

**D.N.R.COLLEGE(AUTONOMOUS), BHIMAVARAM**  
**Academic Council Meeting Minutes**

Minutes of the meeting of the Academic Council of the D.N.R.College (Autonomous),  
Bhimavaram held on 07-10-2020 at 11:00 am through online in College Virtual Class Room.

**Agenda**

**Subject No.1:** To review the existing syllabi of 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup> and 6<sup>th</sup> semesters of B.A./B.Sc./ B.Com(Gen) /B.Com(Comp.Appl) programmes and 1<sup>st</sup> and 2<sup>nd</sup> semesters of M.A./ M.Com/M.Sc/M.B.A/M.C.A programmes.

**Subject No.2:** The Principal and Chairperson of the academic Council, on the recommendations of the following boards of studies of UG and PG programmes, places before the Academic Council for consideration and approval of minutes of the respective Board of Studies relating to the syllabi, text books, Model question papers, Instruction hours, allotment of Maximum marks for external examination and internal examination, allotment of Credits, lists of panel of paper setters and examiners etc., confining to 1<sup>st</sup> and 2<sup>nd</sup> semesters of B.A./B.Sc./ B.Com(Gen)/ B.Com(Comp.Appl) under Revised Choice Based Credit System and also confining to the 3<sup>rd</sup> and 4<sup>th</sup> semesters of M.A/M.Com/ M.Sc/ M.B.A/M.C.A for adoption from the academic year 2020-21.

**UG Courses:**

English, Telugu & Sanskrit, Life skill courses, Skill development courses, Mathematics, Statistics, Physics, Chemistry, Botany, Zoology, Geology, Electronics, Computer Science, Geography, History, Economics, Politics Social Work, Commerce, Biochemistry, Biotechnology and Microbiology.

**PG Courses:**

Telugu, Economics, Social work, Commerce, Mathematics, Physics, Organic Chemistry, Analytical Chemistry, Microbiology, Biotechnology, Computer Science, Business Administration(MBA) and Computer Applications(MCA).

**Subject No.3:** To introduce 2 year M.C.A. programme during the year 2020-21 onwards as per the directions of the A.I.C.T.E.

**Subject No.4:** To approve the minutes of the meetings of the Examination Committee meetings held on UG 05-10-2019, 23-03-2020, 05-05-2020, 06-09-2020 and PG held on 09-11-2019, 02-12-2019, 09-01-2020, 23-03-2020, 06-06-2020.

**Subject No.5:** To introduce a new programme i.e., B.Sc (Maths, Physics, web enabled technology) at undergraduate level from the academic year 2021-2022.

  
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**Subject No.6:** To introduce the following UGC Skill Based Courses under National Skill Qualification Framework (NSQF) subject to approval from UGC, New Delhi in this regard,

Diploma in Fundamentals of Accounting  
Diploma in Management  
Diploma in Fish Breeding  
Advanced Diploma in Income Tax  
Advanced Diploma in Disaster Management  
Advanced Diploma in Industrial Fisheries  
B.Voc (Accounting & Taxation)  
B.Voc (Risk Management)  
B.Voc (Commercial Aquaculture)

**Subject No.7:** To discuss the conduct of CAT-2 examination of each semester through online for UG programmes applicable for the batch of students joined B.A./B.Sc./ B.Com(Gen)/ B.Com(Comp.Appl) under Revised Choice Based Credit System during the year 2020-21 onwards.

**Subject No.8:** To discuss and approve the measures to be taken to conduct online classes in all courses of UG and PG programmes for the respective semesters during the academic year 2020-21 as the physical presence of students is not possible due to improbable and unpredictable COVID-19 pandemic situation occurred.

**Subject No.9:** To discuss and approve the measures to be taken to conduct online examinations in all courses of UG and PG programmes for the respective semesters if the physical presence of students is not possible due to improbable and unpredictable pandemic situation like COVID-19 occurred.

**Subject No.10:** To discuss and approve the conduct of practical examinations/project adjudication of the respective semesters for UG and PG programmes with internal examiners only if the physical presence of the faculty from other institutions is not possible to attend the said practical examinations/project adjudication as external examiners due to improbable and unpredictable pandemic situation like COVID-19 occurred.

**Subject No.11:** To review the functioning MoUs on hand and to checkout modalities to enter into further MoUs with academically renowned institutions, Research laboratories, industries based upon the need of revised CBCS curriculum.

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**Subject No.12:** To discuss and approve the initiatives for the inclusive development of Learning Management System(LMS) in the institution by generating e-content and online courseware effectively and plausibly.

**Subject No.13:** To explore the possibilities to conduct Virtual Practical Classes in UG and PG programmes by setting up relevant apps, if the physical presence of students is not possible due to improbable and unpredictable pandemic situation like COVID-19 occurred.

**Subject No.14:** To procure electronic gadgets for webcasting webinars, virtual lectures, video lessons to be uploaded to youtube, preparation of PPTs etc, with zero technical glitches.

**Subject No.15:** To discuss the conduct of Seminars/Conferences/Workshops/Symposiums duly utilizing the UGC grants as a part of effective implementation of Co-curricular activities.

**Subject No.16:** To discuss the conduct of Orientation programmes in different new courses that are introduced under Revised Choice Based Credit System duly utilizing the UGC grants, as a part of effective implementation of Co-curricular activities.

**Subject No.17:** To discuss the steps to be taken to woo the students towards research programmes.

**Subject No.18:** To authorize Chairman/Chairperson of the respective Board of Studies to include, delete and / or make any sort of modifications in any course duly following the guidelines, and as communicated by the affiliating university / APSCHE / UGC / AICTE from time to time.

**Subject No.19:** To discuss the steps to be taken to motivate the faculty and students of both UG and PG programmes to join MOOCS under the scheme of UGC's SWAYAM which is initiated by the MHRD, Govt., of India.

**Subject No.20:** To ratify the action of Chairpersons, Boards of Studies of Commerce and Botany regarding introduction of the following new courses during the academic year 2021-22 onwards and the approval of syllabus, model question papers, course structure etc., of the same.

B.B.A.,(Aviation and Tourism Management)  
B.Sc., (Hons), Agriculture.

*B.S.*  
CHAIRPERSON

*B.S.*  
PRINCIPAL  
D.N.R. COLLEGE  
BHIMAVARAM.



**D.N.R.COLLEGE(Autonomous), Bhimavaram**  
**Academic Council Meeting Minutes**

Minutes of the meeting of the Academic Council of the D.N.R.College (Autonomous),  
Bhimavaram held on 07-10-2020 at 11:00 am through online in College Virtual Class Room

**Resolutions**

**Resolution No.1:** Reviewed the existing syllabi of 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup> and 6<sup>th</sup> semesters of B.A./B.Sc./ B.Com(Gen) /B.Com(Comp.Appl) programmes and 1<sup>st</sup> and 2<sup>nd</sup> semesters of M.A./ M.Com/M.Sc/M.B.A/M.C.A programmes in detailed and found to be satisfactory

**Resolution No.2:** Resolved to consider and approve the minutes of the respective Board of Studies relating to the syllabi, text books, Model question papers, Instruction hours, allotment of Maximum marks for external examination and internal examination, allotment of Credits, lists of panel of paper setters and examiners etc., confining to 1<sup>st</sup> and 2<sup>nd</sup> semesters of B.A./ B.Sc./ B.Com(Gen) / B.Com(Comp.Appl) under Revised Choice Based Credit System and also confining to the 3<sup>rd</sup> and 4<sup>th</sup> semesters of M.A/M.Com/ M.Sc/ M.B.A/M.C.A for adoption from the academic year 2020-21.

**UG Courses:**

English, Telugu & Sanskrit, Life skill courses, Skill development courses, Mathematics, Statistics, Physics, Chemistry, Botany, Zoology, Geology, Electronics, Computer Science, Geography, History, Economics, Politics Social Work, Commerce, Biochemistry, Biotechnology and Microbiology.

**PG Courses:**

Telugu, Economics, Social work, Commerce, Mathematics, Physics, Organic Chemistry, Analytical Chemistry, Microbiology, Biotechnology, Computer Science, Business Administration(MBA) and Computer Applications(MCA).

**Resolution No.3:** Resolved to introduce 2 year M.C.A. programme during the year 2020-21 onwards as per the directions of the A.I.C.T.E

**Resolution No.4:** Resolved to approve the minutes of the meetings of the Examination Committee held on UG 05-10-2019, 23-03-2020, 05-05-2020, 06-09-2020 and PG held on 09-11-2019, 02-12-2019, 09-01-2020, 23-03-2020, 06-06-2020.

**Resolution No.5:** Resolved to introduce a new programme i.e., B.Sc (Maths, Physics, web enabled technology) at undergraduate level from the academic year 2021-2022.



**Resolution No.6:** Resolved to introduce the following UGC Skill Based Courses under National Skill Qualification Framework (NSQF), subject to approval from UGC, New Delhi in this regard.

- Diploma in Fundamentals of Accounting
- Diploma in Management
- Diploma in Fish Breeding
- Advanced Diploma in Income Tax
- Advanced Diploma in Disaster Management
- Advanced Diploma in Industrial Fisheries
- B.Voc (Accounting & Taxation)
- B.Voc (Risk Management)
- B.Voc (Commercial Aquaculture)

**Resolution No.7:** Discussed thoroughly and resolved to conduct CAT-2 examination of each semester through online for UG programmes applicable for the batch of students joined B.A./B.Sc./ B.Com(Gen)/ B.Com(Comp.Appl) under Revised Choice Based Credit System during the year 2020-21 onwards.

**Resolution No.8:** Discussed thoroughly and resolved to approve the measures to be taken to conduct online classes in all courses of UG and PG programmes for the respective semesters during the academic year 2020-21 as the physical presence of students is not possible due to improbable and unpredictable COVID-19 pandemic situation occurred.

**Resolutions No.9:** Discussed thoroughly and resolved to approve the measures to be taken to conduct online examinations in all courses of UG and PG programmes for the respective semesters if the physical presence of students is not possible due to improbable and unpredictable pandemic situation like COVID-19 occurred.

**Resolution No.10:** Discussed in detailed and resolved to approve the conduct of practical examinations/project adjudication of the respective semesters for UG and PG programmes with internal examiners only if the physical presence of the faculty from other institutions is not possible to attend the said practical examinations/project adjudication as external examiners due to improbable and unpredictable pandemic situation like COVID-19 occurred.

**Resolution No.11:** Reviewed the functioning of MoUs on hand and resolved to checkout modalities to enter into further MoUs with academically renowned institutions, Research laboratories, industries based upon the need of revised CBCS curriculum.



**Resolution No 12:** Discussed thoroughly and resolved to approve the initiatives for the inclusive development of Learning Management System (LMS) in the institution by generating e-content and online course ware effectively and plausibly.

**Resolution No 13:** Thoroughly discussed the possibilities and resolved to conduct Virtual Practical Classes in UG and PG programmes by setting up relevant apps , if the physical presence of students in not possible due to improbable and unpredictable pandemic situation like COVID-19 occurred.

**Resolution No 14:** Resolved to procure electronic gadgets for webcasting webinars, Virtual lectures, video lessons to be upload to youtube, preparation of PPTs etc, with zero technical glitches ,

**Resolution No 15:** Discussed in detailed and resolved to conduct the seminars/Conferences / Workshops/Symposiums duly utilizing the UGC grants as a part of effective implementation of Co-curricular activates.

**Resolution No 16:** Discussed thoroughly and resolved to conduct Orientation programmes in different new courses that are introduced under Revised Choice Based Credit System duly utilizing the UGC grants as a part of effective implementation of Co-curricular activities.

**Resolution No 17:** Discussed in detailed and resolved to take steps to the students towards research programmes.

**Resolution No 18:** Resolved to authorize Chairman/Chairperson of the respective Board of Studies to include , delete and /or make any sort of modifications in any course duly following the guidelines ,and as communicated by the affiliating university /APSCHE/UGC/AICTE from time to time.

**Resolution No 19:** Discussed in detailed and resolved to take steps to motivate the faculty and students of both UG and PG programs to join MOOCS and under the scheme of UGC .s SWAYAM which is initiated by the MHRD, Govt ., of India .

**Resolution No 20:** Resolved to ratify the action of Chairpersons, Board of Studies of Commerce and Botany regarding introduced of the following new courses during the academic year 2021-22 onwards and approval of syllabus, model question papers, course structure etc ., of the same .

**Resolution No 21:** Resolved to approve /ratify the courses introduced during the academic year 2020-21 as per the recommendations of the respective Boards of Studies in UG and PG as the case may be .( Refer Annexure No.1)

*Bslc*  
PRINCIPAL  
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BHIMAVARAM.

*Bslc*  
Chairman,  
Academic Council  
D.N.R. College (Autonomous)  
BHIMAVARAM-534 202.



# DANTULURI NARAYANA RAJU COLLEGE

(Autonomous)

BHIMAVARAM, W.G.DIST, ANDHRA PRADESH, INDIA, PIN- 534202.

(Accredited at 'B<sup>++</sup>' level by NAAC)

(Affiliated to Adikavi Nannaya University, Rajamahendravaram)

**Academic Year: 2020-21**

S.No	Name of the Programme	Community service Project / Internship /Field project /projects
1.	BA(HEP)	INTERNSHIP
2.	BA(SEP)	INTERNSHIP
3.	BA(GHT)	INTERNSHIP
4.	B.COM (GENERAL)	INTERNSHIP
5.	B.SC(MPC)	INTERNSHIP
6.	B.SC(SMP)	INTERNSHIP
7.	B.SC(GMP)	INTERNSHIP
8.	B.SC(BZC)	INTERNSHIP
9.	BA(GHP)	INTERNSHIP
10.	B.COM(CA)	INTERNSHIP
11.	B.SC(MSCs)	INTERNSHIP
12.	B.SC(MPCs)	INTERNSHIP
13.	B.SC(MECs)	INTERNSHIP
14.	B.SC(MGCs)	INTERNSHIP
15.	B.SC(MCCs)	INTERNSHIP
16.	B.Sc(GPC)	INTERNSHIP
17.	B.SC(BMB)	INTERNSHIP
18.	B.SC(BBC)	INTERNSHIP
19.	B.SC(MB.BC.CS)	INTERNSHIP
20.	B.SC(MB.C.CS)	INTERNSHIP
21.	B.SC(MCG)	INTERNSHIP
22.	B.SC(ZCAT)	INTERNSHIP
23.	B.VOC(RM)	INTERNSHIP
24.	B.VOC(A&T)	INTERNSHIP
25.	B.VOC(CA)	INTERNSHIP
26.	M.A. Economics	Project
27.	M.Com	Project
28.	M.Sc.(Organic Chemistry)	Project



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29.	M.Sc.(Analytical Chemistry)	Project
30.	M.Sc.(Microbiology)	Project
31.	M.Sc.(Biotechnology)	Project
32.	M.Sc.(Mathematics)	Project
33.	M.Sc.(Physics)	Project
34.	M.Sc.(Computer Science)	Project
35.	M.B.A	Project
36.	M.C.A	Project

Controller of Examinations,  
D.N.R. College (Autonomous),  
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Chairman,  
Academic Council  
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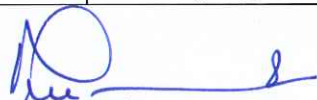
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**Academic Year: 2020-21**

S.No	Name of the Programme	Number of the students
1.	BA(HEP)	31
2.	BA(SEP)	14
3.	BA(GHT)	24
4.	B.COM (GENERAL)	187
5.	B.SC(MPC)	154
6.	B.SC(SMP)	9
7.	B.SC(GMP)	15
8.	B.SC(BZC)	101
9.	BA(GHP)	14
10.	B.COM(CA)	161
11.	B.SC(MSCs)	64
12.	B.SC(MPCs)	166
13.	B.SC(MECs)	111
14.	B.SC(MGCs)	70
15.	B.SC(MCCs)	48
16.	B.Sc(GPC)	21
17.	B.SC(BMB)	29
18.	B.SC(BBC)	13
19.	B.SC(MB.BC.CS)	24
20.	B.SC(MB.C.CS)	10
21.	B.SC(MCG)	8
22.	B.SC(ZCAT)	49
23.	B.VOC(RM)	11
24.	B.VOC(A&T)	26
25.	B.VOC(CA)	15
26.	M.A. Economics	19
27.	M.Com	18
28.	M.Sc.(Organic Chemistry)	37

  
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Chairman,  
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29.	M.Sc.(Analytical Chemistry)	29
30.	M.Sc.(Microbiology)	39
31.	M.Sc.(Biotechnology)	33
32.	M.Sc.(Mathematics)	18
33.	M.Sc.(Physics)	10
34.	M.Sc.(Computer Science)	17
35.	M.B.A	63
36.	M.C.A	64

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UG Program (4 years Honors) Structure (CBCS)

2020-21 A. Y., onwards

BACHLOR OF SCIENCE

Subjects/ Semesters	I		II		III		IV		V		VI				
	H/W	C	H/W	C	H/W	C	H/W	C	H/W	C	H/W	C			
<b>Languages</b>														<b>First and SECOND PHASES (2 spells) of APPRENTICESHIP between 1st and 2nd year and between 2nd and 3rd year (two summer vacations).</b>	
English	4	3	4	3	4	3									
Language (H/T/S)	4	3	4	3	4	3									
Life Skill Courses	2	2	2	2	2+2	2+2									
Skill Development Courses	2	2	2+2	2+2	2	2									
<b>Core Papers</b>															
M-1	C1 to C5	4+2	4+1	4+2	4+1	4+2	4+1	4+2	4+1						
M-2	C1 to C5	4+2	4+1	4+2	4+1	4+2	4+1	4+2	4+1						
M-3	C1 to C5	4+2	4+1	4+2	4+1	4+2	4+1	4+2	4+1						
M-1	SEC (C6,C7)									4+2	4+1				
M-2	SEC (C6,C7)									4+2	4+1				
M-3	SEC (C6,C7)									4+2	4+1				
<b>Internship/ Apprenticeship/</b> on the job training Semester															
<b>Hrs/ W (Academic Credits)</b>		30	25	32	27	32	27	36	30	36	30	0	12	4	4
<b>Project Work</b>															
<b>Extension Activities (Non Academic Credits)</b>															
NCC/NSS/Sports/Extra Curricular															
Yoga															
Extra Credits															
<b>Hrs/W (Total Credits)</b>		30	25	32	27	32	28	36	33	36	30	0	12	4	4

M= Major; C= Core; SEC: Skill Enhancement Courses

  
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## Marks & Credits distribution: UG-Sciences

Sl. No	Course type	No. of courses	Each course teaching Hrs/wk	Credit for each course	Total credits	Each course evaluation			Total marks
						Conti-Assess	Univ-exam	Total	
1	English	3	4	3	9	25	75	100	300
2	S.Lang	3	4	3	9	25	75	100	300
3	LS	4	2	2	8	0	50	50	200
4	SD	4	2	2	8	0	50	50	200
5	Core/SE -I	5+2	4+2	4+1	35	25	75+50	150	1050
	Core/SE -II	5+2	4+2	4+1	35	25	75+50	150	1050
	Core/SE -III	5+2	4+2	4+1	35	25	75+50	150	1050
6	Summer-Intern	2		4	8		100	200	200
7	Internship/ Apprentice/ on the job training	1		12	12		200	200	200
		<b>38</b>			<b>159</b>				<b>4550</b>
8	<b>Extension Activities (Non Academic Credits)</b>								
	NCC/NSS/Sports/ Extra Curricular			2	2				
	Yoga			2	2				
	Extra Credits								
	<b>Total</b>	<b>40</b>			<b>142</b>				

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UG Program (4 years Honors) Structure (CBCS)

2020-21 A. Y., onwards

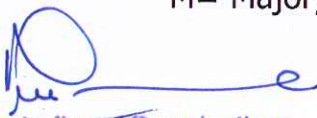
BACHLOR OF BA/BCOM/BBA


Subjects/Semesters		I		II		III		IV		V		VI			
		Hrs /W	Cre dits	Hrs /W	Cre dits	Hrs /W	Cre dits	Hrs /W	Cre dits	Hrs /W	Cre dits	Hrs /W	Cre dits		
<b>Languages</b>															
English		4	3	4	3	4	3								
Language (H/T/S)		4	3	4	3	4	3								
Life Skill Courses		2	2	2	2	2+	2								
Skill Development Courses		2	2	2+	2	2	2								
<b>Core Papers</b>															
M - 1	C1 to C5	5	4	5	4	5	4	5	4						
M - 2	C1 to C5	5	4	5	4	5	4	5	4						
M - 3	C1 to C5	5	4	5	4	5	4	5	4						
M - 1	SEC (C6,C7)									5	4				
M - 2	SEC (C6,C7)									5	4				
M - 3	SEC (C6,C7)									5	4				
<b>Hrs/W (Academic Credits)</b>		27	22	29	24	29	24	30	24	30	24	0	12	4	4
<b>Project Work</b>															
<b>Extension Activities (Non Academic Credits)</b>															
NCC/NSS/Sports/Extra Curricular									2						
Yoga							1		1						
Extra Credits															
<b>Hrs/W (Total Credits)</b>		27	22	29	24	29	25	30	27	30	24	0	12	4	4

Internship/ Apprentice/ on the job training

FIRST and SECOND PHASES (2 spells) of Internship/ Apprentice/ between 1st and 2nd year and between 2nd and 3rd year (twosummer vacations).

M= Major; C= Core; SEC: Skill Enhancement Courses

  
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(Autonomous)


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## Marks & Credits distribution: BA/BCOM/BBA

Sl. No	Course type	No. of courses	Each course teaching Hrs/wk	Credit for each course	Total credits	Each course evaluation			Total marks
						Conti-exam	Univ-exam	Total	
1	English	3	4	3	9	25	75	100	300
2	S.Lang	3	4	3	9	25	75	100	300
3	LS	4	2	2	8	0	50	50	200
4	SD	4	2	2	8	0	50	50	200
5	Major/Core/SE -I	5+2	5	4	28	25	75	100	700
	Major/Core/SE -II	5+2	5	4	28	25	75	100	700
	Major/Core/SE -III	5+2	5	4	28	25	75	100	700
6	Summer-Intern	2		4	8		100	200	200
7	Internship/ Apprentice/ on the job training	1		12	12		200	200	200
		<b>38</b>			<b>138</b>				<b>3500</b>
8	<b>Extension Activities (Non Academic Credits)</b>								
	NCC/NSS/Sports/Extra Curricular			2	2				
	Yoga	2		1	2				
	Extra Credits								
	<b>Total</b>	<b>40</b>			<b>142</b>				

  
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# DANTULURI NARAYANA RAJU COLLEGE

(AUTONOMOUS)

Department of MCA

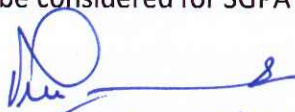
MCA- COURSE STRUCTURE


(2020-2021)

Semester I

Code	Course Title	Max Marks		Total Marks	Hours per week		Credits
		External	Internal		Theory	Practical	
MCA-20101	Discrete Mathematical Structures	75	25	100	4	-	4
MCA-20102	Management Accountancy	75	25	100	4	-	4
MCA-20103	C Programming & Data Structures	75	25	100	4	-	4
MCA-20104	Computer Organization	75	25	100	4	-	4
MCA-20105	Operating Systems	75	25	100	4	-	4
MCA-20106	Design & Analysis of Algorithms	75	25	100	4	-	4
MCA-20107	C Programming & Data Structures Lab	50	50	100	-	3	2
MCA-20108	Operating Systems and Computer Organization Lab	50	50	100	-	3	2
MCA-20109	Skill Development Course/ MOOCS	50	50	100	-	3	2
MCA-20110	<b>Bridge Course*</b> Fundamentals of Computers (For General B.Sc/B.A./B.Com Students)	75	25	100	4	-	4
MCA-20111	<b>Bridge Course Lab*</b> Fundamentals of Computers Lab (For General B.Sc/B.A./B.Com Students)	50	50	100	-	3	2
Total Credits							30

Note: All the General B.Sc/B.A./B.Com Students must pass the Bridge Course (MCA-20110) and Bridge Course Lab (MCA-20111) with minimum 50% marks, but the credits allotted for that courses will not be considered for SGPA calculation.

  
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## Semester II

Code	Course Title	Max Marks		Total Marks	Hours per week		Credits
		External	Internal		Theory	Practical	
MCA-20201	Computer Networks	75	25	100	4	-	4
MCA-20202	Object Oriented Programming through JAVA	75	25	100	4	-	4
MCA-20203	Database Management Systems	75	25	100	4	-	4
MCA-20204	Formal Languages and Automata Theory	75	25	100	4	-	4
MCA-20205	Data Mining Concepts and Techniques	75	25	100	4	-	4
MCA-20206	Elective-I 1. Artificial Intelligence and Expert Systems 2. Internet of Things 3. Image Processing	75	25	100	4	-	4
MCA-20207	Object Oriented Programming through JAVA Lab	50	50	100	-	3	2
MCA-20208	Database Management Systems Lab	50	50	100	-	3	2
MCA-20209	Skill Development Course with Python	50	50	100	1	2	2
Total Credits							30

**Note:** 2 lab Hrs and 1 Theory Hrs/Week or 2 Theory Hrs/ Week for Skill Development Course.

Summer Internship (Mandatory) after First Year (to be evaluated during III semester).

  
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### Semester III


Code	Course Title	Max Marks		Total Marks	Hours Per Week		Credits
		External	Internal		Theory	Practical	
MCA-20301	Information Security and Cryptography	75	25	100	4	-	4
MCA-20302	Big Data Analytics	75	25	100	4	-	4
MCA-20303	Object Oriented Software Engineering	75	25	100	4	-	4
MCA-20304	Web Technologies	75	25	100	4	-	4
MCA-20305	Elective II 1. Blockchain Technology 2. Cloud Computing 3. Machine Learning and Deep Learning	75	25	100	4	-	4
MCA-20306	Elective-III 1. Business Intelligence and Visualization 2. Robotics 3. Foundations of Data Science	75	25	100	4	-	4
MCA-20307	Web Technologies and Object Oriented Software Engineering Lab	50	50	100	-	3	2
MCA-20308	Big Data Analytics lab	50	50	100	-	3	2
MCA-20309	Innovation, Entrepreneurship and Intellectual Property Rights	-	50	50	2	-	0
MCA-20310	Summer Internship	50	50	100	-	-	2
Total Credits							30

Note: Summer Internship 2 Months (Mandatory) after First Year (to be evaluated during III semester).

### Semester IV

Code	Course Title	Max Marks		Total Marks	Hours Per Week		Credits
		Internal	External		Theory	Practical	
MCA-20401	Project	150	200	350	-	-	10
Total Credits							10

  
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# DANTULURI NARAYANA RAJU COLLEGE (AUTONOMOUS)

**P.G.Department of Economics**

**M.A., ECONOMICS- COURSE STRUCTURE**

**(2020-2021)**

				Intrl	Extrl	Total	Periods/ Week	Credits
<b>SEMESTER-I</b>								
1	ECO	101	Micro Economic Analysis - I	25	75	100	6	4
2	ECO	102	Macro Economic Analysis - I	25	75	100	6	4
3	ECO	103	Quantitative Methods – I (Mathematics)	25	75	100	6	4
4	ECO	104	Public Economics - I	25	75	100	6	4
5	ECO	105	Indian Economic Policy - I	25	75	100	6	4
<b>SEMESTER-II</b>								
1	ECO	201	Micro Economic Analysis - II	25	75	100	6	4
2	ECO	202	Macro Economic Analysis - II	25	75	100	6	4
3	ECO	203	Quantitative Methods – II (Statistics)	25	75	100	6	4
4	ECO	204	Public Economics - II	25	75	100	6	4
5	ECO	205	Indian Economic Policy - II	25	75	100	6	4
<b>SEMESTER-III</b>								
1	ECO	301	Evolution of Economic Doctrines	25	75	100	6	4
2	ECO	302	International Trade	25	75	100	6	4
3	ECO	303	Economics of Education & Health	25	75	100	6	4
4	ECO	304	Industrial Economics	25	75	100	6	4
5	ECO	305	Labour Economics	25	75	100	6	4
<b>SEMESTER-IV</b>								
1	ECO	401	Economics of Growth and Development	25	75	100	6	4
2	ECO	402	International Finance	25	75	100	6	4
3	ECO	403	Environmental Economics	25	75	100	6	4
4	ECO	404	Demography	25	75	100	6	4
5	ECO	405	Regional Economics	25	75	100	6	4
			Project Report			50		4
			Comprehensive Viva-Voce			50		4
			<b>GRANDTOTAL</b>			<b>2100</b>		

  
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