



K.S.R.M. COLLEGE OF ENGINEERING

(UGC-AUTONOMOUS)

Kadapa, Andhra Pradesh, India- 516 005

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu.

An ISO 14001:2004 & 9001: 2015 Certified Institution

Department of Civil Engineering

Syllabus comparison between R23UG and R20UG

Programme: B. Tech.

Branch: Civil Engineering

Semester: I & II

AY: 2023-24

Sl. No.	Course code	Course Title	Percentage change in R23UG compared to R20UG
1	2321101	Linear Algebra and Calculus	60
2	2324101	Communicative English	80
3	2322104	Engineering Physics	30
4	23EE106	Basic Electrical & Electronics Engineering	100
5	2303108	Engineering Graphics	30
6	2324110	Communicative English Lab	60
7	23EE114	Electrical and Electronics Engineering Workshop	100
8	2322115	Engineering Physics Lab	50
9	2306116	NSS / NCC / Scouts & Guides / Community Service	100
10	2321201	Differential Equations & Vector Calculus	40
11	23EC202	Engineering Chemistry	40
12	23EM204	Engineering Mechanics	50
13	23CM205	Basic Civil and Mechanical Engineering	100
14	2305207	Introduction to Programming	40



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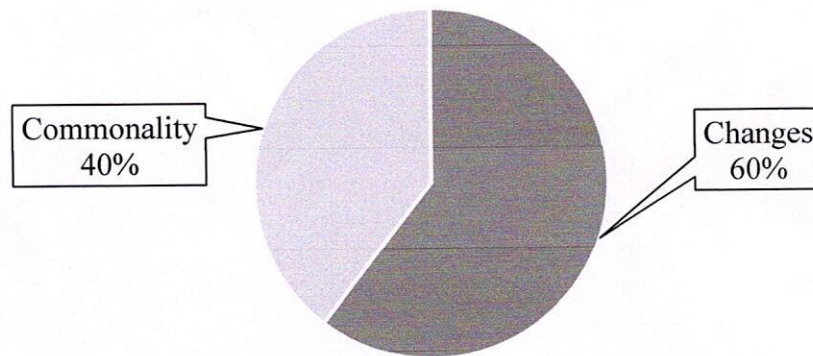
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15	2301206	Engineering Mechanics & Building Practices Lab	100
16	2305209	IT Workshop	40
17	23EC211	Engineering Chemistry Lab	30
18	2303212	Engineering Workshop	20
19	2305213	Computer Programming Lab	40
20	2306217	Health And Wellness, Yoga and Sports	100
Average Percentage Change in Curriculum			60

% Change in R23UG compared to R20UG, I year



Internal Evaluation Committee:

S.No	Name of the Faculty	Designation	Signature
1.	Dr. N. Amaranatha Reddy	Associate Professor	
2.	Dr. G. Sreenivasa Reddy	Professor	
3.	Dr. V. Giridhar	Professor	
4.	Dr. T. Kiran Kumar	Professor	

Head

Department of Civil Engineering
K.S.R.M. College of Engineering
(Autonomous)
KADAPA - 516 003. (A.P.)

Dean (Academics)
DEAN (Academics)
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Department of Civil Engineering

Syllabus comparison between R20UG and R18UG

Programme: B. Tech.

Branch: Civil Engineering

Semester: VII and VIII

Sl. No.	Course code	Course Title	Percentage change in R20UG compared to R18UG
1	2001701	Ground Improvement Techniques	45
2	2001702	Quantity Estimation of structures	30
3	2001703	Finite Element Methods	10
4	2001704	Design of Steel Structures	0
5	2001705	Water Supply Engineering	100
6	2001706	Advanced Concrete Structures	100
7	2001707	Design and Drawing of Irrigation Structures	20
8	2001708	Construction Practice and Management	0
9	2001709	Urban Transportation Planning	30
10	20015S5	Practices in Geo-Technical Engineering	100
11	20OE107	Repair & Rehabilitation of Structures	100
12	20OE108	Geo-Environmental Engineering	100
13	20OE109	Environmental Impact Assessment	20
14	20OE110	Industrial Safety Engineering	100
15	20OE111	Surveying	100
16	20OE112	Traffic Engineering	100
Average Percentage change in Curriculum			60



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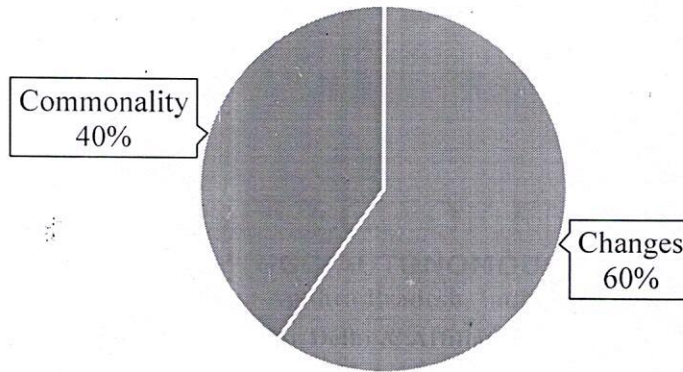
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% change in R20UG compared to R18UG



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3.	Dr. V. Giridhar	Professor	
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Department of Electrical and Electronics Engineering

Syllabus comparison between R23UG and R20UG

Programme: B. Tech.

Branch: EEE

Semester: I & II

AY: 2023-24

Sl. No.	Course code	Course Title	Percentage change in R23UG compared to R20UG
1	2321101	Linear Algebra and Calculus	60
2	2323102	Chemistry	40
3	23CM105	Basic Civil and Mechanical Engineering	100
4	2305107	Introduction to Programming	40
5	2305109	IT Workshop	40
6	2323111	Chemistry Lab	30
7	2303112	Engineering Workshop	20
8	2305113	Computer Programming Lab	40
9	2306117	Health And Wellness, Yoga and Sports	100
10	2321201	Differential Equations & Vector Calculus	40
11	2324201	Communicative English	80
12	2302202	Electrical Circuit Analysis-1	30
13	2322204	Engineering Physics	30
14	23EE206	Basic Electrical & Electronics Engineering	100
15	2303208	Engineering Graphics	30
16	2302203	Electrical Circuits Lab	80
17	2324210	Communicative English Lab	60
18	23EE214	Electrical & Electronics Engineering Workshop	100
19	2322215	Engineering Physics Lab	50



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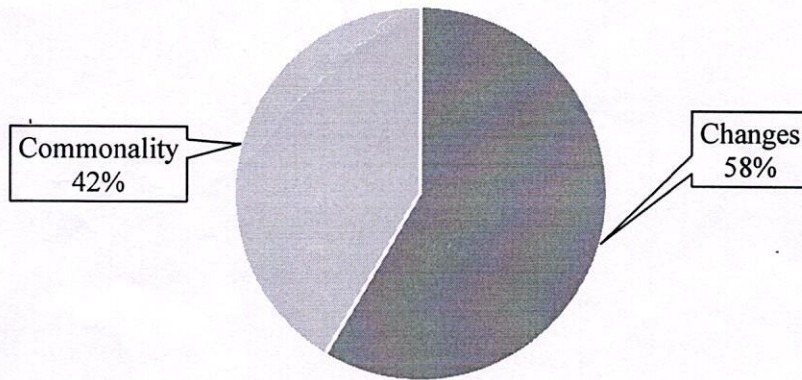
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20	2306216	NSS / NCC / Scouts & Guides / Community Service	100
Average Percentage Change in Curriculum			58

% Change in R23UG compared to R20UG, I year



Internal Evaluation Committee:

S.No	Name of the Faculty	Designation	Signature
1.	Dr. M. S. Priyadarshani	Professor and HoD	
2.	Sri. K. Ramamohan Reddy	Associate Professor	
3.	Dr. C. Kumar Reddy	Associate Professor	
4.	Smt. Saleha Tabassum	Assistant Professor	
5.	Mr. K. Kalyan Kumar	Assistant Professor	

HoD
HEAD
Department of Electrical &
Electronics Engineering
K.S.R.M. College of Engineering
Kadapa -516003.

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Department of Mechanical Engineering

Syllabus comparison between R23UG and R20UG

Programme: B. Tech.

Branch: Mechanical Engineering

Semester: I & II

AY: 2023-24

Sl. No.	Course code	Course Title	Percentage change in R23UG compared to R20UG
1	2321101	Linear Algebra and Calculus	60
2	2324101	Communicative English	80
3	2322104	Engineering Physics	30
4	23EE106	Basic Electrical & Electronics Engineering	100
5	2303108	Engineering Graphics	30
6	2324110	Communicative English Lab	60
7	23EE114	Electrical and Electronics Engineering Workshop	100
8	2322115	Engineering Physics Lab	50
9	2306116	NSS/NCC/Scouts and guides/Community service	100
10	2321201	Differential Equations & Vector Calculus	40
11	23EC202	Engineering Chemistry	40
12	23EM204	Engineering Mechanics	10
13	23CM205	Basic Civil and Mechanical Engineering	100
14	2305207	Introduction to Programming	40
15	2301206	Engineering Mechanics lab	100
16	2305209	IT Workshop	40
17	23EC211	Engineering chemistry lab	30
18	2303212	Engineering Workshop	20



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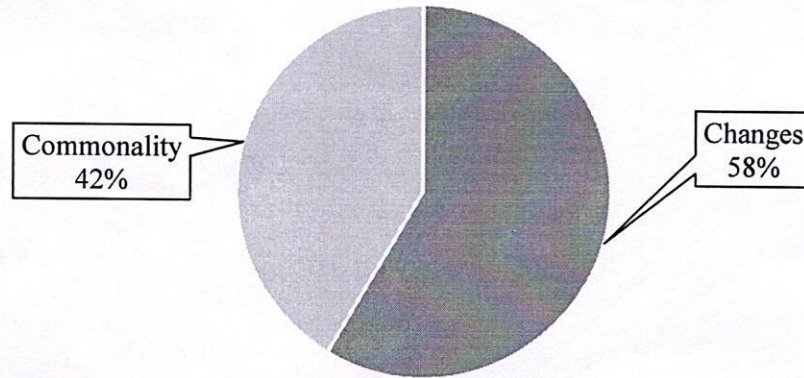
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19	2305213	Computer Programming Lab	40
20	2306217	Health And Wellness, Yoga and Sports	100
Average Percentage Change in Curriculum			58

% Change in R23UG compared to R20UG, I year



Internal Evaluation Committee:

S.No	Name of the Faculty	Designation	Signature
1.	Prof. D. Ravikant	Professor	
2.	Sri. K. Suresh Kumar	Associate Professor	
3.	Sri. Rama Krishna Reddy	Associate Professor	
4.	Sri. C. Nagaraja	Assistant Professor	

HoD
Professor & Head
Department of Mechanical Engineering
K.S.R.M. College of Engineering
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Department of Mechanical Engineering

Syllabus comparison between R20UG and R18UG

Programme: B.Tech.

Branch: Mechanical Engineering

Semester: VII and VIII

Sl. No.	Course code	Course Title	Percentage change in R20UG compared to R18UG
1	2003701	Modern Manufacturing Methods	40
2	2003702	Design for Manufacturing	60
3	2003703	Solar and Wind Energy Systems	80
4	2003704	Mechanical Behavior of Material's	80
5	2003705	Total Quality Management	80
6	2003706	Automobile Engineering	70
7	2003707	Additive Manufacturing	60
8	2003708	Mechanical Vibrations	100
9	2003709	Material Characterization	100
10	2003710	Production and Operations Management	60
11	2003711	Vehicle Diagnosis and Control	100
12	2003712	Mechatronics & MEMS	90
13	2003713	Design of Oil Hydraulics and Pneumatics	100
14	2003714	Refrigeration & Air Conditioning	20
15	2003715	Geometric dimension and Tolerances	80
16	20OE311	Entrepreneurship	30
17	20OE312	Solar Energy Systems	80
18	20OE313	Internal Combustion Engine	20
19	20OE314	Energy Auditing	95
20	20OE315	Sustainable Engineering	95
21	20OE316	Industrial Engineering & Management	95
Average Percentage change in Curriculum			73.10



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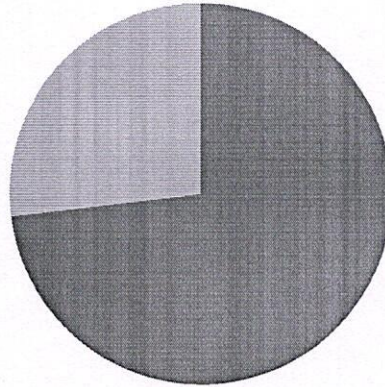
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% change in R20UG compared to R18UG

Commonality
(26.9)



Change in
Curriculum (73.1)

Internal Evaluation Committee:

S.No	Name of the Faculty	Designation	Signature
1.	Dr. D. Ravikanth	Professor	
2.	Mr. K. Suresh Kumar	Associate Professor	
3.	Dr. P. Sreenivas	Associate Professor	

HoD

Professor & head
Department of Mechanical Engineering
K.S.R.M. College of Engineering
KADAPA - 516 005.

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Department of Electronics and Communication Engineering

Syllabus comparison between R23UG and R20UG

Programme: B. Tech.

Branch: ECE

Semester: I & II

AY: 2023-24

Sl. No.	Course code	Course Title	Percentage change in R23UG compared to R20UG
1	2321101	Linear Algebra and Calculus	60
2	2324101	Communicative English	80
3	2322104	Engineering Physics	30
4	23EE106	Basic Electrical & Electronics Engineering	100
5	2303108	Engineering Graphics	30
6	2324110	Communicative English Lab	60
7	23EE114	Electrical and Electronics Engineering Workshop	100
8	2322115	Engineering Physics Lab	50
9	2306116	NSS / NCC / Scouts & Guides / Community Service	100
10	2321201	Differential Equations & Vector Calculus	40
11	2323202	Chemistry	40
12	2304204	Network Analysis	100
13	23CM205	Basic Civil and Mechanical Engineering	100
14	2305207	Introduction to Programming	40
15	2304206	Network Analysis and simulation lab	100
16	2305209	IT Workshop	40
17	2323211	Chemistry Lab	30
18	2303212	Engineering Workshop	20



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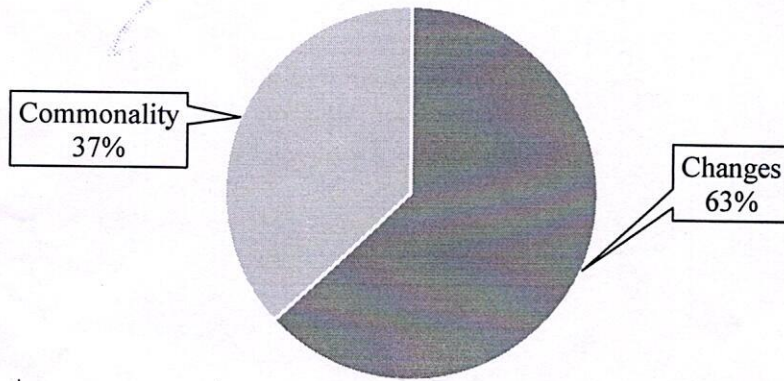
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19	2305213	Computer Programming Lab	40
20	2306217	Health And Wellness, Yoga and Sports	100
Average Percentage Change in Curriculum			63

% Change in R23UG compared to R20UG, I year



Internal Evaluation Committee:

S.No	Name of the Faculty	Designation	Signature
1.	Dr. G. Hemalatha	Professor	
2.	Dr. M. V. Narayana	Professor	
3.	Dr. V. Adinarayana Reddy	Professor	
4.	Dr. S. L. Prathapa Reddy	Professor	
5.	Sri. R. V. Sreehari	Associate Professor	

HoD
Professor & HoD,
Department of E.C.E.,
K.S.R.M. College of Engineering,
KADAPA - 516 005.

Dean
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Department of Electronics and Communication Engineering

Syllabus comparison between R20UG and R18UG

AY 2023-2024

Programme: B.Tech

Branch: Electronics and Communication Engineering

Semester : VII and VIII

S. No.	Course code	Course Title	Percentage change in R20UG compared to R18UG
1	2004701	Nano Electronics	100
2	2004702	Digital Image and Video Processing	40
3	2004703	Introduction to MEMS	80
4	2004704	Advanced Wireless Mobile Communications	20
5	2004705	Advanced Digital Signal Processing	100
6	2004706	RF System Design	0
7	2004707	Low Power VLSI	0
8	2004708	Biomedical Instrumentation	80
9	2004709	RADAR and Satellite Communication	0
10	2004710	Advanced Computer Architecture	80
11	2004711	Computer Networks	90
12	2004712	Robotic Process Automation	100
13	2004713	Cyber Security	100
14	2004714	Web Design and Management	100
15	2004715	Cognitive Radio	0
16	20SC716	Mobile Application Development	100
17	2004801	Full Internship / Project work	50
Average change			61.17



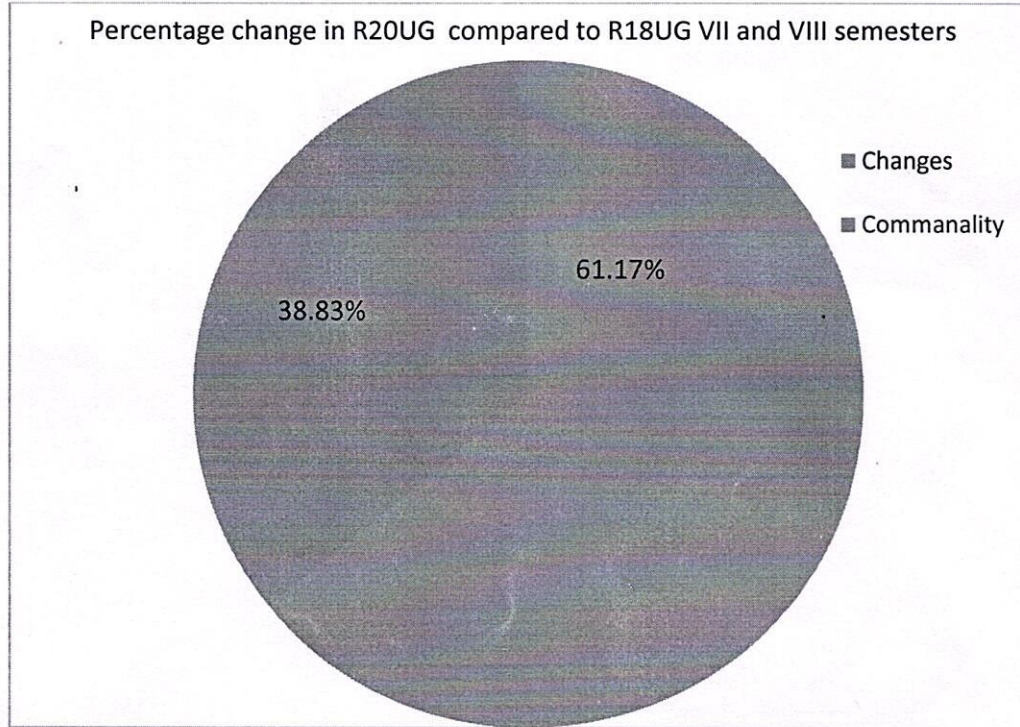
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2.	Dr. M. V. Narayana	Professor	
3.	Dr. V. Adinarayana Reddy	Professor	
4.	Sri R. V. Sreehari	Asso. Professor	
5.	Dr. S. L. Prathapa Reddy	Professor	

HOD

Professor & H.O.D.
Department of E.C.E.
K.S.R.M. College of Engineering
KADAPA - 516 003

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DEAN (Academics)
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Department of Computer Science and Engineering

Syllabus comparison between R23UG and R20UG

Programme: B. Tech.

Branch: CSE

Semester: I & II

AY: 2023-24

Sl. No.	Course code	Course Title	Percentage change in R23UG compared to R20UG
1	2321101	Linear Algebra and Calculus	60
2	2323102	Chemistry	40
3	23CM105	Basic Civil and Mechanical Engineering	100
4	2305107	Introduction to Programming	40
5	2305109	IT Workshop	40
6	2323111	Chemistry Lab	30
7	2303112	Engineering Workshop	20
8	2305113	Computer Programming Lab	40
9	2306117	Health And Wellness, Yoga and Sports	100
10	2321201	Differential Equations & Vector Calculus	40
11	2324201	Communicative English	80
12	2305202	Data Structures	100
13	2322204	Engineering Physics	30
14	23EE206	Basic Electrical & Electronics Engineering	100
15	2303208	Engineering Graphics	30
16	2305203	Data Structures Lab	100
17	2324210	Communicative English Lab	60
18	23EE214	Electrical & Electronics Engineering Workshop	100
19	2322215	Engineering Physics Lab	50



K.S.R.M. COLLEGE OF ENGINEERING

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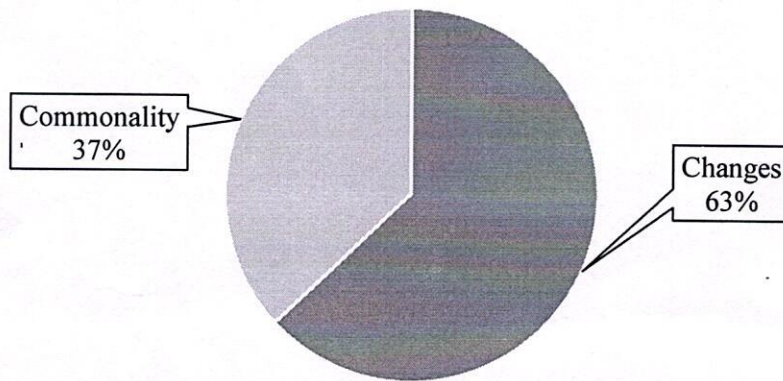
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20	2306216	NSS / NCC / Scouts & Guides / Community Service	100
Average Percentage Change in Curriculum			63

% Change in R23UG compared to R20UG, I year



Internal Evaluation Committee:

S.No	Name of the Faculty	Designation	Signature
1.	Dr. V. Lokeswara Reddy	Professor & HoD	
2.	Dr. K. Srinivasa Rao	Professor	
3.	Dr. S. Nageswara Rao	Associate Professor	
4.	Dr. V. Venkata Ramana	Associate Professor	
5.	Mrs. B. Manorama Devi	Assistant Professor	

HoD

Dr. V. LOKESWARA REDDY
M.Tech., Ph.D.
Professor & HOD CSE
K.S.R.M. College of Engineering (Autonomous)
KADAPA - 516 005.

Dean

DEAN (Academics)
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Syllabus Comparison between R20UG and R18UG for, AY 2023-24

Programme: B.Tech

Branch: Computer Science & Engineering

Semester: VII and VIII

S.No	Course Code	Course Title	Percentage of change in R20UG compared to R18UG
1	2005701	Compiler Design (PEC-III)	0
2	2005702	Computer Graphics (PEC-III)	0
3	2005703	Cyber Security (PEC-III)	0
4	2005704	Machine Learning (PEC-IV)	10
5	2005705	Object Oriented Analysis & Design (PEC-IV)	0
6	2005706	Natural Language Processing (PEC-IV)	100
7	2005707	Cloud Computing (PEC-V)	20
8	2005708	Deep Learning (PEC-V)	0
9	2005709	Computer Vision (PEC-V)	100
10	200E505	Operating System (OEC-III)	5
11	200E506	R Programming (OEC-III)	100
12	200E507	Python Programming (OEC-IV)	80
13	200E508	Cloud Computing (OEC-IV)	20
14	2005710	Big Data Technologies (Skill Oriented Course)	40
15	2005711	Internship	0
16	2005801	Major Project/ Internship	0
Average Percentage Changes in Curriculum (%)			29.69



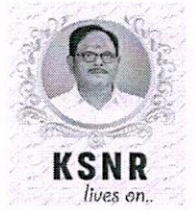
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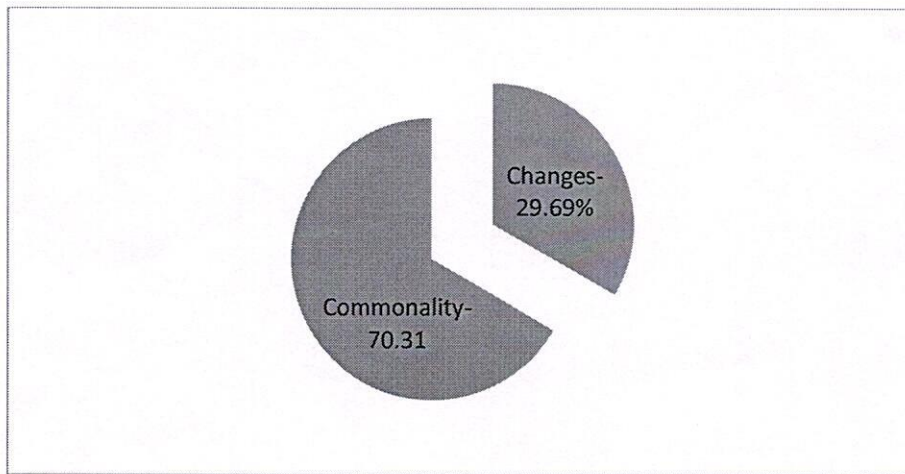
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Percentage change in R20UG Syllabus Compared to R18UG Syllabus

B.Tech VII & VIII Sem



Internal Evaluation Committee:

S.No	Name of the Faculty	Designation	Signature
1	Dr.V.Lokeswara Reddy	Professor & HOD	
2	Dr.M.Sreenivasulu	Professor	
3	Dr. N. Ramanjaneya Reddy	Associate Professor	
4	Dr. S. Nageswara Rao	Associate Professor	

HoD/CSE

Dr. V. LOKESWARA REDDY
M.Tech., Ph.D.,
Professor & HOD CSE
K.S.R.M. College of Engineering (Autonomous)
KADAPA - 516 005.

Dean Academics
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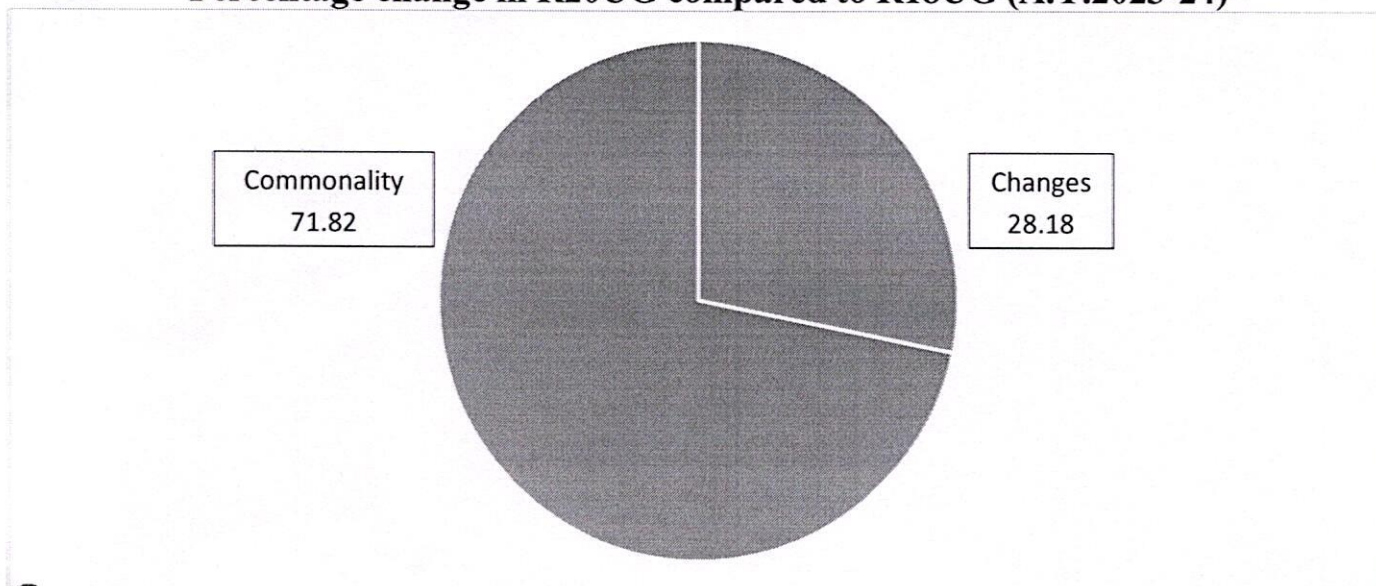
Department of Humanities & Sciences

Programme: B. Tech

Syllabus comparison between R20UG and R18UG (AY.2023-24)

S. No	Course Title	Course Code	Department	Percentage of change in R20UG compared to R18UG
Semester: VII				
1	Transforms and Its Applications	20OE612	OE	100
2	Physics of Renewable Energy	20OE613	OE	20
3	Fuel Technology	20OE614	OE	20
4	Academic Writing	20OE615	OE	20
5	Digital and Social Media Management	20OE616	OE	20
6	Advanced English communication skills	20246SC	ME	30
Semester: VIII				
7	Operations Research	20OE617	OE	20
8	Fundamentals of Quantum Computation and Nano photonics	20OE618	OE	20
9	Green Chemistry & Technology	20OE619	OE	20
10	Creative Writing	20OE620	OE	20
11	Materials Management	20OE621	OE	20
Average % change in curriculum				310/11= 28.18

Percentage change in R20UG compared to R18UG (A.Y.2023-24)



Internal Evaluation Committee:

S.NO	Name of the faculty	Designation	Signature
1.	Dr. G.Radha	Associate Professor	
2.	Sri. N. Bhaskara Reddy	Assistant Professor	
3.	Dr. G Ashok Reddy	Associate Professor	
4.	Dr.K.Venkata Ramana	Assistant Professor	
5.	Sri. Y. Ramana Reddy	Assistant Professor	

HOD

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