : classification of cleaning agents, degreasers acid cleaners, alkalis, organic solvent, glass cleaners , general criteria for selection of cleaning agent Types of soiling – light , heavy, composition dirt, dust, oils, stains, Ease of use possible damage of surface on which it is used

**Cleaning agents** : classification of cleaning agents, degreasers acid cleaners, alkalis, organic solvent, glass cleaners , general criteria for selection of cleaning agent Types of soiling – light , heavy, composition dirt, dust, oils, stains, Ease of use possible damage of surface on which it is used

  
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RANEBENNUR

**Unit:2**

**07Hrs**

**Soaps , Detergents and disinfectants** : chemical composition of detergents; surfactants,builders, foaming agent, chelating agents, suspending agents, bulking agents, enzymes types of disinfectants; phenols, halogens, quaternary ammonia compounds, natural pinsoils

**Practicals :**

**15Hrs**

1. Preparation of hard and soft soaps
2. Preparation of detergents

  
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**R.T.E.Society's**  
**ARTS, SCIENCE & COMMERCE DEGREE COLLEGE,**  
**RANBENNUR – 581 115**

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**Internal Test Question Paper 2021-22**  
**“ Cleaning Agents, Soaps & Detergents**  
**& Disinfectants”**

**Dte : 07-06-2022**

**Total Marks: 40**

**Time : 2-00 hours**

**I Answer Any 10 of the following**

**10 x 2 = 20**

1. What are soaps?
2. What are Detergents?
3. What are cleaning agents?
4. Define surfactants?
5. Write types sailing?
6. What are chelating agents?
7. What is surfactant Builders?
8. What are foaming agents?
9. Write any two Enzyme types of Disinfectants?
10. What are phenols & Halogens?
11. What are Natural pinoils?
12. What are Quaternary Ammonium Compounds?

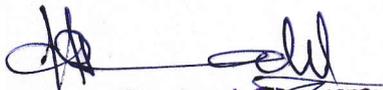
**II. Answer Any 4 of the following.**

**4x5 = 20**

1. Explain classification of cleaning agents?
2. Write general criteria for selection of cleaning agents?
3. Explain possible damage of surface of by using cleaning agents?
4. Write & Explain the chemical composition detergents.
5. Write and explain the chemical composition of surfactants.
6. Write and explain the types of disinfectants.

  
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**Head of the Dept. of Chemistry**  
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**RANBENNUR.**

**R.T.E.Society's**  
**Arts, Science & Commerce Degree College**  
**Ranebennur**

**DEPARTMENT OF CHEMISTRY**

**Value Added Course On**

**“CLEANING AGENTS, SOAP DETERGENTS AND DIS-  
INFECTANTS”**

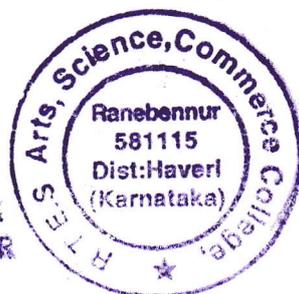
**MERIT MARKS LIST**

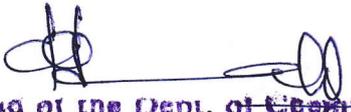
Sl.No	Name of the Student	Marks Obtained	Total Marks	Grade
1	Prakash.K.B.	38	40	A
2	Padmavati.J.K.	37	40	A
3	Vinayaka.S.C.	34	40	B
4	Bhumika.U.N.	32	40	B
5	Muskan	29	40	C

**Note:**

1. Grade Range 35 to 40 A Grade
2. Grade Range 30 to 34 B Grade
3. Below 30 C Grade

  
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Arts & Science College  
RANEBENNUR

**R.T.E. Society's  
Arts, Science & Commerce Degree College, Ranabennur - 581 115**

**DEPARTMENT OF CHEMISTRY**

**VALUE ADDED COURSE ON**

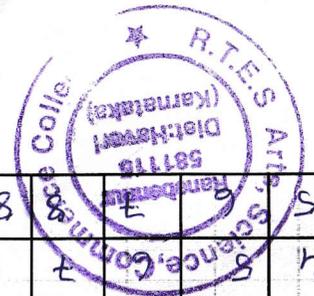
**ATTENDANCE SHEET**

2021-2022

*cleaning agents, soaps, detergents & disinfectants*

Sl.No.	Name of the Students	DATES														
1	Nisarga. N.T	1	1	2	3	3	4	5	6	7	8	9	10	11	12	13
2	Sushmita. S. Baligau	1	2	3	4	4	5	6	7	7	8	9	10	11	12	13
3	Kavita. K.K	1	2	3	3	4	5	6	7	8	9	9	10	11	12	13
4	Deepti. N.K	1	2	3	4	5	6	7	8	8	9	10	10	11	12	13
5	Nainag Banu A Havari	1	2	3	4	5	5	6	7	8	9	10	11	11	12	13
6	Radhika. H.K	1	2	3	4	5	5	6	6	7	8	9	9	10	11	12
7	Haveri. Ro. Koyakark	1	2	3	4	4	5	6	7	8	9	10	11	12	13	13
8	Paakash. K.B	1	2	3	4	5	6	7	7	8	9	10	11	11	12	13
9	Paakash. J.B	1	2	3	4	5	5	6	7	8	9	10	11	12	12	13
10	Ravuri. S.C	1	2	2	3	4	4	5	6	7	8	9	10	11	12	13
11	Padmavathi. J.K	1	2	3	4	5	6	6	7	7	8	9	10	11	12	13
12	Nandish. M.K	1	2	3	4	5	6	7	8	8	9	10	10	11	12	13
13	Pawamish. K	1	1	2	2	3	4	5	7	8	9	10	11	12	12	13
14	Kanthavijaygouda. patil	1	2	3	3	4	5	7	8	9	10	11	12	13	13	13

*Bsc BII Sem*



*Head of the Dept. of Chemistry*  
Arts & Science College.

*Principal*  
R.T.E. Society's Arts Science & Commerce College, Ranabennur

15	Kotesesh C.A	1	2	3	4	5	5	6	7	8	8	9	10	11	12	13
16	Chandu B	1	2	3	4	4	5	6	7	8	9	9	10	11	12	13
17	Vinayaka S.C	1	1	2	3	4	5	6	7	7	8	9	10	11	12	13
18	Bhumika U.N	1	2	3	3	4	5	6	6	7	8	9	10	11	12	13
19	Habeeba Z.D	1	2	3	4	5	6	7	7	8	9	10	11	11	12	13
20	Hajera A.D	1	2	2	3	4	5	6	7	7	8	9	10	11	12	13
21	Anu V.K	1	2	3	4	5	6	7	8	8	9	10	11	11	12	13
22	Bhagya K.P	1	1	2	3	4	5	6	7	7	8	9	10	11	12	13
23	Supriya N.M	1	2	3	4	5	6	6	7	8	9	10	10	11	12	13
24	Madhu	1	1	2	3	4	5	6	7	8	8	9	10	11	12	13
25	Sanjana S.M	1	2	3	4	5	5	6	7	8	9	9	10	11	12	13
26	Kaishma AM	1	2	3	4	4	5	6	7	8	9	10	11	11	12	13
27	Muskan	1	2	3	4	5	5	6	7	8	8	9	10	11	12	13
28	Bhargavi S.H.	1	2	3	4	5	6	6	7	8	9	10	11	11	12	13
29																
30																

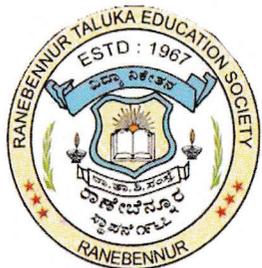
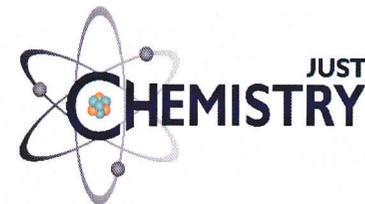
Head of the Dept. of Chemistry  
for Arts & Science College,  
RANEBENNUR.



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Commerce College, RANEBENNUR

# CERTIFICATE

OF APPRECIATION



R.T.E. Society's  
Arts Science & Commerce Degree college, Ranebennur-581115

An IQAC Initiative  
Value Added Course on

**“CLEANING AGENTS, SOAPS, DETERGENTS AND DIS - INFECTANTS**

Mr. Ms. *Prakash. K. B. Bsc V Semester*

For Successfully Completion of 30 hours “CLEANING AGENTS, SOAPS,  
DETERGENTS AND DIS - INFECTANTS”

Programme from *30<sup>th</sup> May 2022* to *28<sup>th</sup> July 2022*.....

  
Principal



  
Head of the Dept of Chemistry  
HOD of Chemistry College,  
RANE Bennur.



R.T.E.Society's  
Art Science And Commerce Ranebnnur-581115  
Department of Computer Science

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Department of Computer Science

Certificate Course

In

“Accounting With Tally”

Department of Computer Science

Art Science And Commerce Ranebnnur-581115

2021-22





**R.T.E.Society's**  
**Art Science And Commerce Ranebnnur-581115**  
**Department of Computer Science**

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE COURSE

In

**"Accounting With Tally"**

**Course Regulations**

**COURSE INTRODUCTION:** 2021

**TITLE OF THE COURSE:** "Accounting With Tally"

**COURSE CODE:** CS11

**ELIGIBILITY FOR ADMISSION TO THE COURSE:** First year students who are pursuing B.Sc Degree Course in R.T.E.S College,Ranebennur.

**DURATION OF THE COURSE:** 30 Hours  
(20 Hours Theory & 10 Hours Practical)

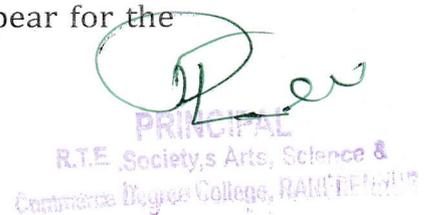
**INTAKE:** Minimum 30

**MEDIUM OF INSTRUCTION AND EXAMINATION:** English

**PATTERN OF EXAMINATION:** Examination contains one Theory paper of Maximum 50 Marks (25 Multiple Choice Questions, each question carries 2 marks). Examination will be conducted at the end of the course. The duration of the examination shall be 30 Minutes.

**AWARD OF CERTIFICATE:** After the completion of the course, an exam will be conducted for 50 marks. Certificate will be issued based on the following grading system:

Marks (Out of 50)	Grade Obtained
40 and above	A
30-39	B
20-29	C
Below 20	D (Fail: No certificate is issued, Student has to reappear for the course / exam.)



## OBJECTIVES OF THE CERTIFICATE COURSE

- To acquaint the students regarding the Tally which is essentially required for B.Sc Students.
- To understand the basics and features of Tally.
- To develop an ability among students to use Tally as ERP Corporate World.
- To improve the Knowledge in Computerized Accounting.

After the completion of the course, the students will be able to compete in Corporate World.

## PURPOSE OF THE COURSE:

The trend of Tally usage in India has been increasing because of its Security, Open Source and many such features. Commerce graduates learn this Tally from other institutes during / post their graduation by paying fees. This was mainly because of Accounting Related Subject being taught in academics as per the University syllabus. To fill this gap, the Department of Computer Science has initiated a Certificate Course on "Accounting with Tally" to its B.sc students at free of cost.

## COURSE OUTCOMES:

After the completion of the course, the students will be able to:

1. Identify, understand and use Tally to create and manage simple file Company and Related operations.
2. Organize directory structures.
3. Have ability to manage Accounting with Tally and company Details.

## TARGET AUDIENCE:

The target audiences for the proposed Certificate Course are final year B.Sc students.

## TEACHING METHODS AND ASSIGNMENTS:

Following teaching and learning methods are to be used:

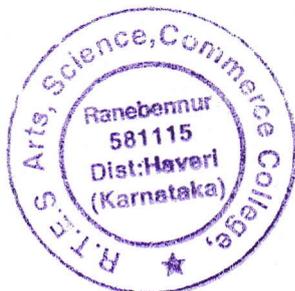
- Theory classes using ICT and other methods of teaching
- Demonstration of the commands while teaching
- Computer Lab for practical

*If offline classes are not possible due to Covid-19 pandemic as per the Government Order, the course shall be handled online.*

HEAD  
Dept. of Cs

Coordinator

Principal



*[Handwritten Signature]*  
Principal  
R.T.E.S. Society's Arts, Science &  
Commerce Degree College, RANE BENNUR

*[Handwritten Signature]*  
H.O.D.  
Department of Computer Science  
RTES Arts, Science & Commerce College,  
Ranebennur.



**R.T.E.Society's**  
**Art Science And Commerce Ranebnnur-581115**  
**Department of Computer Science**

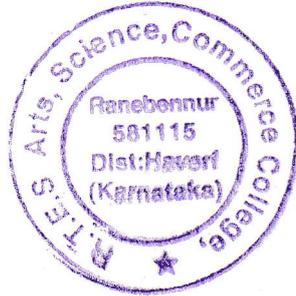
DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE COURSE

IN

**“Accounting With Tally”**  
**BOARD OF STUDIES**

Principal	Prof C.A Harihar
Coordinator	Dr Madukumar IQAC Co-ordinator
Head of Department	Mr Vimalakar G shetty
Members	1 Rekha Palled R.T.E.S College, Ranebennur



Principal  
**PRINCIPAL**  
R.T.E. Society's Arts, Science &  
Commerce Degree College, RANEBENNUR

H.O.D.  
Department of Computer Science  
RTES Arts, Science & Commerce College,  
Ranebennur.



**R.T.E.Society's**  
**Art Science And Commerce Ranebnnur-581115**  
**Department of Computer Science**

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE COURSE

On

**“Accounting With Tally”**

**NOTICE**

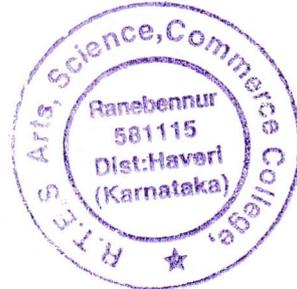
This is to bring to the notice of all the First Year students of B.Sc. Course that the Department of Computer Science is starting a Certificate Course in “Accounting With Tally”

Interested students are hereby informed to enrol their names with Shri. C.A. Harihar , Course Coordinator on or before **01-07-2022**

The classes will commence from **03-07-2022**. Certificate will be issued to the successful students after the completion of the course.

**HEAD**  
Dept. of Cs  
Department of Computer Science  
RTES Arts, Science & Commerce College,  
Ranabennur.

Coordinator



Principal  
**PRINCIPAL**  
R.T.E. Society's Arts, Science &  
Commerce Degree College, RANEBENNUR



**R.T.E.Society's**  
**Art Science And Commerce Ranebnnur-581115**  
**Department of Computer Science**

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DEPARTMENT OF COMPUTER SCIENCE

## Board of Studies Meeting Resolution

Today on 01/12/2022 the B.O.S Members and Co-ordinator discussed and approved the following Syllabus for the certificate Courses in –

- 1) Accounting with Tally
- 2) Office Automation

Dr Madukumar  
IQAC Co-ordinator



  
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Commerce Degree College, RANEBENNUR

  
**H.O.D.**  
Department of Computer Science  
RTES Arts, Science & Commerce College,  
Ranebennur.



**R.T.E.Society's**  
**Art Science And Commerce Ranebnnur-581115**  
**Department of Computer Science**

---

No.:

Date: 15/11/2022

To:  
The Principal  
R.T.E.S CollegeRanebennur

**Sub: Appointment of member for Board of Studies Committee  
For the Certificate Course in Computer Science**

Respected Sir,

This is to bring to your kind information that *Shri. Vimalakar G Shetty* Lecturer Department of Computer Science is appointed as member for Board of Studies for the Certificate Course in Computer Science "Accounting With Tally".

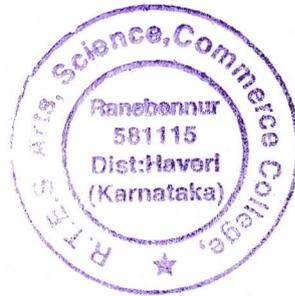
A meeting in this regard is scheduled on 01-12-2021 at 11 am in the Principal Chamber, R.T.E.S College, Ranebennur.

Hence, you are requested to depute him to attend the meeting.

Thanking you,

Principal

*H.O.D.*  
Department of Computer Science  
RTES Arts, Science & Commerce College,  
Ranebennur.



*Principal*  
**PRINCIPAL**  
R.T.E. Society,s Arts, Science &  
Commerce Degree College, RANEBENNUR



**R.T.E.Society's**  
**Art Science And Commerce Ranebnnur-581115**  
**Department of Computer Science**

No.:

Date: 15/11/2022

To:  
The Principal  
R.T.E.S College  
Ranebennur - 581 115

**Sub: Appointment of member for Board of Studies Committee  
For the Certificate Course in Computer Science**

Respected Sir,

This is to bring to your kind information that Prof Rekha Palled *Professor, Department of Computer Science* is appointed as member for Board of Studies for the Certificate Course in Computer Science "Accounting With Tally".

A meeting in this regard is scheduled on 01-12-2022 at 11 am in the Principal Chamber, R.T.E.S College, Ranebennur.

Hence, you are requested to depute her to attend the meeting.

Thanking you,

Principal

  
H.O.D.  
Department of Computer Science  
RTES Arts, Science & Commerce College,  
Ranebennur.



  
PRINCIPAL  
R.T.E. Society,s Arts, Science &  
Commerce Degree College, RANEBENNUR



**R.T.E.Society's**  
**Art Science And Commerce Ranebnnur-581115**  
**Department of Computer Science**

No.:

Date: 15/11/2022

To:

The Principal  
R.T.E.S College  
Ranebennur - 581 115

**Sub: Appointment of member for Board of Studies Committee  
For the Certificate Course in Computer Science**

Respected Sir,

This is to bring to your kind information that Dr *Madukumar* *Department of Computer Science* is appointed as member for Board of Studies for the Certificate Course in Computer Science "Accounting With Tally".

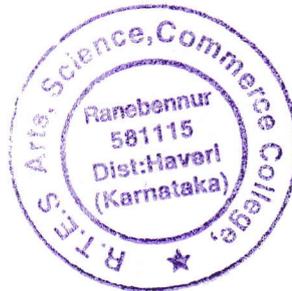
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Hence, you are requested to depute her to attend the meeting.

Thanking you,

Principal

  
H.O.D.  
Department of Computer Science  
RTES Arts, Science & Commerce College,  
Ranebennur.



  
PRINCIPAL  
R.T.E. Society's Arts, Science &  
Commerce Degree College, RANEBENNUR



R.T.E.Society's

# Art Science And Commerce Ranebnnur-581115

Department of Computer Science

Date: 01/12/2022

Name of Course : Certificate Course in Tally ERP 9

Duration : 30 Hrs Modules : 4

## Course Objectives :

1. To impart knowledge regarding concepts of Financial Accounting. Tally is an accounting package which is used for learning to maintain accounts.
2. This course helps students to work with well-known accounting software i.e. Tally ERP.9.
3. To make students capable to create company, enter accounting voucher entries including advance voucher entries, reconcile bank statement, do accrual adjustments, and also print financial statements, etc. in Tally ERP.9 software.
4. Accounting with Tally certificate course is not just theoretical program, but it also includes continuous practice, to make students ready with required skill for employability in the job market.

## Course Outcomes :

1. After successfully qualifying practical examination, students will be awarded certificate to work with well-known accounting software i.e. Tally ERP.9
2. Student by their own will create company, enter accounting voucher entries including advance voucher entries, reconcile bank statements, do accrual adjustments, and also print financial statements, etc. in Tally ERP.9 software.
3. Students will possess required skill and can also be employed as Tally data entry operator.

## Course Pre-requisites :

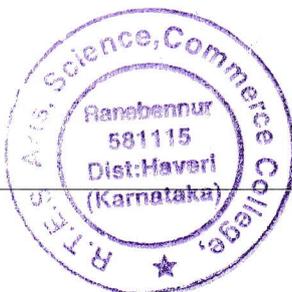
- To get full benefit of this course, the student needs to have basic knowledge of accounting and computer.

## Career Prospects:

- Even if you are currently employed, learning Tally and obtaining a certificate will improve your chances for a promotion or you may even land a better job. Tally will give a much-needed boost to your career by enhancing your knowledge in Accounting, Inventory Management, and Taxation.

This program opens up various avenues for students. After the completion of the program, as a fresher you can begin your career as:

- Accounts executive
- Junior accountant
- Data entry operator
- Accounts assistant
- Tally operator
- Accountant trainee



  
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Ranebennur.

## Course Contents

### Module-1 :

Duration :

10 Hrs.

Chapter I.: Fundamentals of Accounting.

Chapter II: Maintaining Chart of Accounts in Tally ERP Chapter III

: Maintaining Stock Keeping Units (SKU)

Chapter IV : Recording Day-to-Day Transactions in Tally ERP 9

### Module-2:

Duration :

10 Hrs.

10 Hrs Chapter V : Accounts Receivable and Payable Management. Chapter VI :  
MIS Reports.

Chapter VII : Recording Vouchers with TDS

### Module-3:

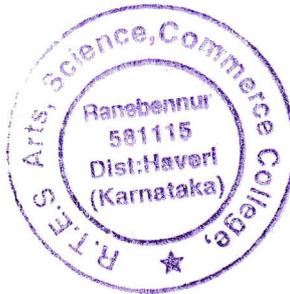
Duration :

10 Hrs.

Chapter VIII: Recording Vouchers with TDS (Tax Deducted at Source) Goods and  
Services Tax (GST) - Introduction

Shortcut Keys Practice

  
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Department of Computer Science  
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Ranebennur.

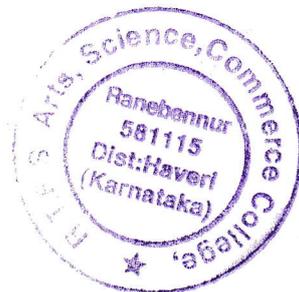


  
PRINCIPAL  
R.T.E. Society, Arts, Science &  
Commerce Degree College, RANEBENNUR

BCOM-V-SEM 2020-21

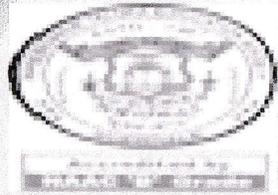
SI NO	STUDENTS NAME	GEN	CAT
1	BASAVARAJ. S. BANAKAR	M	3B
2	CHETANAKUMAR. C. HEGGERI	M	3B
3	CHOLAPPA. B. KICHADI	M	2A
4	GUDDAPA. B. KAMBALI	M	2A
5	H. B. MOHAN	M	3B
6	HARISH. R. MEDLERI	M	3B
7	KANAKARADDI. B. BAJARADDI	M	3A
8	KIRAN. R. GUDIGER	M	3B
9	MAHESHKUMAR. B. BHOMAKKALAVAR	M	3B
10	MANJUNATH. U. KALAPPANAVAR	M	3B
11	MARUTI. C. PATIL	M	3B
12	NAVEEN. M. YARAGUPPI	M	3B
13	PRAKASH. B. CHIKKABIDARI	M	2A
14	RIYAZ. J. AGASIBAGIL	M	C-I
15	SANTOSH. H. RAGIKOPPA	M	3B
16	SHIVANANDA. A. KANNAMMANAVAR	M	ST
17	SUMA. B. BHOMAKKALAVAR	F	3B
18	TEJARAJ. R. DODDANNAVAVAR	M	SC(FF)
19	VIKAS. S. HALAGERI	M	3B
20	VINAYAK. M. SANNINGANNANAVAR	M	3B

H.G.D.  
 Department of Computer Science  
 RTES Arts, Science & Commerce College,  
 Ranebennur.



  
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 R.T.E. Society, s Arts, Science &  
 Commerce Degree College, RANEBENNUR

R.T.E.Society's  
**Arts, Science & Commerce College**  
Ranebennur-581115



VALUE ADD COURSE

**2021-22**

This is certified that Mr /Ms.....*Vilcash S. Halagari*.....  
**Has Successfully Completed all requirements for Completion of  
the computer training course in Accounting With Tally.**

CO-ORDINATOR

*[Signature]*  
ORGANISING  
Department of Computer Science  
SECRETARY  
RTES Arts, Science & Commerce College,  
Ranebennur.

*[Signature]*  
PRINCIPAL  
PRINCIPAL



R.T.E.Society's  
Art Science And Commerce Ranebnnur-581115  
Department of Computer Science

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Department of Computer Science

Certificate Course

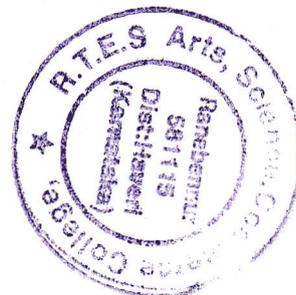
In

**“COMPUTER FUNDAMENTALS  
AND PROGRAMMING IN C”**

Department of Computer Science

Art Science And Commerce Ranebnnur-581115

2021-22





**R.T.E.Society's**  
**Art Science And Commerce Ranebnnur-581115**  
**Department of Computer Science**

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE COURSE

In

**"COMPUTER FUNDAMENTALS AND PROGRAMMING IN C"**

## Course Regulations

**COURSE INTRODUCTION:** 2021

**TITLE OF THE COURSE:** "COMPUTER FUNDAMENTALS AND PROGRAMMING IN C"

**COURSE CODE:** CS11

**ELIGIBILITY FOR ADMISSION TO THE COURSE:** First year students who are pursuing B.Sc Degree Course in R.T.E.S College,Ranebennur.

**DURATION OF THE COURSE:** 30 Hours  
(20 Hours Theory & 10 Hours Practical)

**INTAKE:** Minimum 30

**MEDIUM OF INSTRUCTION AND EXAMINATION:** English

**PATTERN OF EXAMINATION:** Examination contains one Theory paper of Maximum 50 Marks (25 Multiple Choice Questions, each question carries 2 marks). Examination will be conducted at the end of the course. The duration of the examination shall be 30 Minutes.

**AWARD OF CERTIFICATE:** After the completion of the course, an exam will be conducted for 50 marks. Certificate will be issued based on the following grading system:

Marks (Out of 50)	Grade Obtained
40 and above	A
30-39	B
20-29	C
Below 20	D (Fail: No certificate is issued, Student has to reappear for the course / exam.)

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Department of Computer Science  
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Ranebennur.



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## OBJECTIVES OF THE CERTIFICATE COURSE

- To acquaint the students regarding the **COMPUTER FUNDAMENTALS AND PROGRAMMING IN C** which is essentially required for B.Sc Students.
- To understand the basics and features of **COMPUTER FUNDAMENTALS AND PROGRAMMING IN C**.
- To develop an ability among students to use **COMPUTER FUNDAMENTALS AND PROGRAMMING IN C** Corporate World.

## COURSE OUTCOMES:

After the completion of the course, the students will be able to:

- Develop a C program
- Control the sequence of the program and give logical outputs
- Implement strings in your C program
- Store different data types in the same memory
- Manage I/O operations in your C program
- Repeat the sequence of instructions and points for a memory location
- Apply code reusability with functions and pointers
- Understand the basics of file handling mechanisms
- Explain the uses of pre-processors and various memory models

## TARGET AUDIENCE:

The target audiences for the proposed Certificate Course are final year B.Sc students.

## TEACHING METHODS AND ASSIGNMENTS:

Following teaching and learning methods are to be used:

- Theory classes using ICT and other methods of teaching
- Demonstration of the commands while teaching
- Computer Lab for practical

*If offline classes are not possible due to Covid-19 pandemic as per the Government Order, the course shall be handled online.*

HEAD  
Dept. of Cs

Coordinator

Principal

  
**PRINCIPAL**  
R.T.E. Society, Arts, Science &  
Commerce Degree College, RANEBENNUR

  
H.O.D.  
Department of Computer Science  
RTES Arts, Science & Commerce College,  
Ranebennur.





**R.T.E.Society's**  
**Art Science And Commerce Ranebnnur-581115**  
**Department of Computer Science**

DEPARTMENT OF COMPUTER SCIENCE

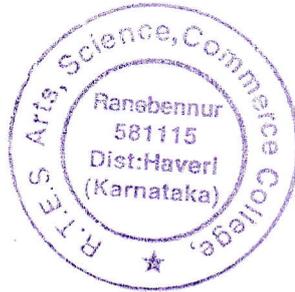
CERTIFICATE COURSE

IN

“  
COMPUTER FUNDAMENTALS AND PROGRAMMING IN C  
”

**BOARD OF STUDIES**

Principal	Prof C.A Harihar
Coordinator	Dr Madukumar IQAC Co-ordinator
Head of Department	Prof.S Patil
Members	1 Rekah Palled R.T.E.S College, Ranebennur



Principal  
**PRINCIPAL**  
R.T.E. Society,s Arts, Science &  
Commerce Degree College, RANEBENNUR

H.O.D.  
Department of Computer Science  
RTES Arts, Science & Commerce College,  
Ranebennur.



**R.T.E.Society's**  
**Art Science And Commerce Ranebnnur-581115**  
**Department of Computer Science**

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DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE COURSE

On

**“COMPUTER FUNDAMENTALS AND PROGRAMMING IN C”**

**NOTICE**

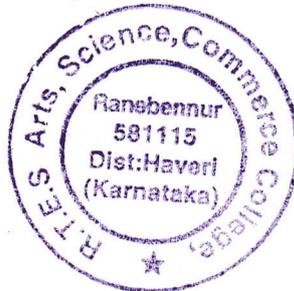
This is to bring to the notice of all the First Year students of B.Sc. Course that the Department of Computer Science is starting a Certificate Course in “COMPUTER FUNDAMENTALS AND PROGRAMMING IN C”

Interested students are hereby informed to enrol their names with Shri. C.A. Harihar , Course Coordinator on or before **01-07-2021**.

The classes will commence from **03-07-2021**. Certificate will be issued to the successful students after the completion of the course.

HEAD  
H.O.D.  
Department of Computer Science  
RTES Arts, Science & Commerce College,  
Ranebennur.

Coordinator



Principal  
PRINCIPAL  
R.T.E. Society's Arts, Science &  
Commerce Degree College, RANEBENNUR



**R.T.E.Society's**  
**Art Science And Commerce Ranebnnur-581115**  
**Department of Computer Science**

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DEPARTMENT OF COMPUTER SCIENCE

## Board of Studies Meeting Resolution

Today on 01/12/2020 the B.O.S Members and Co-ordinator discussed and approved the following Syllabus for the certificate Courses in –

- 1) **COMPUTER FUNDAMENTALS AND PROGRAMMING IN C**

IQAC Co-ordinator

  
H.O.D.  
Department of Computer Science  
RTES Arts, Science & Commerce College,  
Ranabennur.



  
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Commerce Degree College, RANEBENNUR



**R.T.E.Society's**  
**Art Science And Commerce Ranebnnur-581115**  
**Department of Computer Science**

---

No.:

Date: 15/11/2021

To:  
The Principal  
R.T.E.S CollegeRanebennur

**Sub: Appointment of member for Board of Studies Committee  
For the Certificate Course in Computer Science**

Respected Sir,

This is to bring to your kind information that *Rekha Palled Lecturer Department of Computer Science* is appointed as member for Board of Studies for the Certificate Course in Computer Science "COMPUTER FUNDAMENTALS AND PROGRAMMING IN C".

A meeting in this regard is scheduled on 01-12-2021 at 11 am in the Principal Chamber, R.T.E.S College, Ranebennur.

Hence, you are requested to depute him to attend the meeting.

Thanking you,

  
H.S.D.  
Department of Computer Science  
RTES Arts, Science & Commerce College,  
Ranebennur.



  
Principal  
**PRINCIPAL**  
R.T.E. Society's Arts, Science &  
Commerce Degree College, RANEBENNUR



**R.T.E.Society's**  
**Art Science And Commerce Ranebnnur-581115**  
**Department of Computer Science**

No.:

Date: 15/11/2021

To:  
The Principal  
R.T.E.S College  
Ranebennur - 581 115

**Sub: Appointment of member for Board of Studies Committee  
For the Certificate Course in Computer Science**

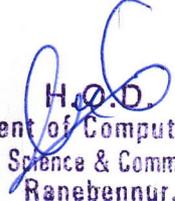
Respected Sir,

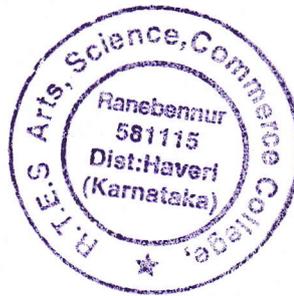
This is to bring to your kind information that Sri Vimalakar G Shetty  
*Professor, Department of Computer Science* is appointed as member for Board of  
Studies for the Certificate Course in Computer Science "COMPUTER  
FUNDAMENTALS AND PROGRAMMING IN C".

A meeting in this regard is scheduled on 01-12-2021 at 11  
am in the Principal Chamber, R.T.E.S College, Ranebennur.

Hence, you are requested to depute her to attend the  
meeting.

Thanking you,

  
H.O.D.  
Department of Computer Science  
RTES Arts, Science & Commerce College,  
Ranebennur.



  
Principal  
**PRINCIPAL**  
R.T.E. Society,s Arts, Science &  
Commerce Degree College, RANEBE.....?



**R.T.E.Society's**  
**Art Science And Commerce Ranebnnur-581115**  
**Department of Computer Science**

No.:

Date: 15/11/2021

To:

The Principal  
R.T.E.S College  
Ranebennur - 581 115

**Sub: Appointment of member for Board of Studies Committee  
For the Certificate Course in Computer Science**

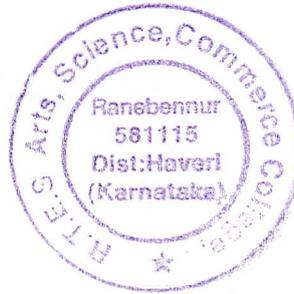
Respected Sir,

This is to bring to your kind information that Dr Madukumar  
*Department of Computer Science* is appointed as member for Board of  
Studies for the Certificate Course in Computer Science "COMPUTER  
FUNDAMENTALS AND PROGRAMMING IN C".

A meeting in this regard is scheduled on 01-12-2021 at 11  
am in the Principal Chamber, R.T.E.S College, Ranebennur.

Hence, you are requested to depute her to attend the  
meeting.

Thanking you,



Principal  
**PRINCIPAL**  
R.T.E. Society, Arts, Science &  
Commerce Degree College, RANEBENNUR

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Department of Computer Science  
RTES Arts, Science & Commerce College,  
Ranebennur.



**R.T.E.Society's**  
**Art Science And Commerce Ranebnnur-581115**  
**Department of Computer Science**

Date: 01/12/2020

**COMPUTER FUNDAMENTALS AND PROGRAMMING IN C**

**Course Content**

Content	30 Hours
<b>Unit – 1</b>	
<p><b>Fundamentals of Computers:</b> Introduction to Computers - Computer Definition, Characteristics of Computers, Evolution and History of Computers, Types of Computers, Basic Organisation of a Digital Computer; Number Systems – different types, conversion from one number system to another; Computer Codes – BCD, Gray Code, ASCII and Unicode; Boolean Algebra – Boolean Operators with Truth Tables; Types of Software – System Software and Utility Software; Computer Languages - Machine Level, Assembly Level &amp; High Level Languages, Translator Programs – Assembler, Interpreter and Compiler; Planning a Computer Program - Algorithm, Flowchart and Pseudo code with Examples.</p> <p><b>Introduction to C Programming:</b> Over View of C; History and Features of C; Structure of a C Program with Examples; Creating and Executing a C Program; Compilation process in C.</p> <p><b>C Programming Basic Concepts:</b> C Character Set; C tokens - keywords, identifiers, constants, and variables; Data types; Declaration &amp; initialization of variables; Symbolic constants.</p>	08
<b>Unit – 2</b>	
<p><b>Input and output with C:</b> Formatted I/O functions - <i>printf</i> and <i>scanf</i>, control stings and escape sequences, output specifications with <i>printf</i> functions; Unformatted I/O functions to read and display single character and a string - <i>getchar</i>, <i>putchar</i>, <i>gets</i> and <i>puts</i> functions.</p> <p><b>C Operators &amp; Expressions:</b> Arithmetic operators; Relational operators; Logical operators; Assignment operators; Increment &amp; Decrement operators; Bitwise operators; Conditional operator; Special operators; Operator Precedence and Associativity; Evaluation of arithmetic expressions; Type conversion.</p>	12

H.O.D.

Department of Computer Science  
RTES Arts, Science & Commerce College,  
Ranebennur.



PRINCIPAL  
R.T.E. Society's Arts, Science &  
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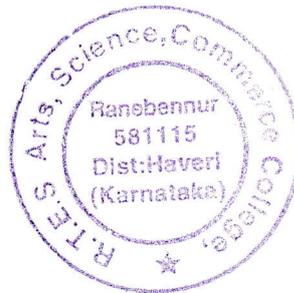
<b>Unit - 3</b>	
<p><b>Control Structures:</b> Decision making Statements - <i>Simple if, if_else, nested if_else, else_if ladder, Switch-case, goto, break &amp; continue</i> statements; Looping Statements - Entry controlled and Exit controlled statements, <i>while, do-while, for</i> loops, Nested loops.</p> <p>Arrays: One Dimensional arrays - Declaration, Initialization and Memory representation; Two Dimensional arrays - Declaration, Initialization and Memory representation.</p> <p>Strings: Declaring &amp; Initializing string variables; String handling functions - <i>strlen, strcmp, strcpy and strcat</i>; Character handling functions - <i>toascii, toupper, tolower, isalpha, isnumeric</i> etc.</p>	10
<b>Unit - 4</b>	
<p><b>Pointers in C:</b> Understanding pointers - Declaring and initializing pointers, accessing address and value of variables using pointers; Pointers and Arrays; Pointer Arithmetic; Advantages and disadvantages of using pointers;</p> <p><b>User Defined Functions:</b> Need for user defined functions; Format of C user defined functions; Components of user defined functions - return type, name, parameter list, function body, return statement and function call; Categories of user defined functions - With and without parameters and return type.</p> <p><b>User defined data types:</b> Structures - Structure Definition, Advantages of Structure, declaring structure variables, accessing structure members, Structure members initialization, comparing structure variables, Array of Structures; Unions - Union definition; difference between Structures and Unions.</p>	10

### Text Books

1. Pradeep K. Sinha and Priti Sinha: Computer Fundamentals (Sixth Edition), BPB Publication
2. M.T Somashekara, D.S Guru and K.S. Manjunatha: Problem solving with C, PHI publication
3. E. Balgurusamy: Programming in ANSI C (TMH)

### References

1. Kamthane: Programming with ANSI and TURBO C (Pearson Education)
2. V. Rajaraman: Programming in C (PHI - EEE)
3. S. ByronGottfried: Programming with C (TMH)
4. Kernighan & Ritche: The C Programming Language (PHI)
5. Yashwant Kanitkar: Let us C
6. P.B. Kottur: Programming in C (Sapna Book House)



*[Signature]*  
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BSC--V-SEM 2020-21

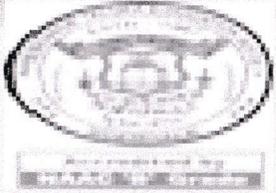
SI NO	STUDENTS NAME	GEN	CAT
1	ABHISHEK .R. DEVARADDI	M	3A FF
2	ADARSH .B. BENNUR	M	3B FF
3	ADITYA .V.	M	SC
4	AISHWARYA .H. ALLAPUR	F	2A FF
5	AKASH .R. MARITAMMANAVAR	M	3A FF
6	AKSHATA .D. PUJAR	F	SC
7	AMULYA .M. SURANAGI	F	3B FF
8	ANITA .P. DANAPPANAVAR	F	3B FF
9	ANKITA .A. RAHUTANAKATTI	F	2A FF
10	ANUSHA .C. GURULINGAPPAGAUDRA	F	3B FF
11	ANUSHA .L. HANUMAREDDAR	F	3A FF
12	ARCHANA .S. BATTAL	F	3A FF
13	ARUN .G. KANAKARADDY	M	3A FF
14	ARUNKUMAR .N. BIDARAKATTI	M	3B FF
15	BASAVARAJ .S.HUCHHARAYAPPANAVAR	M	3B FF
16	BEERESH .M. KARLINGAPPANAVAR	M	2A FF
17	BHARATAGOUDA .V. KANNAGOUDRA	M	3B FF
18	BHARATAKUMAR .S. MAGANUR	M	3B FF
19	BHOOMIKA .N. GANAD	F	2A FF
20	BHUMIKA .Y. PUJAR	F	3A FF



  
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**Arts, Science & Commerce College**  
Ranebnnur-581115



VALUE ADD COURSE

**2021-22**

This is certified that Mr /Ms.....*Archona S. Battal*.....

**Has Successfully Completed all requirements for Completion of  
the computer training course in COMPUTER FUNDAMENTALS  
AND PROGRAMMING IN C.**

CO-ORDINATOR

*[Signature]*  
H.O.D.  
Department of Computer Science  
RTES Arts, Science & Commerce College,  
Ranebnnur-581115  
**ORGANISING  
SECRETARY**

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**PRINCIPAL**



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Department of Computer Science

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Department of Computer Science

Certificate Course

In

“Office Automation”

Department of Computer Science

Art Science And Commerce Ranebnnur-581115

2021-22





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**Department of Computer Science**

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE COURSE

In

“Office Automation”

**Course Regulations**

**COURSE INTRODUCTION:** 2020

**TITLE OF THE COURSE:** “Office Automation”

**COURSE CODE:** CS11

**ELIGIBILITY FOR ADMISSION TO THE COURSE:** First year students who are pursuing B.Sc Degree Course in R.T.E.S College,Ranebennur.

**DURATION OF THE COURSE:** 30 Hours  
(20 Hours Theory & 10 Hours Practical)

**INTAKE:** Minimum 30

**MEDIUM OF INSTRUCTION AND EXAMINATION:** English

**PATTERN OF EXAMINATION:** Examination contains one Theory paper of Maximum 50 Marks (25 Multiple Choice Questions, each question carries 2 marks). Examination will be conducted at the end of the course. The duration of the examination shall be 30 Minutes.

**AWARD OF CERTIFICATE:** After the completion of the course, an exam will be conducted for 50 marks. Certificate will be issued based on the following grading system:

<b>Marks (Out of 50)</b>	<b>Grade Obtained</b>
40 and above	A
30-39	B
20-29	C
Below 20	D (Fail: No certificate is issued, Student has to reappear for the course / exam.)

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## OBJECTIVES OF THE CERTIFICATE COURSE

- To acquaint the students regarding the Office Automation which is Required for Arts Students.
- To understand the basics and features of Office Automation.
- To develop an ability among students to use Computer in Future in Corporate World.
- To improve the Knowledge in office Automation.

After the completion of the course, the students will be able to compete in Corporate World.

## PURPOSE OF THE COURSE:

The trend of Office Automation. usage in India has been increasing because of Computer Knowledge and many such features. Arts graduates learn this Office Automation from other institutes during / post their graduation by paying fees. This was mainly because of Computer knowledge being taught in academics as per the University syllabus. To fill this gap, the Department of Computer Science has initiated a Certificate Course on "Office Automation" to its B.Sc students at free of cost.

## COURSE OUTCOMES:

After the completion of the course, the students will be able to:

1. Identify, understand and use Office Automation Gives the Knowledge Of Computer and Uses in Future.
2. Organize Carrier Building.
3. Have ability to manage Computers in Future.

## TARGET AUDIENCE:

The target audiences for the proposed Certificate Course are first year B.Sc. students.

## TEACHING METHODS AND ASSIGNMENTS:

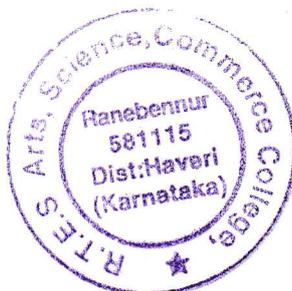
Following teaching and learning methods are to be used:

- Theory classes using ICT and other methods of teaching
- Demonstration of the commands while teaching
- Computer Lab for practical

*If offline classes are not possible due to Covid-19 pandemic as per the Government Order, the course shall be handled online.*

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Ranebennur.

Coordinator



Principal  
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**Art Science And Commerce Ranebnnur-581115**  
**Department of Computer Science**

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE COURSE

IN

**“Office Automation”**  
**BOARD OF STUDIES**

Principal	Prof F.H Machenhalli
Coordinator	Prof C.A Harihar IQAC Co-ordinator
Head of Department	Prof.S Patil
Members	1 Mr Vimalakar G Shetye R.T.E.S College, Ranebennur



Principal  
*[Signature]*  
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Department of Computer Science

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DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE COURSE

On

“Office Automation”

**NOTICE**

This is to bring to the notice of all the First Year students of B.Sc. Course that the Department of Computer Science is starting a Certificate Course in “Office Automation”

Interested students are hereby informed to enrol their names with Shri. C.A. Harihar , Course Coordinator on or before **01-07-2021**.

The classes will commence from **03-07-2021**. Certificate will be issued to the successful students after the completion of the course.

H. HEAD  
Department of Computer Science  
RTES Arts, Science & Commerce College,  
Ranebennur.

Coordinator



Principal  
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**Department of Computer Science**

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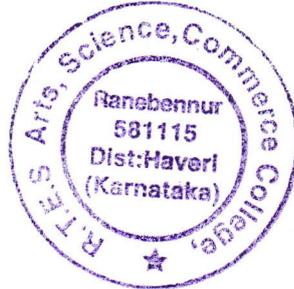
DEPARTMENT OF COMPUTER SCIENCE

## Board of Studies Meeting Resolution

Today on 01/12/2021 the B.O.S Members and Co-ordinator discussed and approved the following Syllabus for the certificate Courses in –

- 1) Accounting with Tally
- 2) Office Automation

Sri S.Patil  
IQAC Co-ordinator



  
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No.:

Date: 15/11/2020

To:  
The Principal  
R.T.E.S CollegeRanebennur

**Sub: Appointment of member for Board of Studies Committee  
For the Certificate Course in Computer Science**

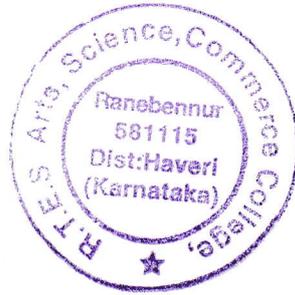
Respected Sir,

This is to bring to your kind information that *Shri. Vimalakar G Shetty* Lecturer Department of Computer Science is appointed as member for Board of Studies for the Certificate Course in Computer Science "Office Automation".

A meeting in this regard is scheduled on 01-12-2021 at 11 am in the Principal Chamber, R.T.E.S College, Ranebennur.

Hence, you are requested to depute him to attend the meeting.

Thanking you,



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Principal  
  
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**R.T.E.Society's**  
**Art Science And Commerce Ranebnnur-581115**  
**Department of Computer Science**

No.:

Date: 15/11/2019

To:  
The Principal  
R.T.E.S College  
Ranebennur - 581 115

**Sub: Appointment of member for Board of Studies Committee  
For the Certificate Course in Computer Science**

Respected Sir,

This is to bring to your kind information that Sri S.Patil *Professor,*  
*Department of Computer Science* is appointed as member for Board of Studies for  
the Certificate Course in Computer Science "Office Automation".

A meeting in this regard is scheduled on 01-12-2020 at 11  
am in the Principal Chamber, R.T.E.S College, Ranebennur.

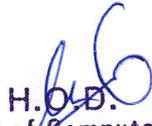
Hence, you are requested to depute her to attend the  
meeting.

Thanking you,

Principal



  
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**R.T.E.Society's**  
**Art Science And Commerce Ranebnnur-581115**  
**Department of Computer Science**

No.:

Date: 15/11/2019

To:  
The Principal  
R.T.E.S College  
Ranebennur - 581 115

**Sub: Appointment of member for Board of Studies Committee  
For the Certificate Course in Computer Science**

Respected Sir,

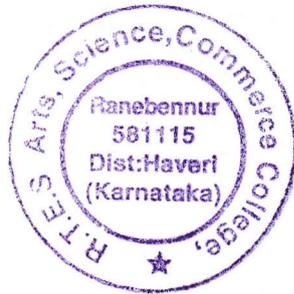
This is to bring to your kind information that Sri *C.A Haiharr* *Department of Computer Science* is appointed as member for Board of Studies for the Certificate Course in Computer Science "Office Automation".

A meeting in this regard is scheduled on 01-12-2020 at 11 am in the Principal Chamber, R.T.E.S College, Ranebennur.

Hence, you are requested to depute her to attend the meeting.

Thanking you,

Principa



  
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**Department of Computer Science**

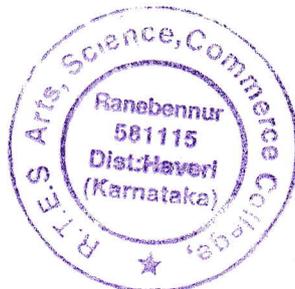
Date: 01/12/2020

**Office Automation Syllabus**

Sl. No.	Topic covered
1	<p><b>Introduction to Computer:</b> Definition - History &amp; Generation of Computer (From First to 5<sup>th</sup>) - Applications of Computer – Advantages of Computer – Terms related to Computer - Characteristics of Computer: Principle of Computer - Types of Computer: On the Basis of Working - Analog, Digital &amp; Hybrid, On the Basis of Size - Main frame, Mini Computer, Super Computer, Work station, Micro Computer, Desktop Computer, Laptop Computer, Palmtop Computer; On the basis of Processor – XT, AT &amp; Pentium(i3, i5, i7); <b>Memory:</b> Units, Representation, Types - Primary memory: RAM, ROM, PROM, EPROM, EEPROM, DDR Secondary memory: Hard disk, CD, DVD, Blue ray Disc, Pen Drive Magnetic tape &amp; Zip disk – <b>CPU:</b> Components of CPU - Mother board, Hard disk, RAM, ROM, Processor, SMPS &amp; Connecting wire - Graphics Card, Sound Card, Network Card – Modem; <b>Input, Output devices:</b> Keyboard, Mouse, Scanner, Digital Camera, Joystick, Pen drive, Monitor, Printer, Plotter – Connecting port – Serial, parallel – USB port.</p> <p><b>Computer Networks:</b> Data Communications –Types of Computer Networks – Local Area Networks&amp; Wide Area Networks.</p>
2	<p><b>Definition of Operating System</b> - Functions of OS - Types of OS: Single user, Multi-User, multi-task, RTOS, Single-user, Multi-tasking – <b>Windows Desk top</b> - <b>GUI:</b> Definition, Standards, Cursors/Pointers, Icons, GUI Menus, GUI-Share Data – <b>Desktop icons and their functions:</b> Mycomputer, My documents, Network neighbourhood, Recycle Bin, Quick launch tool bar, System tray, Start menu, Task bar – <b>Dialog Boxes:</b> List Box, Spin Control Box, Slide, Drop-down list, Radiobutton, Check box, Text box, <b>Task Bar</b> - System Tray - Quick launch tool bar - Start button - <b>Parts of Windows</b> -Title bar-Menu bar - Scroll bar-Status bar, Maximize, Minimize, close and Resize &amp; Moving a Window – <b>Windows</b> - Start Menu –Help Menu- Preview Menu; <b>Logoff &amp; Shutdown</b> –</p>

H.O.D.

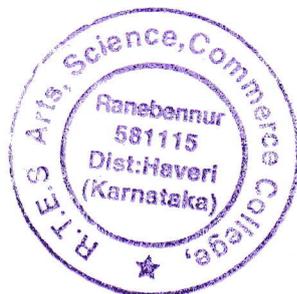
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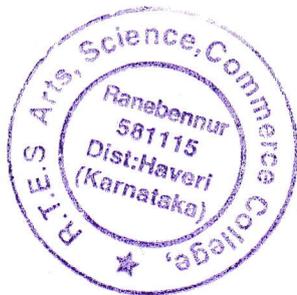
3	<p><b>MS Word - Working with Documents</b> -Opening &amp; Saving files, Editing text documents, Inserting,Deleting, Cut, Copy, Paste, Undo, Redo, Find, Search, Replace, Formatting page &amp; setting Margins, Converting files to different formats, Importing &amp; Exporting documents, Sending files to others, Using Tool bars, Ruler, Using Icons, using help,</p> <p><b>Formatting Documents</b> - Setting Font styles, Font selection- style, size, colour etc, Type face - Bold, Italic, Underline, Case settings, Highlighting, Special symbols, Setting Paragraph style, Alignments, Indents, Line Space, Margins, Bullets &amp; Numbering. <b>Setting Page style</b> - Formatting Page, Page tab, Margins, Layout settings, Paper tray, Border &amp; Shading, Columns, Header &amp; footer,</p>
4	<p><b>Introduction to MS Office – MS Excel and Open Office – Calc:</b></p> <p><b>MS Excel:</b> Spread Sheet &amp; its Applications, Opening Spreadsheet, Menus - main menu, Formula Editing, Formatting, Toolbars, Using Icons, Using help, Shortcuts, Spreadsheet types. Working with Spreadsheets- opening, Saving files, setting Margins, Converting files to different formats (importing,exporting, sending files to others), Spread sheet addressing - Rows, Columns &amp; Cells, Referring Cells &amp; Selecting Cells – Shortcut Keys. <b>Entering &amp; Deleting Data-</b> Entering data, Cut, Copy, Paste, Undo, Redo, Filling Continuous rows, columns, Highlighting values, Find, Search &amp; replace, Inserting Data, Insert Cells, Column, rows &amp; sheets, Symbols, Data from external files, Frames, Clipart, Pictures, Files etc, Inserting Functions, Manual breaks, <b>Setting Formula</b> - finding total in a column or row, Mathematical operations (Addition, Subtraction, Multiplication, Division, Exponentiation), Using other Formulae. <b>Formatting Spreadsheets-</b> Labelling columns &amp; rows, Formatting- Cell, row, column &amp; Sheet, Category - Alignment, Font, Border &amp; Shading, Hiding/ Locking Cells, Anchoring objects, Formatting layout for Graphics, Clipart etc., Worksheet Row &amp; Column Headers, Sheet Name, Row height &amp; Column width, Visibility - Row, Column, Sheet, Security, Sheet Formatting &amp; style, Sheet background, Colour etc, Borders &amp; Shading – Shortcut keys. <b>Working with sheets</b> – Sorting, Filtering, Validation, Consolidation, and Subtotal. <b>Creating Charts</b> - Drawing. <b>Printing. Using Tools</b> – Error checking, Spell Checks, Formula Auditing, Creating &amp; Using Templates, Pivot Tables, Tracking Changes, Security, Customization.</p> <p><b>OpenOffice-Calc - Introduction</b> – Introduction to Spreadsheets, Overview of a Worksheet, Creating Worksheet &amp; Workbooks, Organizing files, Managing files &amp; workbooks, Functions &amp; Formulas, Working with Multiple sheets, Creating Charts &amp; Printing Charts – Operating withMS Excel documents, which are already created and saved in MS Excel.</p>

  
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5	<p><b>Introduction to MS Office-MS Power Point and Open Office-Impress:</b></p> <p><b>MS Power point:</b> Introduction to presentation – Opening new presentation, Different presentation templates, Setting backgrounds, Selecting presentation layouts. <b>Creating a presentation</b> - Setting Presentation style, Adding text to the Presentation. <b>Formatting a Presentation</b> - Adding style, Colour, gradient fills, Arranging objects, Adding Header &amp; Footer, Slide Background, Slide layout. Adding Graphics to the Presentation- Inserting pictures, movies, tables etc into presentation, Drawing Pictures using Draw. <b>Adding Effects to the Presentation-</b> Setting Animation &amp; transition effect. <b>Printing Handouts,</b> Generating Standalone Presentation viewer.</p> <p><b>OpenOffice-Impress - Introduction</b> – Creating Presentation, Saving Presentation Files, Master Templates &amp; Re-usability, Slide Transition, Making Presentation CDs, Printing Handouts – Operating with MS Power Point files / slides.</p>
6	<p><b>Internet and Web Browsers:</b> Definition &amp; History of Internet - Uses of Internet - Definition of Web- Addressing-URL-Different types of Internet Connections; Dial up connection, Broad band ( ISDN, DSL, Cable), Wireless ( Wi-Fi, WiMax, Satellite, Mobile) naming convention, browsers and its types, internet browsing, searching - Search Engines - Portals - Social Networking sites- Blogs - viewing a webpage, downloading and uploading the website; Creating an email-ID, e-mail reading, saving, printing, forwarding and deleting the mails, checking the mails, viewing and running file attachments, addressing with cc and bcc.</p> <p><b>Introduction to various devices &amp; Applications:</b> Other than the computers, (electronic gadgets), which are widely using by executives in the Offices – Tablet, Smart Phone – concept of mobile phone and Tablet and their uses – Various applications using by Tablets and Smart Phones such as UC browser, WhatsApp, Maps, Skype.</p>



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*[Handwritten Signature]*  
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 Ranebennur.

## BSc-1SEM 2020-21

SI NO	STUDENTS NAME	GEN	CAT
1	NAGANAGOUDA. D. BELOLLI	M	3B
2	CHANDRAPPA MAGOD	M	SC
3	MANJUNATH. K. HULMANI	M	3A
4	ABHILASHA. M. BAVALLI	M	C-I
5	ABHISHEK. S. DODDAMANI	M	SC (FF)
6	ANU. K. HALLALLI	F	2A
7	ASHOK. H. AMBALI	M	2A
8	BASAVARAJ. C. HOLIYAPPANAVAR	M	2A
9	BHEEMANAGOUDA. H. K.	M	3B
10	CHIDANANDA. M. BANAKAR	M	2A
11	DODDANEELAPPA. B. BILLANNANAVAR	M	2A
12	FBNEZER. A. MAILAR	M	3B
13	GANESH. K. LAMANI	M	SC
14	HANUMANT. C. SAMSHI	M	2A
15	HANUMANTAPPA. S. LAMANI	M	SC
16	HANUMANTHAPPA. D. KAJJARI	M	2A
17	HONNAPPA. H. KANAVALLI	M	2A
18	JAGADEESH. K. CHIKKAMMANAVAR	M	2A
19	KIRAN. G. MALAGER	M	SC
20	KUMAR. H. GAVIYAVAR	M	2A



*[Signature]*  
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Ranebennur-581115

VALUE ADD COURSE

2021-22

This is certified that Mr /Ms..... *Kiran G M* .....

**Has Successfully Completed all requirements for Completion of the computer training course in Office Automation.**

CO-ORDINATOR

*[Signature]*  
ORGANISING  
Department of Computer Science  
SECRETARY  
Arts, Science & Commerce College,  
Ranebennur.

*[Signature]*  
PRINCIPAL