

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL-15

(An Autonomous Institute under Kakatiya University, Warangal)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (Networks)

MINUTES OF THE MEETING OF BOARD OF STUDIES (BoS) in **COMPUTER SCIENCE & ENGINEERING (Networks)** Held at 10.00 AM on 03.08.2024 (Saturday) In Hybrid Mode Venue: Industrial IoT Laboratory

Agenda:

- 1 Approval of the scheme of instruction of B.Tech. CSE (Networks) program underURR24
- 2 Approval of the syllabus of B.Tech. CSE (Networks) program I & II semesters underURR24
- 3. Approval of rules and regulations under URR24
- 4. All Other Item with the Permissions of chair.

Members Present:

S.No.	Name	Designation	Present/Absent
1	Dr.V.Shankar	Professor, Dept of CSE(N)Warangal	3
2.	Dr.R.Padmavathy	Professor, Dept of CSE,NIT Warangal	Present
3.	Dr.Vinay Raj	Assistant professor Dept of computer Applications NIT Tiruchirapalli	Present
4.	Mrs.Seema Vodithala	Enginnering Management-BMJ,BMA House ,Tavistock Square London WC1H 9JR,United Kingdom	virtual
5.	Dr.Kishore Kumar	University College of Kothagudem Kakatiya University	Present
6.	Sri.S.Pranay	Academic Relationship Manager,TCS	Present
, 7.	Sri.Girish Ahankari	Vice President , Enginnering at Kore ai Hyderabad	Absent
8.	Dr.N.V.K.Stanley Raju	Technology Architect Infosys Ltd(STP),Hyderabad	Absent
9.	Sri.Pavan Kumar Chittem	INFOSYS LIMITED Technology Lead	Present
10.	Shobhana Pingli	Techanical Consulting Engineer Cx-Enterprise Wireless TAC Cisco Systems India Private Limited	Present

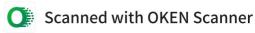
Minutes of Meeting of BoS-B.Tech. - CSE (Networks)

03.08.2024

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11.	Vinay Kumar Bajjuri	Senior Consultant OPEN TEXT	
	e de la companya de l	Internal BoS Members	g (b) (b) (b) (b)
12.	Dr.S.Venkatramulu	Assistant professor	Presen
13.	Dr.V.Chandra shekar	Assistant professor	Present
10.	Rao		Present
14.	Dr. V. Swathy	Assistant professor	
15.	B.Sidhara Murthy	Assistant professor	Present
16.	Dr. Kumar Dorthi	Assistant professor	Present
17.	Dr. A. Godavari	Assistant professor	Present
18.	Sri D. Ramesh	Assistant professor	Present
19.	Mrs. T. Anusha	Assistant professor	Present
20.	Mrs. T. Shruthi	Assistant professor	Present
21.	Mrs. K. Shirisha	Assistant professor	Present
22.	Sri Ch. Jayanth babu	Assistant professor	Present
23.	Sri K.Ravi kanth	Assistant professor	Present
24.	Smt M.Susmitha	Assistant professor	Present
25.	Smt. P. Priyanka	Assistant professor	Present
26.	Sri V. Srinivas	Assistant professor	Present
27.	Smt M. Shirisha	Assistant professor	Present
28.	Smt.M.Priyadarshini	Assistant professor	Present
29.	Sri S. Ravi	Assistant professor	Present



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30.	Sri J. Sathish	Assistant professor	Present
31.	M.Soumya	Assistant professor	Present
32.	R.Vijay kumar	Assistant professor	Present
33.	CH.Shiva Kumar	Assistant professor	Present
34.	T.Sravanthi	Assistant professor	Present
35.	Dr.B.V.Pranay Kumar	Assistant professor	Present
36.	K Spandana	Assistant professor	Present
37.	T.Venkatesh	Assistant professor	Present
38.	K.Sai Ram	Assistant professor	Present
39.	L.Sujith Kumar	Assistant professor	Present
40.	K.shruthi	Assistant professor	Present
41.	Y.Soujanya Reddy	Assistant professor	Present

BoS meeting of Computer Science and Engineering (Networks) Department was conducted on 03.08.2024, from 11:00 AM to 1:30 PM Hybrid mode through Microsoft Teams

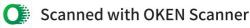
Ten (10) external members and all the Internal BoS members attended the online meeting conducted through MS Teams platform

All the BoS members offered their valuable suggestions

Minutes of Meeting of BoS-B.Tech. - CSE (Networks)

03.08.2024

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Details of the meeting

The meeting commenced at 11:00 AM and was presided over by the Chairman, BoS. At the outset, the Chairman, BoS welcomed the members to the meeting to discuss the pre-notified items on the agenda and sought approval.

- $\ \square$ At the outset, the Chairman presented his views that the engineering programs are required to impart required Knowledge (K), Skills (S) and Qualities (Q) (values
 - and attitude) and facilitate students to acquire the characteristics of good engineer. The KSQ imparted to the students will make them industry ready and also capable of entering Institutes of National Importance for higher education and research.
- ☐ The chairman informed the BoS members that industry experts and alumni have been contacted for inputs in preparing URR24 industry ready curriculum. The expected competencies (both Technical and generic competencies) to be demonstrated by the graduates of B.Tech. CSE (Networks) programs along with the target industries/research organizations have been identified. The courses (theory & Labs) for the B.Tech. CSE (Networks) program me have been identified by mapping the desired competencies with courses and prepared the blueprint of the scheme.
- □ Learning tracks for Placements (core & IT/ITES), higher education and research are identified for the benefit of students
- $\hfill \square$ The members of BoS have been informed about the following new components that are newly introduced in the curriculum under URR24 regulations.

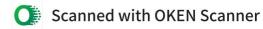
Component introduced	Semester	Total credits	Justification
Multidisciplinary Open Electives Courses (MOPEC)	V, VII &VIII	9	To give exposure on interdisciplinary and cross disciplinary domains.



Practicum	I, II, III &IV	4	For experiential learning to impart problem-solving, critical thinking, and communication skills
Startups & Entrepreneurship (STE) basket	V	3	To inspire and prepare the graduates with startup and entrepreneurial mindset
Social Empowerment Activities (SEA) and Self Accomplishment Activities (SAA)	I, II, III &IV	4	To ensure all dimensional holistic growth of the learner
Expert Talk Series	I, II, III,IV, V &VI	6	To provide graduates with up-to-date industry relevant knowledge and technological trends in their respective fields

The members of BoS have also been informed that as per NEP 2020 guidelines, Multiple Entry Multiple Exit (MEME) option has been introduced in the program me.

S.No.	Exit Descriptio n	Exit Point	Degree/Certificat e offered	Goa 1
1.	First Exit	After completion of First year.	UG Certificate inCSE (Networks)	The student should be employable as Technical Assistant CSE (Data Science) in any industry / organization.
2.	Second Exit	After completion ofSecond year.	UG Diploma in CSECSE (Networks)	The student should be employable as Technician (CSE (Data Science)) in any industry/organization.
3.	Third Exit	After completion ofThird year.	B. Voc in CSE (Networks	The student should be employable as Technical Supervisor (CSE (Data Science)) in any industry/organization.





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4.	Normal	After	B.Tech. in	The student should be
	Exit	completion	CSE	employableas an Engineer
		ofFourth	(Networks)	(CSE (Data Science)) in any
		year.	,	relevant
				industry/organization.

The members of BoS have been informed that the following degrees can be awardedfor fast learners (students need to acquire additional credits by completing additional courses/research)

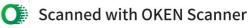
- o B. Tech with "Minor"
- o B. Tech "Honors"
- o B. Tech "Honors with Research"

The BoS members have been informed that the curriculum is designed to offer **four** baskets of Program me Electives, each basket having identified courses corresponding to the program me specializations called verticals. This enables learners to grow in a domain specialization or domain vertical. The student can opt for courses in the sequel (PEC-1 to PEC-4) in any of the specific verticals or across the verticals. If a student completes the sequel of courses PEC-1 to PEC-4 listed under a specific vertical, that specific vertical will be mentioned in his/her degree certificate, as specialization.

 Respected external members have given following inputs and suggestions for thecurriculum revision under URR24.

Suggestions Received from External BoS Members:

S.N o.	Name	Suggestions / Inputs Received (ATTR)	Action to be Taken (ATR)
1	Dr.V.Shankar Professor, Dept of CSE(N)Warangal	Chairperson, BoS- CSE(N)	
2	Dr.R.Padmavathy Professor, Dept of CSE,NIT Warangal.	 If possible, Separate the subjects MI. If possible, Separate the Syllabus of TOC and CD 	We conveyed; it is not possible. We conveyed; it is not possible.
3.	Dr.Vinay Raj Assistant professor Dept of computer Applications NIT Tiruchirapalli	No Remarks	
4.	Mrs.Seema Vodithala Enginnering Management- BMJ,BMA House ,Tavistock Square London WC1H 9JR,United Kingdom	No Remarks	-
5.	Dr.Kishore Kumar University College of Kothagudem Kakatiya University	No Remarks	-
6.	Sri Sahay.Pranay Technology Head Next GenR&D COE Technology Software & Services Business Group TCS, Hyderabad.	1.Incoropate GRPC &GNMI Protocols in Network automation course. 2.Internetwork and Virtualization 3.Instead of using Windows OS better to use Linux/Unix.	Concepts can be incorporated in appropriate course. Concepts can be incorporated in appropriate course



7.	Sri.Girish Ahankari Vice President Enginnering at Kore ai Hyderabad	-	-
8	Dr.N.V.K.Stanley Raju Technology Architect Infosys Ltd(STP),Hyderabad	-	-
9.	Sri.Pavan Kumar Chittem INFOSYS LIMITED Technology Lead	No Remarks	-
10	Shobhana Pingli Techanical Consulting Engineer Cx-Enterprise Wireless TAC Cisco Systems India Private Limited	No Remarks	-
11	Vinay Kumar Bajjuri Senior Consultant OPEN TEXT	1.Instead of practicing regular C & DS lab better to use hacker rank or Leetcode and provide more test cases.	Incorporated in PSD labs

RESOLUTIONS

After deliberations, the BoS in Computer Science and Engineering (Networks) has resolved the following

- 1. BoS-URR24 -CSE (Networks)- August 2024 R1:
 - Resolved to approve the Scheme of Instruction (SoI) of B.Tech. CSE (Networks) program me under URR24
- 2. BoS-URR24 CSE(Networks)- August 2024 R2:

Resolved to approve the syllabus of B.Tech. CSE (Networks) program me for semesters I & II under URR24

3. BoS-URR24 - CSE(Networks)- August 2024 - R3:



Resolved to approve the rules and regulations of B.Tech. (Networks) program me under URR24

At the end, the Chairperson, BoS, thanked all the BoS members for giving their suggestions and approving the B.Tech CSE (Networks) scheme and syllabus under URR24.

The meeting was adjourned at 1.30 pm.

Prof.V.Shankar

Chairperson, BoS of CSE (Networks), Professor & Head, CSE(N). KITSW



1	Name	Designation	Position in BoS	
1	Dr.V. Shankar	Professor &HoD		Attended/not
		CSE(N),KITSW	Chairperson, BoS	
	Dr.R.Padmavathy	Professor & Head, Dept of CSE,NIT Warangal	Member (Subject expert from	
1	Dr. Vinay Raj	Assistant professor,	Institute of National Importance)	4
		Dept of computer Applications NIT Tiruchirapalli	Member (Subject expert from National Importance)	RY
The second secon	Mrs.Seema Vodithala	Engineering Management-BMJ,BMA House ,Tavistock Square London WC1H9JR, United Kingdom	Member (Subject Expert from Outside the country)	
HERETON SERVICE STATES OF THE PARTY OF THE P	Dr.Kishore Kumar	Associate Professor, University College of Kothagudem Kakatiya University	Member (University Nominee)	Knl
Appropriate School Scho	Sri.S.Pranay	Academic Relationship Manager,TCS	Member (Industry representative)	Ones.
	Sri.Girish Ahankari	Vice President, Enginnering at Kore.ai Hyderabad	Member (Industry representative)	
	Dr.N.V.K.Stanley Raju	Technology Architect Infosys Ltd(STP),Hyderabad	Member (Industry representative)	
	Sri.Pavan Kumar Chittem	INFOSYS LIMITED Technology Lead	Member (Industry representative)	Parau
	Shobhana Pingli	Techanical Consulting Engineer Cx-Enterprise Wireless TAC Cisco Systems India Private Limited	Member (UG Alumni)	Gradnare
ł	^{Vinay} Kumar Bajjuri	Senior Consultant, OPEN TEXT	Member (PG Alumni)	Oper
	All Faculty Members			V

KITSW-Syllabi for I-II Semesters B.Tech. 4-year Degree Programme] Page 4 of 5

Internal BoS Members:

ller				1
_	TI	NAME OF THE FACULTY	DESIGNATION	SIGNATURE
NO_	$\frac{1}{1}$	Dr.V.Shankar	Professor,Head of the Dept	
		Dr.S.Venkataramulu	Associate Professor	Dittina
_		Dr.V.Chandra Skekar Rao	Associate Professor	
		Dr.V.Swathy	Associate Professor	Loll
	4	B.Sidhra Murthy	Assistant Professor	Ser
	5	Dr.Kumar Dorthi	Assistant Professor	\$
	6	Dr.A.Godavari	Assistant Professor	Hol
	7	D.Rmach	Assistant Professor	The state of the s
	-	D.Ramesh	Assistant Professor	-cl-
	9	T.Anusha	Assistant Professor	18 w8h
	10	T.Shruthi	Assistant Professor	130
	11	K.Sirisha	Assistant Professor	10000
	12	Ch.Jayanth Babu	Assistant Professor	- has
	13	K.Ravi Kantlı	Assistant Professor	Duyer P
	14	M.Sushmitha	Assistant Professor	47
	15	P.Priyanaka	Assistant Professor	gin
	16	V.Srinivas	Assistant Professor	mest
	17	M.Shirisha	Assistant Professor	The state of the s
	18	M.Priyadarshini	Assistant Professor	Selly
	19	S.Ravi	Assistant Professor	M. Sorg
	20	J.Sathish	Assistant Professor	De
	21	M.Soumya	Assistant Professor	48
	22	R Vijay Kumar	Assistant Professor Assistant Professor	Share -
	23	Ch.Shiva Kumar	Assistant Professor Assistant Professor	Wandel
	24	To anthi	Assistant Professor Assistant Professor	La Constantina
	25	Dr.B.v.Pranay Kumus	Assistant Professor Assistant Professor Assistant Professor	The state of the s
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	2	7 T. Venkatesh	1 211 1 1010	100
	2	V Cai Ram		Soule-
	2	o I Sujith Kumur	Assistant Professor Assistant Professor	
		-1 .1/11	Assisiiii	·
		0 K.Shrittii 1 Y.Soujanya Reddy		



HOD-CSN KITSW <hod.csn@kitsw.ac.in>

Request for approval of SCHEME, SYLLABUS & RULES & REGULATIONS OF URR24-Reg

11 messages

Sat, Aug 10, 2024 at 1:24 AM

Hundon Maritw.ac.in, vinayraj@nitt.edu, pranay.rsahay@tcs.com, Raj Kamal <rajnvk123@gmail.com>, Pavan Kumar 10: rpadma@nitw.ac.in, vinayraj@nitt.edu, pranay.rsahay@tcs.com, Raj Kamal <rajnvk123@gmail.com>, Pavan Kumar HOD-CSN KITSW <hod.csn@kitsw.ac.in> 10: Ipadinister 27@gmail.com>, pingili shobhana <pingilishobhana@gmail.com>, Vinay Kumar Bajjuri <пизистопна вајјита рајјита до постана вајјита сујпау ки пат вајјита сујпау ки пат вајјита vs.csn@kitsw.ac.in

The Members of BoS (External), CSE(Networks).

GOOD EVENING ALL

Sub: Request for approval of URR-24:

- 1. SCHEME.
- 2. SYLLABUS &
- 3, RULES & REGULATIONS.

With reference to the subject cited above, I thank all the esteemed members of BoS_CSE(Networks) for your presence on 3rd Aug'24 for the Board of Studies (BoS) meeting that was conducted in hybrid mode within the institute at 11:00AM, in IIOT Laboratory Block-VII. I am happy to share that, I, made a presentation successfully on the following agenda points:

- 1. SCHEME

The suggestions / Inputs given by the respected members were noted and also incorporated. The final draft of the Scheme, Syllabus and Rules & Regulations are attached here for your kind approvals.

[You are requested to give approvals on the individual items mentioned in the subject (Like Scheme approved, Syllabus approved and Rules and Regulations are approved)].

Regards:

Dr. V.Shankar

Prof & & Head

CSE(Networks)

KITS, Warangal.

Mobile: 7661058883

mail:hod.csn@kitsw.ac.in

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Sat, Aug 10, 2024 at 1:24 AN

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To: hod.csn@kitsw.ac.in



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a Science Mail - Request for approval of SCHEME, SYLLABUS & RULES & REGULATIONS
11:08 AM
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Recipient: rfc822; vinayraj@nitt.edu
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 Mode: smtp; 552 5.2.3 Message size exceeds maximum value
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  ema Vodithala <vodithala.seema@gmail.com>
  tHOD-CSN KITSW <hod.csn@kitsw.ac.in>
                                                                                                                                                                                                                                                                                                                                                                                                            Sat, Aug 10, 2024 at 2:05 AM
 ւրաժաս@nitw.ac.in, vinayraj@nitt.edu, pranay.rsahay@tcs.com, Raj Kamal <rajnvk123@gmail.com>, Pavan Kumar
 usterchittem27@gmail.com>, pingili shobhana <pingilishobhana@gmail.com>, Vinay Kumar Bajjuri
 naykumar.bajjun@gmail.com>, Girish@kore.ai, vs.csn@kitsw.ac.in
 <sup>lappy to approve</sup> the syllabus, Scheme and rules and regulations
 hank you for the opportunity Sir
 Thank you
Seema Vodithala
 Engineering Manager - Test
  London
Sent from my iPhone
               <sup>0n 9</sup> Aug 2024, at 20:54, HOD-CSN KITSW <hod.csn@kitsw.ac.in> wrote:
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      Taj@nitt.edu <vinayraj@nitt.edu>
     No CSN KITSW <hod.csn@kitsw.ac.in>
                                                                                                                                                                                                                                                                                                                                                                                                              Sat, Aug 10, 2024 at 8:57 AM
      KITSW <hod.csn@kitsw.ac.in>
KITSW <hod.csn@kitsw.ac.in>
KITSW <hod.csn@kitsw.ac.in>, rpadma@nitw.ac.in, pranay.rsahay@tcs.com, Raj Kamal
      MIZSN KITSW <hod.csn@kitsw.ac.in>

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     NISW <hod.csn@kitsw.ac.in>, rpadma@riitw.ac.in>, pingili shobnana
hobhana@gmail.com>, Pavan Kumar <masterchittem27@gmail.com>, pingili shobnana
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   wandobhana@gmail.com>, Pavan, ....
@dw.ac.in, vodithala.seema@gmail.com
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Dear Professor. Greetings!

As discussed during the BoS meeting, I give my approval. Syllabus is approved Rules & Regulations is approved.

Thanks, Dr. Vinay Raj Assistant Professor, Dept. of Computer Applications, NIT Tiruchirappalli

Quoting Seema Vodithala <vodithala.seema@gmail.com>:

[Quoted text hidden]

To: HOD-CSN KITSW <hod.csn@kitsw.ac.in> Sat, Aug 10, 2024 at 5:46 PM

TCS Confidential

Dear Prof. Shankar

Approved from my end.

Thank you

Regards

Pranay

From: vinayraj@nitt.edu <vinayraj@nitt.edu> Sent: Saturday, August 10, 2024 8:58 AM To: HOD-CSN KITSW <hod.csn@kitsw.ac.in>

To: HOD-CSN KITSW Shou.son@kitsw.ac.in>; rpadma@nitw.ac.in; Pranay Sahay pranay.rsahay@ics.com>;
Cc: HOD-CSN KITSW <hod.csn@kitsw.ac.in>; Payan Kumar <masterchittem27@gmail.com>; Cc: HOD-CSN KIISW < IIOu. College Manay Rayan Kumar < masterchittem 27@gmail.com>; pingili shobhana Raj Kamal < rajnvk 123@gmail.com>; Vinav Kumar Bailuri < vinavkumar hailuri@gmail.com>;

vs.csn@kitsw.ac.in; vodithala.seema@gmail.com vs.csn@kitsw.ac.iii, voult leid. Syllabus & Rules & Regulations of URR24-Reg Subject: Re: Request for approval of SCHEME, Syllabus & Rules & Regulations of URR24-Reg

External Email: Be cautious while opening any links or attachments.

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13/24, 11:08 AM

Kakatiya Institute of Technology & Science Mail - Request for approval of SCHEME, SYLLABUS & RULES & REGULATIONS.

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Pavan Kumar <masterchittem27@gmail.com>

Sat, Aug 10, 2024 at 5:53 PM

To: HOD-CSN KITSW <hod.csn@kitsw.ac.in>

Cc: rpadma@nitw.ac.in, vinayraj@nitt.edu, pranay.rsahay@tcs.com, Raj Kamal <rajnvk123@gmail.com>, pingilishahbana@nitw.ac.in, vinayraj@nitw.ac.in, vinayraj. shobhana <pingilishobhana@gmail.com>, Vinay Kumar Bajjuri <vinaykumar.bajjuri@gmail.com>, "vodithala.seema@gmail.com" <vodithala.seema@gmail.com>, Girish@kore.ai, vs.csn@kitsw.ac.in

Respected Sir,

Approved for Scheme, Syllabus, Rules and Regulations.

Thank you for the opportunity Sir!!

Best Regards, Pavan Kumar Ch

[Quoted text hidden] [Quoted text hidden] [Quoted text hidden]

Girish Ahankari <girish.ahankari@kore.com>

Sat, Aug 10, 2024 at 9:16 PM

Cc: HOD-CSN KITSW <hod.csn@kitsw.ac.in>, rpadma@nitw.ac.in, vinayraj@nitt.edu, pranay.rsahay@tcs.com, Raj To: Pavan Kumar <masterchittem27@gmail.com> Kamal <rajnvk123@gmail.com>, pingili shobhana <pingilishobhana@gmail.com>, Vinay Kumar Bajjuri <vinaykumar.bajjuri@gmail.com>, "vodithala.seema@gmail.com" <vodithala.seema@gmail.com>, Girish@kore.ai, vs.csn@kitsw.ac.in

Approved.

Kind regards,

Girish Ahankari / EVP, Engineering (NLP & Machine Learning) girish@kore.ai / +91-9866225600

Leader Again! Kore.ai is named a leader in the Forrester WaveTM Conversational AI Customer Service, Q2 2024.

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Sun, Aug 11, 2024 at 7:30 AM

To: Girish Ahankari <girish.ahankari@kore.com>, HOD-CSN KITSW <hod.csn@kitsw.ac.in>, rpadma@nitw.ac.in, Cc: Pavan Kumar <masterchittem27@gmail.com>, pingili shobhana <pingilishobhana@gmail.com> Vingy Ving vinayraj@nitt.edu, pranay.rsanay@ics.com, pingin shoshara spinginshoonana@gmail.com>, Vinay Kumar Bajjuri vinayraj@nitt.edu, pranay.rsanay@ics.com, pingin shoshara spinginshoonana@gmail.com>, Vinay Kumar Bajjuri vs.csn@kitsw.ac.in

Approved for Scheme, Syllabus, Rules and Regulations.

Thank you for the opportunity Sir!!

Dr. Raju.N.S Hyderabad.

-la com/mail/u/0/?ik=d60d8dfb86&view=pt&search=all&permthid=thread-a:r-7741142726700601707&simpl=msg-a:r63923642639...

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PADMAVATHY R < rpadma@nitw.ac.in> To: HOD-CSN KITSW <hod.csn@kitsw.ac.in>

Sun, Aug 11, 2024 at 9:57 AM

Approved

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[Quoted text hidden]

pingili shobhana <pingilishobhana@gmail.com>

Sun, Aug 11, 2024 at 8:43 PM

Cc: rpadma@nitw.ac.in, vinayraj@nitt.edu, pranay.rsahay@tcs.com, Raj Kamal <rajnvk123@gmail.com>, Pavan Kumar <masterchittem27@gmail.com>, Vinay Kuman B. iii alikala seema@gmail.com <vodithala.seema@gmail.com>, Girish@kore.ai, vs.csn@kitsw.ac.in

Respected sir Greetings for the day!

I am writing this email to inform you that Scheme, Syllabus, Rules and Regulations have been approved.

Thank you for giving me this opportunity.

Regards, Shobhana Pingili Technical Consulting Engineer **CISCO**

[Quoted text hidden] [Quoted text hidden] [Quoted text hidden]

Sun, Aug 11, 2024 at 9:05 PM

Vinay Kumar Bajjuri <vinaykumar.bajjuri@gmail.com> Cc: HOD-CSN KITSW <hod.csn@kitsw.ac.in>, rpadma@nitw.ac.in, vinayraj@nitt.edu, pranay.rsahay@lcs.com, Raj To: pingili shobhana <pingilishobhana@gmail.com> Cc. nob-osit Kitovi Silou.con@kitovi.ac.iir., ipaginacini.com, vilou.con.pranay.roanay@ics.com Kamal <rajnvk123@gmail.com>, Pavan Kumar <masterchittem27@gmail.com>, vodithala.seema@gmail.com, Girish@kore.ai, vs.csn@kitsw.ac.in

Respected Sir,

Approved for Scheme, Syllabus, Rules and Regulations.

Thank you for the opportunity Sir!!

Best Regards, Vinay kumar B [Quoted text hidden]

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PROGRAMMING FOR PROBLEM SOLVING WITH C

Class: B.Tech. I -Semester		Branch: Common to	all branches
Course Code:	U24CS104	Credits:	4
Hours/Week (L-T-P-O-E):	2-1-2-5-10	CIE Marks (%):	50
Total Number of Teaching Hours:	60 Hrs	ESE Marks (%):	50

Course Learning Objectives (LOs):

This course will develop students' knowledge in /on...

LO1: algorithms, flow charts and develop programs with basic constructs

UNIT-I

LO2: control structures and array operations

LO3: string operations and modular programming concepts with functions and recursion

LO4: structures, unions, pointers and files in C programming

THEORY COMPONENT

9 Hrs

Introduction to Programming: Art of programming through algorithms and flowcharts Overview of C: History of C, Importance of C, Basic structure of C programs

Constants, Variables and Data Types: Character set, C tokens, Declaration of variables, Defining symbolic constants

Managing Input and Output Operations: Reading a character, Writing a character, Formatted input, Formatted output

Operators and Expressions: Arithmetic, Relational, Increment, Decrement, Conditional, Logical, Bit-wise, Special operators, Arithmetic expressions, Evaluation of expressions, Operator precedence and associativity

Self Learning Topics (SLTs): Components of a computer, concept of hardware and software (Text1: chapter 1), Executing a C program (Text1: chapter 2), Type conversions in expression (Text1: chapter 4) Solved problems (Text1: chapter 2 to chapter 5), Review questions, debugging exercises, programming exercises, interview questions (Text1: chapter 2 to chapter 5)

UNIT-II

9 Hrs

Decision Making and Branching: Simple if statement, if-else statement, Nesting of if-else statements, else if ladder, switch statement, Conditional operator, goto statement

Decision Making and Looping: while statement, do-while statement, for statement, Nested

loops, Jumps in loops

Arrays: One-dimensional arrays, Declaration of one-dimensional arrays, Initialization of one-dimensional arrays, Linear search, Two-dimensional arrays, Initializing two dimensional arrays, Multi-dimensional arrays

Self Learning Topics (SLTs): Concise test expressions (Text1: chapter 7) Dynamic arrays (Text1: chapter 8), Solved problems (Text1: chapter 6 to chapter 8), Review questions, debugging exercises, programming exercises, interview questions (Text1: chapter 6 to chapter 8)

UNIT-III

9 Hrs

Character Arrays and Strings: Declaring and initializing string variable, Reading strings from terminal, Writing strings to screen, String handling functions, Table of strings

Modular Programming with User Defined Functions: Need for user-defined functions, Elements of user-defined functions, Definition of functions, Return values and their types, Function calls, Function declaration, Category of functions, Recursion, The scope, visibility and lifetime of variables (storage classes)

Page 1 of 4



Self Learning Topics (SLTs): Arithmetic operations on characters, comparison of strings (Text1: chapter 9), Nesting of functions, (Text1: chapter 10), Solved problems (Text1: chapter 9 & chapter 10), Review questions, debugging exercises, programming exercises, interview questions (Text1: chapter 9 & chapter 10).

UNIT-IV

Structures and Unions: Defining a structure, Declaring and initializing structure variables, Accessing structure members, Array of structures, Structures within structures, Unions Pointers: Understanding pointers, Declaring and initializing pointer variables, Pointer expressions, Pointers and arrays, Pointers and character strings, Pointers to functions,

File Management in C: Defining and opening a file, Closing a file, Input and output operations on sequential text files

Self Learning Topics (SLTs): Operations on individual members (Text1: chapter 11), Chain of pointers, array of pointers (Text1: chapter 12), Random access to files, Command line arguments (Text1: chapter 13). Solved problems (Text1: chapter 11 to chapter 13), Review questions, debugging exercises, programming exercises, interview questions (Text1: chapter 11 to chapter 13).

LABORATORY COMPONENT

List of Experiments

- 1. Programs using input output functions, operators (arithmetic, relational and conditional)
- 2. Programs using operators (bit-wise, logical, increment and decrement)
- 3. Programs using conditional control structures: if, if-else, nested if
- 4. Programs using else if ladder, switch and goto statements
- 5. Programs using loop control structures: while
- 6. Programs using loop control structures: do-while and for
- 7. Programs on one dimensional array and two-dimensional arrays
- 8. Programs on String operations and string handling functions
- 9. Programs on different types of functions, parameter passing using call-by-value & call-by-address, recursion and storage classes
- 10. Programs using structures, unions, pointers to arrays and pointers to strings
- 11. Programs using array of pointers and pointers to structures
- 12. Programs on File operations and file handling functions for sequential text files

Textbook(s):

1. Balagurusamy.E, Programming in ANSI C, McGraw Hill, 8th edition, 2022

Reference Book(s):

- 1. Paul Deitel, Harvey Deitel, C How to Program: With Case Studies Introducing Applications Programming and Systems Programming, Pearson Education Limited, 9th edition, 2022
- 2. Brian W. Kernighan and Dennis Ritchie, The C Programming Language, Pearson Education India, 2nd edition, 2015
- 3. Reema Thareja, *Programming in C*, Oxford University Press, 3rd edition, 2023
- 4. Yashavant Kanetkar, Let Us C, BPB Publications, 19th edition, 2022
- 5. A.K.Sharma, Computer Fundamentals and Programming in C, Universities Press, 2nd edition, 2018

Web and Video link(s):

https://nptel.ac.in/courses/106105171 NPTEL Video Lecture on Problem Solving through https://ining in C by Prof. Anupam Basu, Professor of CSE, IIT Kharagpur.

https://nptel.ac.in/courses/106104128 NPTEL Video Lecture on Introduction to Programming http:// Prof. Satyadev Nandakumar, Professor of CSE, IIT Kanpur

Laboratory Manual (for laboratory component):

1. Programming for Problem Solving with C Laboratory Manual and Record Book, Department of CSE, KITSW.

Course Learning Outcomes (COs):

After completion of this course, the students should be able to,

(based on cognitive skills acquired from theory component)

CO1: enumerate programming development steps, design an algorithm and draw a flow chart for a given application

CO2: apply logical skills for problem solving using control structures and arrays

CO3: develop string operations and modular programming with functions

CO4: analyse and implement structures, unions, pointers and files in C programming

(based on psychomotor skills acquired from laboratory component)

CO5: develop programs using operators and decision making statements

CO6: apply loops and arrays to develop a program of an application

CO7: implement string operations and develop modular programs using user-defined functions, recursion, and storage classes.

CO8: develop programs using structures, unions, pointers and files

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Course Articulation		U24CS104: PRAGRAMMING FOR PROBLEM SOLVING WITH C												
	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO	PSO	PSO
CO	1	2	3	4	5	6	7	8	9	10	11	12	1	2
CO1 U24CS104.1	2	1	1	1	-	-	-	1		₁ 1	-	2	1	2
CO2 U24CS104.2	2	2	2	1	-	-	-	1	-	1	-	2	2	2
CO3 U24CS104.3	2	2	3	1	-	-	-	1	-	1	-	2	2	2
CO4 U24CS104.4			3	2		-	-	1	-	1	· -	2	2	2
C0104.4	2	2		1	1	_	_	1	1	1	-	2	1	2
CO5 U24CS104.5	1	1	1		1			1	1	1		2	2	2
CO6 U24CS104.6	1	2	2	2	1			1	1	1		2	2	2
044031141	1	2	3	2	1			1	1	1		2	2	
CO8 U24CS104.8	1	2	.3	2	1	-		1	1		-			2
U24CS104	1.5	1.75	2.25	1.5	1	-	-	1	1	1		2	1.75	2

Paval Vines

