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Dakshina Kannada, Karnataka Ph.: 0824-2278666 (5 Lines), Fax: 0824-2278675

e-mail: canarait@gmail.com, Website: www.canaraengineering.in



Ref: CEC/ME/2022-2023/01

Date: 21-01-2022

To

The Registrar VTU, Belagavi

Subject: Feedback on the draft 2021 Scheme of 3rd to 8th semesters of BE/B.Tech/B Plan and 3rd to 10th Semesters of B Arch. Regarding

Respected Sir/Madam,

As per the discussion with the concerned subject faculty members, we would like to add a few suggestions as below

6th Semester:

- It would become very difficult for the students to study the FEA lab without the FEA Core theory subject.
- Operation Research (in the 4th semester and Production and Operations Management (in the 6th semester) can be merged into one core subject to make a way for FEA as a core subject in the 6th semester.

7th Semester:

• In Professional Elective II, Statistical Quality Control can be merged with TQM in Professional Elective III, to make a way for Introduction of Supply Chain Management (SCM) under any of the elective's group II or III, as many students of Mechanical Engineering students take-up their career under SCM.

Dr. Ganesh V. Bhat

Principal Principal



Canara Engineering College

Department of Mechanical Engineering



Benjanapadavu, Bantwal Taluk

Mangalore-574219

Academic Year: 2021-22

Feedback on the draft 2021 Scheme:

Action Suggested in curriculum:

In Professional Elective II, Statistical Quality Control can be merged with TQM in Professional Elective III, to make a way for Introduction of Supply Chain Management (SCM) under any of the elective's group II or III, as many students of Mechanical Engineering students take-up their career under SCM.

Action taken by the affiliating University:

In the subject Operations Management, one complete module on Supply Chain Management (SCM) is included in curriculum as per our suggestion.

PRINCIPAL



Computer Science and Engineering department <cse@canaraengineering.in>

Feedback on Draft 2021 Scheme of 3-8 Semesters of BE in CSE, AIML and CSD

1 message

Computer Science and Engineering department <cse@canaraengineering.in>

Thu, Jan 20, 2022 at 7:44 PM

To: ks_shreedhara@yahoo.com, ks.shreedhara@gmail.com

Cc: principal office <principaloffice@canaraengineering.in>, blsuny@gmail.com, meetnischay@gmail.com, sathishams1983@gmail.com, "academicsyllabus.vtu@gmail.com" <academicsyllabus.vtu@gmail.com>

Dear sir,

Greetings from the Computer Science and Engineering Department, Canara Engineering College, Mangaluru.

We are submitting the feedback on the schemes of THREE UG engineering programmes (CSE, AIML, CSD) for your kind consideration. We had fruitful deliberations in the department involving senior faculty and the outcomes of the meetings are documented in the form of individual letters (Attached with this email).

We thank VTU for the opportunity given to us to express our views and suggestions to enrich the future generations with state of the art skills required for the IT industry.

Thanking you,

Yours sincerely

Demian Antony D'Mello

Professor & Head

Department of Computer Science & Engineering, Canara Engineering College

Benjanapadavu, Bantwal - 574 219, D.K., Karnataka, India.

Phone: 0824 2278678 (Direct), 0824 2278666 Ext: 230, Mobile: 9448216791

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CANARA ENGINEERING COLLEGE, BANTWAL MANGALORE – 574219, KARNATAKA



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

DATE:20/01/2022

To meet the Program Outcomes (PO's) and Program Specific Outcomes (PSO's) of Computer Science and Engineering program, the following suggestions may be incorporated.

III Semester

- 21CSL35 Object Oriented Programming with JAVA Laboratory: Given that, this is a
 Laboratory course, we suggest to introduce a related theory course (object-oriented
 concepts with JAVA) in the same semester and this course may be included in the IPCC.
- 21XX38X Ability Enhancement Course-III: Under this course only two options have been listed as per your scheme, we would like to have more options which help students to be competitive.
- 3. 21CS33 Analog and Digital Electronics: This course may be enlisted in Ability Enhancement Course-III (AEC) category rather than IPCC.
- 4. Analog and Digital Electronics Laboratory: This course may be enlisted in PCC with only laboratory practice.
- 5. To Strengthen PO-8 and PO-10, Business Communication and Ethics course may be included under Ability Enhancement Course-III.

IV Semester:

- 21CS43 Micro Controller and Embedded System: This course may be enlisted in AEC category rather than IPCC.
- 2. Web programming course may be introduced under IPCC. (In place of 21CS43)
- 3. 21CS484 Ability Enhancement Course-IV: Unix Shell and PHP programming may be split into two separate courses. So that students can get benefited.
- 4. HTML and CSS Course: This course may be introduced in Ability Enhancement Course-IV (AEC).

- Data Communication: This course may be introduced in Ability Enhancement Course-IV
 (AEC).
- Pandas and NumPy: This course may be introduced in Ability Enhancement Course-IV
 (AEC).

V Semester:

21CS54 Artificial Intelligence and Machine Learning: For this course only theory hours
are allocated as per the current scheme, we would like to suggest practical hours for this
course which helps the students to have practical approach to motivate them to convert
knowledge into skill. This course may be enlisted under IPCC.

VI Semester:

21CS61 Software Engineering and Project Management: For this course only theory
hours are allocated as per the current scheme, we would like to suggest practical hours for
this course which helps the students to have practical approach to motivate them to convert
knowledge into skill. This course may be enlisted under IPCC.

VII semester:

- 1. Mobile Application Development (MAD) using Android: This course may be introduced in Ability Enhancement Course-VI (AEC).
- 2. Mobile Application Development (MAD) using Flutter: This course may be introduced in Ability Enhancement Course-VI (AEC).
- 3. Node.js: This course may be introduced in Ability Enhancement Course-VI (AEC).
- 4. React Native: This course may be introduced in Ability Enhancement Course-VI (AEC).

VIII Semester:

1. As, Artificial Intelligence and Machine Learning driving new trend in the market we would like to suggest you to include more basic courses which are prerequisites to understand AI and ML, for example Statistics, Fuzzy logic etc.

Program Coordinator

(SATHISHA M S)

Head of the Department

(Dr. Demian Antony D'Mello)

Professor and Head Dept. of Computer Science & Engg. Canara Engineering College Mangalore Benjanapadavu. Bantwal-574219

CANARA ENGINEERING COLLEGE, BANTWAL

MANGALORE – 574219, KARNATAKA





DATE: 20/01/2022

To meet the Program Outcomes (PO's) and Program Specific Outcomes (PSO's) of Artificial Intelligence and Machine Learning program, the following suggestions may be incorporated.

III Semester:

- 1. 21CSL35 Object Oriented Programming with JAVA Laboratory: Given that this is a laboratory course, we suggest to introduce a relevant theory course (object-oriented concepts with JAVA) in the same semester, and that this can be included in the IPCC.
- 2. **21XX38X Ability Enhancement Course-III:** Under this course only two options have been listed as per your scheme, we would like to have more options which help students to be competitive.
- 3. 21CS33 Analog and Digital Electronics: This course may be enlisted in Ability Enhancement Course (AEC) category rather than IPCC.
- 4. Analog and Digital Electronics Laboratory: This course may be enlisted in PCC with only laboratory practice.
- 5. To Strengthen PO-8 and PO-10, Business Communication and Ethics course may be enlisted in Ability Enhancement Course-III.

IV Semester:

- 1. 21CS43 Micro Controller and Embedded System: This course may be enlisted in Ability Enhancement Course (AEC) category rather than IPCC.
- 2. Web programming course may be introduced under IPCC. (In place of 21CS43)
- 3. 21CS484 Ability Enhancement Course-IV: Unix Shell and PHP programming may be split into two separate courses. So that students can get benefited.
- 4. HTML and CSS Course: This course may be introduced in Ability Enhancement Course-IV (AEC).

5. Data Communication: This course may be introduced in Ability Enhancement CourseIV (AEC).

Pandas and NumPy: This course may be introduced in Ability Enhancement Course-IV
(AEC).

V Semester:

21AI54 Principles of Artificial Intelligence: According to the existing scheme, only
theory hours are assigned for this course; however, we would like to suggest practical hours
for this course, which will assist students in developing a practical approach to motivate
them to turn knowledge into skill. This course can be included under IPCC.

VI Semester:

 21CS61 Software Engineering and Project Management: According to the existing scheme, only theory hours are assigned for this course; however, we would like to suggest practical hours for this course, which will assist students in developing a practical approach to motivate them to turn knowledge into skill. This course can be included under IPCC.

VII semester:

- Mobile Application Development (MAD) using Android: This course may be introduced in Ability Enhancement Course-VI (AEC).
- Mobile Application Development (MAD) with Flutter: This course may be introduced in Ability Enhancement Course-VI (AEC).
- 3. Node.js: This course may be introduced in Ability Enhancement Course-VI (AEC).
- 4. React Native: This course may be introduced in Ability Enhancement Course-VI (AEC).

Program Coordinator

SUNIL KUMAR B. L.

Head of the Department

Dr. Demian Antony D'Mello



CANARA ENGINEERING COLLEGE, BANTWAL

MANGALORE – 574219, KARNATAKA



DEPARTMENT OF COMPUTER SCIENCE AND DESIGN

DATE:20/01/2022

To meet the Program Outcomes (PO's) and Program Specific Outcomes (PSO's) of Computer Science and Design program, the following suggestions may be incorporated.

III Semester

- 21CSL35 Object Oriented Programming with JAVA Laboratory: Given that, this is a
 Laboratory course, we suggest to introduce a related theory course (object-oriented
 concepts with JAVA) in the same semester and this course may be included in the IPCC.
- 2. 21XX38X Ability Enhancement Course-III: Under this course only two options have been listed as per your scheme, we would like to have more options which help students to be competitive.
- 3. 21CS33 Analog and Digital Electronics: This course may be enlisted in Ability Enhancement Course-III (AEC) category rather than IPCC.
- 4. Analog and Digital Electronics Laboratory: This course may be enlisted in PCC with only laboratory practice.
- 5. To Strengthen PO-8 and PO-10, Business Communication and Ethics course may be included under Ability Enhancement Course-III.

IV Semester:

- 1. 21CS43 Micro Controller and Embedded System: This course may be enlisted in AEC category rather than IPCC.
- 2. Web programming course may be introduced under IPCC. (In place of 21CS43)
- 3. 21CS484 Ability Enhancement Course-IV: Unix Shell and PHP programming may be split into two separate courses. So that students can get benefited.
- 4. HTML and CSS Course: This course may be introduced in Ability Enhancement Course-IV (AEC).
- 5. **Data Communication:** This course may be introduced in Ability Enhancement Course-IV (AEC).

Pandas and NumPy: This course may be introduced in Ability Enhancement Course-IV
(AEC).

V Semester:

21CS54 Artificial Intelligence and Machine Learning: For this course only theory hours
are allocated as per the current scheme, we would like to suggest practical hours for this
course which helps the students to have practical approach to motivate them to convert
knowledge into skill. This course may be enlisted under IPCC.

VI Semester:

1. 21CS61 Software Engineering and Project Management: For this course only theory hours are allocated as per the current scheme, we would like to suggest practical hours for this course which helps the students to have practical approach to motivate them to convert knowledge into skill. This course may be enlisted under IPCC.

VII semester:

- Mobile Application Development (MAD) using Android: This course may be introduced
 in Ability Enhancement Course-VI (AEC).
- 2. Mobile Application Development (MAD) using Flutter: This course may be introduced in Ability Enhancement Course-VI (AEC).
- 3. Node.js: This course may be introduced in Ability Enhancement Course-VI (AEC).
- 4. React Native: This course may be introduced in Ability Enhancement Course-VI (AEC).
- 5. 21CD735 Design Thinking: A course related to this is included in first semester with the title Innovation and Design Thinking (21ITD19). Design Thinking course can be retained if the course contents are different from 21ITD19.

VIII Semester:

1. As, Artificial Intelligence and Machine Learning driving new trend in the market we would like to suggest you to include more basic courses which are prerequisites to understand Al and ML, for example Statistics, Fuzzy logic etc.

Program Coordinator (NISCHAYKUMAR HEGDE)

Head of the Department (Dr. Demian Antony D'Mello)

Professor and Head Dept. of Computer Science & Engg. Canara Engineering College Mangaleta Benjanapadavu, Bantwal-5/4218



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Fax: 0824-2278675 e-mail: canarait@gmall.com, Website: www.canaraengineering.in



Date: 20/01/2022

To,

The Registrar, VTU, Belagavi

Sub: Feedback on the draft 2021 scheme of 3rd to 8th semesters of B.E/B.Tech/B.Plan and 3rd to 10th semesters of B.Arch regarding

Respected Sir/Madam,

As per the discussion with the concerned subject faculty members, we would like to add few suggestions as below

Semester III

- It would become very difficult for the students if Network Analysis and Control Systems subjects are combined
- Teaching hours for Analog and Digital Electronics Lab can be increased to 3hrs/week
- Summer Internship for 3rd semester not preferable
- Prerequisites of Sequential and Combinational circuits can be incorporated for understanding the Digital system design Verilog Lab

Semester IV

- In the course, Object oriented programming using Java and Python Flexibility can be given for Java or Python
- Not mentioned clearly about Examination pattern for the Ability enhancement courses
- Advanced python cannot be opted if python is not taken as a course



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Principal

Semester VI

Optical communication and Networks course already prescribed in V Semester

Semester VII

- Courses on VLSI and embedded domain can be incorporated
- Course on NCC prescribed in both 6th and 8th semesters
- Internships can be planned based on the Semester Vacations
- Courses like Instrumentation, Computer Organization, operating systems, Digital electronics lab,
 Digital Communication, Electro magnetic waves can be incorporated in the syllabus

Thanking You,

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4 UG Programmes Accredited by NBA upto 2022

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Website: www.canaraengineering.in

Date: 09/10/2021

To.

Registrar,

VTU, Belagavi

Sub: Feedback on the draft syllabus of common subjects of 1st semester UG Programs (2021 scheme regarding) Basic Electronics Syllabus 21ELN24

Respected Sir/Madam,

As per the discussion with the concerned subject faculty members, we would like to add few suggestions as below for the subject - Basic Electronics 21ELN24

Module 1

- · Topic wise contents are preferred
- Contents in Module 1 includes the contents of Module 1 and Module 2 of 2018 Scheme, 10hrs of Lecture hours not enough for covering the contents
- Qualitative/Quantitative teaching? Not clear in the Draft Syllabus
- Model Question paper would help better for the 2021 Scheme

Module 2

- Dedicated lab is not mentioned clearly
- Sensors and Interfaces topic section wise not specified

Module 3

Topics on Self Study - Questions will be asked for Semester End Examination (SEE) or not, Clarity Required on the same

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SESTO 2001

Module 4

- Error Management topic not specified clearly with subtopics
- Self-study topics of Module is not clear

Module 5

- Difficult to comprehend for 1st year students
- 8.3 Cellular Wireless Network topic may be very tough for 1st year students to understand
- Generations in Wireless/GSM Communications can be removed (8.1, 8.2 and 8.3 Cellular Wireless Networks, Cellular telephone system, Cellular concept and Frequency Reuse - Subsections can be removed)
- 8.16, 8.17, 8.7 and 8.7.2 topics can be retained the same
- 9.13 Satellite Communication consists of Many topics, few topics can be removed
- Microwave communications topic can be removed for 1st year, difficult without the prerequisites of Communication
- Self-study topics of Module is not clear

Thanking You,

Principal

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2496210 2492366



DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING CANARA ENGINEERING COLLEGE



Benjanapadavu, Bantwal Tq, Mangalore – 574219 Ph: 0824-2278666 Website : canaraengineering.in, Email: canarait@gmail.com

FEEDBACK ON THE DRAFT 2021 SCHEME

BOARD: COMPUTER SCIENCE & ENGINEERING BOARD

| Semester | Subject Code | Subject Name | Suggestions |
|----------|-----------------|---|---|
| III | 21CSL35 | Object Oriented Programming with JAVA | JAVA theory inclusion is suggested in the curriculum along with JAVA lab. |
| | NA | Discrete Mathematical Structures | Course can be included, which is needed in wiring Computer networks, doing web search in mulitlangues once using linear algebra, digital image processing to merge the filters, etc. |
| IV | 21CSL46 | Python Programming Laboratory | Include Python theory subject in the curriculum to enhance coding skills. |
| V | 21CS54 | Artificial Intelligence and Machine Learning | Only theory course is included in the curriculum. In the same semester, include AI & ML lab so that students will get better coding hands on experience. |
| VI | 21CS61 | Software Engineering and Project Management | Include SE laboratory in the curriculum so that students will get better hands on experience along with theory concepts. |
| VII | 21CS725 | Internet of Things | Change of prescribed textbook. David Hanes, Gonzalo Salgueiro, Patrick Grossetete, Robert Barton, Jerome Henry, "IoT Fundamentals: Networking Technologies, Protocols, and Use Cases for the Internet of Things", 1stEdition, Pearson Education (Cisco Press Indian Reprint). (ISBN: 978- 9386873743) |

NBA Coordinator
(Ramer L Nayak)

HOD

CANARA ENGINEERING COLLEGE BENJANPADAVU, BANTWAL - 574 219. DEPT. OF INFORMATION SCIENCE & ENDINEERING



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Dear Sir

Thank you for the feedback given to scheme.

Following are some of the points to be observed in the NEP scheme Total credits is reduced to 160.

Many theory slots are occupied by other NEP related subjects (see 1 Scheme is common for all the branches of engineering.

- 1. Programming subjects (Java/Python) is planned to taught in the It will be more effective and it is one of the best practice adopted hours.
- 2. DMS subject contents(2modules) are included in the " mathema 4th semester.
- 3. Software engg subject is combined with software management
- Prepare the syllabus of "IOT" and send to my mail id we will inc I am attaching Draft format with this mail for your reference, Send it at the earliest.

Thank you,

With Regards

Shreedhara K S Chairman, BOS (VTU) UBDTCE

Davnagere

9448009306