

SANTOSH

Deemed to be University



1.2.1 Percentage of Programmes in which Choice-Based Credit System (CBCS) / Elective Course System has been implemented, wherever provision was made by the Regulatory Bodies

1.2.1 Percentage of Programmes in which Choice-Based Credit

S No.	Name of Programmes	Programme Code	Year of Implementation
1	Implementation of CBCS Regulations in M.Sc Medical Microbiology	MMM02	2019
2	Implementation of CBCS Regulations in M.Sc Medical Anatomy	MMA03	2019
3	Implementation of CBCS Regulations in M.Sc Medical Biochemistry	MMB04	2019
4	Implementation of CBCS Regulations in M.Sc Medical Physiology	MMP05	2019
5	Implementation of CBCS Regulations in PhD	PhD001	2020



SANTOSH

Deemed to be University

(Established u/s 3 of the UGC Act, 1956)

No.1 Santosh Nagar, Ghaziabad-201 009, NCR Delhi,
Ph. No. 0120-2743419 Fax No. 0120-2741140 Email:santosh@santoshdeemedtobeuniversity.com

MINUTES OF THE 35th ACADEMIC COUNCIL HELD ON 24.07.2019
AT 03.30 PM IN THE MAHARAJA HALL, SANTOSH MEDICAL
COLLEGE, GHAZIABAD, NCR DELHI.

The Members of the Academic Council who were present in the Meeting the Attendance list is attached in this regard.

At the outset, the Officiating Vice Chancellor Dr. Tripta S Bhagat, welcomed all the members of the Academic Council.

The following Agenda Items were taken up for discussion:

Item: 1

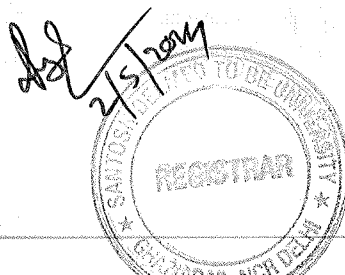
CONFIRMATION OF THE MINUTES OF 34th MEETING OF THE ACADEMIC COUNCIL HELD ON 29.03.2019 AT 02.30 PM.

The Minutes of 34th meeting of the Academic Council held on 29.03.2019 at 2.30 PM were circulated to all members of Academic Council for their information and comments, if any. No comments were received; hence, the Minutes **were confirmed.**

Item: 2

ACTION TAKEN ON THE MINUTES OF 34th MEETING OF THE ACADEMIC COUNCIL HELD ON 29.03.2019 AT 02.30 PM.

The Action Taken on the Minutes of 34th meeting of the Academic Council held on 29.03.2019 at 2.30 PM were circulated to all Members of the Academic Council for their information and comments, if any. No comments were received; hence, the Minutes **were confirmed.**



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BDS, II BDS, III BDS AND IV BDS FOR THE NEW SESSION OF EACH BATCH TO BE STARTING FROM 1ST AUGUST 2019.

The Members/ Chairpersons of the Academic Council **noted** that following teaching schedules for August / September 2019 new session of each batch have been compiled and printed and will be distributed to the students as well as to the concerned department's faculty and appreciated the same and decided that the same may also be continued in future.

1. I MBBS [Revised as per MCI] - 2019 Batch
[Regulations and Syllabus cum Teaching Schedule]
2. II MBBS - 2018 Batch
3. I BDS - 2019 Batch
4. II BDS - 2018 Batch
5. III BDS - 2017 Batch
6. IV BDS - 2016 Batch

D. TO CONSIDER THE CHOICE BASED CREDIT SYSTEM FOR MASTER OF SCIENCE MEDICAL PROGRAMME OFFERED AT SANTOSH MEDICAL COLLEGE & HOSPITAL, SANTOSH DEEMED TO BE UNIVERSITY, GHAZIABAD, NCR DELHI.

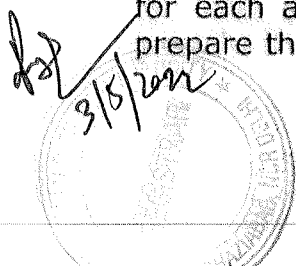
The Members / Chairpersons of the Academic Council considered in detail the **recommendations/Minutes** of the BOS regarding implementation of Choice Based Credit System for the M.Sc. Medical Courses offered from the Academic year 2019-20 onwards at Santosh Medical College & Hospital, Santosh Deemed to be University, Ghaziabad, NCR Delhi, and **approved** the same as under:

1. PREAMBLE

The degree of Medical Master of Science (M.Sc.) in Faculty of Medicine shall be awarded to a candidate who, as per these regulations, has successfully undergone the programme, passed the prescribed Theory; Practical / Clinical Examinations and thereby qualified to receive the degree.

2. GENERAL CONSIDERATIONS AND TEACHING APPROACH

There is a definite shift from the traditional towards advancements in Medicine, Science and Technology and the increasing needs deeper analysis of microorganisms, diagnosis, disease caution, chemical combinations, biological reactions, investigation of anatomical structures etc. leading to worthwhile researches in the fields of Anatomy, Physiology, Biochemistry and Microbiology. Such specialists like all other health professionals are confronted with many ethical problems. It is therefore absolutely necessary for each and every one, dealing with health care and related fields, to prepare them to deal with a lot many problems. To accomplish this and



develop human values, it is desired that all the trainees undergo ethical sensitization by lectures or discussion on ethical issues, discussion of cases with an important ethical component, and to facilitate the same, it is decided to have the Choice Based Credit System (CBCS) for the students opting the Medical M.Sc., programme of the University.

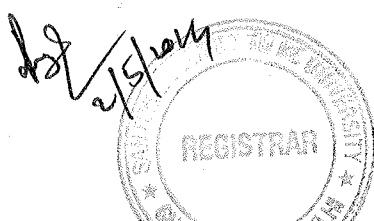
The Choice Based Credit System (CBCS) provides ample opportunity for multiple entries, large number of electives, flexible pace for earning credits, carryover of such credits, and choice of courses from other branches. Further it has the ability to accommodate diverse choices that the students may like to have as an abled Professional. In view of the above advantages it has been decided to implement the CBCS from the academic year 2020-21 onwards.

3. THE OBJECTIVES OF CBCS

- 3.1. To enrich the horizon of knowledge of students by means of Discipline Specific Core Course, Discipline Specific Elective Course, Generic Elective Course and Ability Enhancement Courses.
- 3.2. To ensure more interaction between the teacher and taught in class room and extra class room programmes.
- 3.3. To offer flexibility in choosing the courses of study according to their needs and learning capacity.
- 3.4. To enlighten the students on the rich culture of our nation and ethical values underlying real life situations.
- 3.5. To allow the advanced learner to earn extra credits.
- 3.6. To expose the students to the world of social commitment through specially designed components more than the Curricular aspects like co-curricular and extra-curricular activities with a blend of more social responsibilities like Village adoption, Outreach programmes and other Industry interface programmes.

4. ELIGIBILITY FOR ADMISSION

- 4.1 All admission to Medical M.Sc. programme within the respective categories shall be based solely on the marks obtained in the qualifying examinations at the Undergraduate level in various specializations from a recognized University.
- 4.2 In order to be eligible for the Medical M.Sc. programme, a student must obtain a minimum of 50 % aggregate marks in Bachelor of Medical Lab Technology / B.Sc. Degree Examinations with Physics, Chemistry, Botany or Zoology in the main subjects.



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4.3 The candidates who possess degree of BDS / BMLT / BOT / BPT / BMM / B.Sc. Degree with Physics, Chemistry, Botany or Zoology with 50 % Aggregate Marks as the main subjects, are eligible to apply.

4.4 There is no upper age limit for the students applying for the Medical M.Sc. programme

5. CUT OFF DATE

Candidates selected for admission to the Medical M.Sc. programme shall be admitted up to 30th September of the said academic year.

6. MEDIUM OF INSTRUCTION

English shall be the medium of instruction for all the courses of the Medical M.Sc. programme.

7. DURATION OF THE PROGRAMME

The period for the award of Medical M.Sc. degree shall be of three years duration for three academic years as full time candidate in the Institution including the period of examinations. The maximum period for completion of Medical M.Sc. Programme shall be six years from the date of admission to the said course, failing which the candidate must rejoin afresh

8. MIGRATION

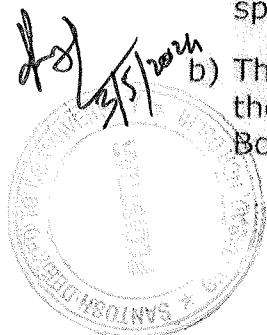
Under no circumstances, the migration or the transfer of students undergoing post-graduate Medical Degree shall be permitted by the University or the authority. No inter-change of the specialty in the same institution or in any other institution shall be permitted after the commencement of session.

9. PROGRAM STRUCTURE

9.1. Curriculum

a) The curriculum and the syllabus for the course pertaining to the M.Sc. Medical PG Programme are given separately as per their specialization.

b) The curriculum and the syllabus for the course shall be prescribed by the Academic Council based on the recommendations of concerned Board of Faculty and Board of Studies and duly approved by the Board



of Management of the Institution Deemed to be University.

9.2. Components of Curriculum

There shall be six components for Medical M.Sc. curriculum extended throughout the entire period of study as follows:

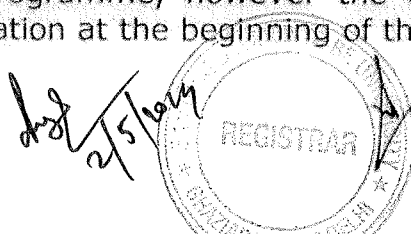
SN	Components	No. of Courses	Theory Credits	Practical Credits	Total Credits
1	Discipline Specific Core Courses (Anatomy, Physiology, Biochemistry)	3T + 3P	12	12	24
2	Discipline Specific Specialty Courses viz. Anatomy, Physiology, Biochemistry & Microbiology	3T	18	-	18
3	Ability Enhancement Course (Optional)	1	2	-	2
4	Generic Elective Course (Optional)	1	4	-	4
5	Teaching Learning Requirements [Continuous Internal Assessment]	1	-	12	12
6	Practical / Clinical Postings	1	-	12	12
7	Dissertation & Viva-voce	1	-	14	14
Total		12 + 2	30 + 6	50	80 + 6 (optional)

a) Discipline Specific Core Courses (DSCC – as per (1) above):

The compulsory courses irrespective of the various specializations as per the Medical post-graduate programme form the Discipline Specific Core Courses of the said PG programme and it is mandatory for the students to compulsorily take up the said courses and its credits in order to complete the programme.

b) Discipline Specific Specialty Courses (DSSC – as per (2) above)

The Discipline Specific Specialty Courses are offered as per the various specializations opted as per the candidature and application for which the candidate is being admitted. The DSSC is offered as a combo of 3 papers which shall be examined at the end of the third year from the date of admission to the programme, however the candidate shall opt the programme of specialization at the beginning of the second year itself.



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c) Ability Enhancement Courses (AEC) - Optional:

The Ability Enhancement Course has been designed with focus on competency / employability / skill development offered either on collaboration with partner Institutions / Industries, the said recognized MOOCs programme offered by any other Universities from time to time. The Ability Enhancement Course opted by the candidate shall not be considered for the calculation of CGPA and final classification of results as the nature of the course is being offered as non-CGPA course.

AEC offered by the Partner Institution / SWAYAM - MOOCs

- (i) Soft skill development
- (ii) Language and Communication Skill development
- (iii) Yoga and Wellness
- (iv) Analytical Skill development
- (v) Human value development
- (vi) Personality / Professional Development
- (vii) Employability Skills development

If a student wishes to opt for a MOOCs course, an appropriate **Three Member Committee** shall be formed by the Institution Deemed to be University headed by the Vice-Chancellor. The committee shall, on careful examination of the reliability and validity, including the examination patterns of the said MOOCs course, recommend the student for the entitlement of Credit transfer on production of the course completion / pass certificate / grade sheet indicating pass and duly approve the same in lieu of the Ability Enhancement Course offered by the University, provided that the corresponding entries in the transcript of the student shall be made as per the consideration of MOOCs course opted by the students.

d) Generic Elective Course (GEC) – Optional:

Fast track learners / advanced learners shall be entitled to opt for any one of the Generic Elective Courses from the pool of Courses offered as per his / her wish and interest for obtaining in depth knowledge and additional skills. The transcript of the student shall have entries showing his / her contribution towards the Generic Elective Course and shall have earned extra credit, which shall not be considered for calculation of CGPA.

List of GEC papers offered:

- i. Hospital Management
- ii. Medical Transcription
- iii. Basics of NABL / NABH Accreditations

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- iv. Good Lab Practices / Good Clinical Lab Practices
- v. Introduction to SPSS package
- vi. Hospital Infection Control System
- vii. Biomedical Waste Management

e) Teaching Learning requirements:

- i. Log Book: Every Medical M.Sc., student shall maintain a work diary / Log Book and record his / her acquired skills, during the training period duly certified by the various Heads of Departments where he / she has undergone training including outside the Institution, participation in the training programme conducted by the department such as day to day relevant record pertaining to his / her specialty must be maintained for presentation during final examinations. The record includes – case records and specialty, journal reviews etc.
- ii. Presentation by Candidate: Special mention may be made of the presentation by the candidate as well as details of clinical or laboratory procedures, if any conducted by the candidate. The work diary shall be scrutinized and certified the Guide once in three months, Head of the department and the Dean of Santosh Medical College and presented in the University Practical / clinical examinations.
- iii. Candidates are required to participate in the teaching and training program for the Under Graduate students.
- iv. Seminar, Journal club, Group Discussion and Participation in Clinical / Clinico-pathological Conferences
- v. Presentation of short HMRC papers in Conferences and improve on it and submit them for publication in reputed Journals.

The various teaching learning activities suggested above shall be minimum requirements and mandate for the completion of the said Medical M.Sc. programme.

f) Practical / Clinical Postings:

Practical / Clinical postings have been designed in view of the students to have hands on practice in various clinical skills and handling procedures for the requisite qualifications as prescribed by the statutory council norms from time to time. A rigorous practice on the skills such as communication, clinical examination, medical procedures or prescription, exercise prescription, latest techniques, evaluation and interpretation of results so as to undertake independent work as a specialist has been made available for the students.

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g) Dissertation:

The Medical M.Sc. students shall prepare a dissertation based on the clinical or experimental work or any other study conducted by them under the supervision of a recognized Guide.

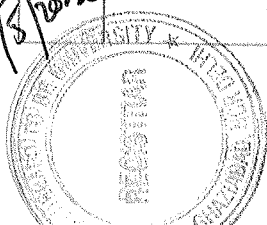
10. YEAR WISE DISTRIBUTION OF CREDITS AND HOURS:

1st Year (For Credit Hours)

SN	Components	No. of Courses	Theory Credits	Practical Credits	Hours per week
1	Discipline Specific Core Course – I (Anatomy)	1	4	4	8
2	Discipline Specific Core Course – II (Physiology)	1	4	4	8
3	Discipline Specific Core Course – III (Biochemistry)	1	4	4	8
4	Practical / Clinical Postings	-	-	-	18
Total		3	12	12	42

2nd Year (For Credit Hours)

SN	Components	No. of Courses	Theory Credits	Practical Credits	Hours per week
1	Discipline Specific Specialty Course – I	-	-	-	8
2	Discipline Specific Specialty Course – II	-	-	-	8
3	Discipline Specific Specialty Course – III	-	-	-	8
4	Teaching Learning Requirements [Continuous Internal Assessment]	-	-	-	8
5	Dissertation	-	-	-	10
6	Ability Enhancement Course (AEC) – Optional	1	2	-	2
7	Generic Elective Course (GEC) Optional	1	4	-	4
Total		2	6	-	42 + 6 optional



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3rd Year (For Credit Hours)

SN	Components	No. of Courses	Theory Credits	Practical Credits	Hours per week
1	Discipline Specific Specialty Course – I	1	6	-	6
2	Discipline Specific Specialty Course – II	1	6	-	6
3	Discipline Specific Specialty Course – III	1	6	-	6
4	Teaching Learning Requirements [Continuous Internal Assessment]	1	-	12	6
5	Practical / Clinical Postings	1	-	12	12
6	Dissertation	1	-	14	6
Total			18	38	42

11. EXAMINATIONS

11.1. Eligibility

a) Attendance: Every candidate shall secure 80 % attendance during each academic year.

b) Progress and Conduct: Every candidate shall participate in seminars, journal review meetings, symposia, conferences, case presentations, clinics and didactic lectures during each year organized by the concerned department.

c) Work diary and log book: Every candidate shall maintain a work diary and log book for recording his or her participation in the training programmes conducted by the department. The work diary and log book shall be verified and certified by the Head of the Department of the Institution. The certification of satisfactory progress is based on the work diary and log book.

11.2 University Examinations

The University Examinations shall consist of theory, practical and clinical examinations and viva-voce and Pedagogy.

a) Theory Examinations:

There shall be a theory examination in the Discipline Specific Core Course, Discipline Specific Elective Course at the end of **1st year** of course

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and 3rd year of the course as given below. The question paper shall be set and evaluated by the concerned Department / Specialty.

First Year Theory Examinations:

SN	Components	Credits	Marks
1	Discipline Specific Core Course - I (Anatomy)	4	120
2	Discipline Specific Core Course - II (Physiology)	4	120
3	Discipline Specific Core Course - III (Biochemistry)	4	120
Total		12	360

First year theory examinations shall have three components as (i) Written Examinations (ii) Continuous Internal Assessment and (iii) Oral Examinations and shall be evaluated for a sum of **120 marks in each of the courses**. A sum total of all the three components shall have to be 50 % and above for students to have declared as pass in the theory examinations for each of the courses of the First year of study. The details of the components of theory examinations are as under:

(i) Pattern of question paper for First Year Written Examinations:

The students shall be evaluated for **80 marks** for each course [**3 courses**] of three hours duration of the following pattern

Section	Pattern	Marks per question	Total Marks
A	2 Essay Questions [10M each]	10	20
B	10 Short Notes [6M each]	6	60
Total			80

(ii) Continuous Internal Assessment for First Year:

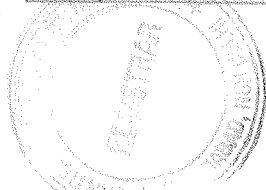
Continuous Internal Assessment for the first year shall be for **20 marks** for each of the theory courses. The Continuous Internal Assessment shall be given prior to the University Theory Examinations. A minimum of 50% of marks is required for a student to be declared pass. Students with less than 50 % of Continuous Internal Assessment shall have to take up the unsuccessful course again in the subsequent year of study.

(iii) Oral Examinations for First Year:

Oral Examinations are mandatory for each course and shall be evaluated for **20 marks**.

Third year Theory Examinations:

SN	Components	Credits	Marks
1	Discipline Specific Specialty Course - I	6	100
2	Discipline Specific Specialty Course - II	6	100



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3	Discipline Specific Specialty Course – III	6	100
	Total	18	300

Third year theory examinations shall have four components as (i) Written Examinations (ii) Continuous Internal Assessment (iii) Dissertation (iv) Oral / Viva Examinations and shall be evaluated for **550 marks**. A sum total of all the four components shall have to be 50 % and above for students to have declared as pass in the theory examinations for each of the courses of the Third year of study. The details of the components of theory examinations are as under:

(i) Pattern of question paper for Third Year Written Examinations:

The students shall be evaluated for **100 marks** for each course [**3 courses**] of three hours duration of the following pattern

Section	Pattern	Marks per question	Total Marks
A	2 Essay type Questions [20M each]	20	40
B	10 Short Notes [6M each]	6	60
	Total		100

(ii) Continuous Internal Assessment for Third Year:

Continuous Internal Assessment for the third year shall be for **150 marks**. The Continuous Internal Assessment shall be given prior to the University Theory Examinations. A minimum of 50% of marks is required for a student to be declared pass. Students with less than 50 % of Continuous Internal Assessment shall have to redo the entire third year courses again.

(iii) Dissertation:

Dissertation shall be a mandatory component for the M.Sc. Medical Degree programme and shall be evaluated for **40 marks**. Each student shall be allotted a topic of research as per the interest of the respective student guided by a mentor for undergoing the research. Every candidate appearing for the post-graduate degree examination shall, at least six months prior to the Final Year Examinations, submit four typewritten copies of dissertation undertaken by the candidate, prepared under the direction and guidance of his / her guide. The dissertation so submitted shall be referred to the external examiners for their examination, and acceptance of it shall be a condition precedent to allow the candidate to appear for the written part of the examination.

Provided further that if the dissertation is rejected by the examiner, the examiner shall assign reasons therefore with suggestions for its improvement to the candidate and such candidate shall submit his / her dissertation to the same examiner who shall accept it before appearing in the examinations.

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(iv) **Viva-Voce:**

The post-graduate students whose dissertations have been approved by the external examiners shall appear for the Viva-Voce Examinations for **60 marks**.

b) Clinical / Practical Examinations:

Clinical / Practical Examinations is designed to test the clinical skill, performance and competence of candidate in skills such as communication, clinical examination, medical / dental procedures or prescription, exercise prescription, latest techniques, evaluation and interpretation of results so as to undertake independent work as a specialist. The University provides ample opportunity for the candidate to perform in various clinical procedures.

The practical / clinical examination in all the specialties shall be conducted for the candidates. Provided that the practical / clinical examination may be extended for one more day if not required. The practical / clinical examinations shall be conducted on selection of external examiners (approved by the Vice-Chancellor from a panel of examiners) of respective discipline made from the panel of examiners suggested by the HoD.

i) First Year Practical Examinations:

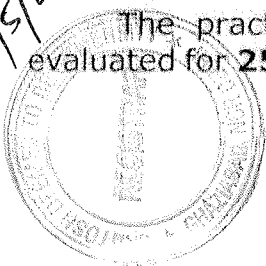
The practical / clinical examination for the **First Year** shall be evaluated for **80 marks** in each of the courses with a provision for internal marking scheme as follows:

SN	Courses	Credits	Internal	External	Total Marks
1	Discipline Specific Core Practical – I [Anatomy]	4	20	60	80
2	Discipline Specific Core Practical – II [Physiology]	4	20	60	80
3	Discipline Specific Core Practical – III [Biochemistry]	4	20	60	80
	Total	12			240

A student shall be declared to have passed the First Year Practical Examinations only when he / she has obtained 50 % and above marks in Internal component and 50 % and above in the sum total of the Internal and External component of each of the practical courses.

ii) Final Year Practical Examinations:

The practical / clinical examination for the **Final Year** shall be evaluated for **250 marks** in each of the courses with a provision for internal



marking scheme as follows:

SN	Courses	Credits	Internal	External	Total Marks
1	Practical / Clinical Postings	12	50	200	250

A student shall be declared to have passed the Final Year Practical examinations only when he / she has obtained 50 % and above marks in Internal component and 50 % and above in the sum total of the Internal and External component of the practical course.

12. EXAMINERS

12.1. Theory Examinations for Ability Enhancement Courses / Generic Elective Courses:

- i. The Ability Enhancement Course / Generic Elective Course offered by the Industrial Collaboration / MOOCs Courses, the assessment shall be done as per the evaluation standards set forth by the Partner Institution / Industry / MOOCs evaluator, and the same shall be considered valid and reliable. The Industry shall evaluate the students as per their respective norms and certify through a certificate that the students have successfully completed the respective course. The students on producing the respective course completion certificate shall be entitled for credit transfer as per the UGC.

12.2. Practical / Clinical Examinations & Dissertation & Viva-voce Examinations:

There shall be two examiners in each subject. Out of them, one shall be external examiner and one internal examiner. The external examiner shall be from other Universities / Institutions.

13. QUALIFICATION AND EXPERIENCE FOR EXAMINERS

The qualification and experience for appointment of an examination shall be as under:

- i. Shall possess qualification and experience as Professor in a Post-Graduate Degree Programme of the same subject / allied subject;
- ii. The internal examiner in a subject shall not accept external examinership in a college for the same academic year;
- iii. No person shall be appointed as an external examiner for the same institution for more than two consecutive years. However, if there is a break of one year, the person may be re-appointed.

14. MALPRACTICES

Malpractices, of any kind or degree, shall be viewed very seriously by the Institution Deemed to be University. If a candidate indulges in

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malpractice in any internal test / model examination / end semester examination, he / she shall be liable for punitive action as prescribed by the rules and regulations of the Deemed to be University.

15. EQUIVALENT GRADE POINTS

The marks obtained by the candidates shall be equated to the respective grade points as under:

Range of Marks	Explanation	Letter Grade	Grade Point (GP)
90 & above	Outstanding	O	10
80 – 89	Excellent	A++	9
70 – 79	Very Good	A+	8
60 – 69	Good	A	7
50 – 59	Average	B	6
Less than 50	Fail	F	-
Absent	Absent	AB	-

16. PASSING REQUIREMENTS

16.1. First Year Passing requirements:

A candidate shall be declared to have passed in each of the Discipline Specific Core Courses [Anatomy, Physiology and Biochemistry] if he / she has secured a Grade Point of **6 and above** on an aggregate of the respective theory and practical courses.

16.2. Third [Final] Year Passing requirements:

A candidate shall be declared to have passed in each of the Discipline Specific Specialty Courses if he / she has secured a Grade Point of **6 and above** in the theory courses.

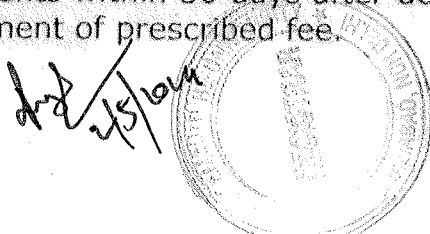
17. SUPPLEMENTARY EXAMINATION

Students, who have failed in any of the theory / practical courses in any of the years, shall apply for the supplementary examinations conducted in the subsequent Examinations after 6 months.

18. METHODS FOR REDRESSAL OF GRIEVANCES IN EVALUATION OF ANSWER SCRIPTS

Students who are not satisfied with the grades awarded shall seek redressal as follows:

- (i) Re-totaling of answer scripts shall be made available for the students within 30 days after declaration of result along with the payment of prescribed fee.



19. CLASSIFICATION OF PERFORMANCE

Classification of performance of students in the examinations pertaining to the courses in a programme shall be arrived at on the basis of numerical value of Cumulative Grade Point Average (CGPA).

19.1. Yearly Grade Point Average (YGPA)

On completion of a year, each student is assigned a Yearly Grade Point Average which is computed as below for all courses registered by the student during that semester.

$$\text{Yearly Grade Point Average (YGPA)} = \frac{\sum(C_i \times G_i)}{\sum C_i}$$

Where C_i is the credit for a course in that semester and G_i is the Grade Point earned by the student for that course. The YGPA is rounded off to two decimals.

For Example:

The credits earned by the candidate in the DSCC-I, II, III including theory and practical will be 8, 8 & 8 respectively ---- [1]

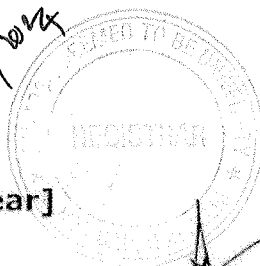
The grade point obtained by the candidate on equating the aggregate marks of theory and practical component of DSCC-I, II & III may be

6.8, 7.5 & 8.2 respectively ---- [2]

The total credits including Theory & Practical Components for DSCC-I, II & III are 8, 8, 8 credits respectively [4 theory & 4 practical] ---- [3]

Then the YGPA will be:

$$\begin{aligned} &= \frac{\text{DSCC-I [1]} \times [2]}{[3]} + \frac{\text{DSCC-II [1]} \times [2]}{[3]} + \frac{\text{DSCC-III [1]} \times [2]}{[3]} \\ &= \frac{8 \times 6.8}{8} + \frac{8 \times 7.5}{8} + \frac{8 \times 8.2}{8} \\ &= \frac{54.4 + 60 + 70.4}{24} \\ &= \frac{184.8}{24} \\ &= 7.7 \text{ ----- [YGPA for First Year]} \end{aligned}$$



19.2 Cumulative Grade Point Average (CGPA)

The overall performance of a student at any stage of the Degree programme is evaluated by the Cumulative Grade Point Average earned (CGPA) up to that point of time.

$$\text{Cumulative Grade Point Average (CGPA)} = \sum_j \left\{ \frac{\sum_i (C_{ij} \times G_{ij})}{\sum_i C_{ij}} \right\}$$

Where 'j' indicates the year number, 'i' indicates the course number in the year 'j', C the credit for a course in any year and G is the grade point earned by the student for that course. The CGPA is rounded off to two decimals.

20. CLASSIFICATION OF SUCCESSFUL CANDIDATES

Classification of successful candidates shall be made based on the CGPA of theory and practical separately in the final year as under:

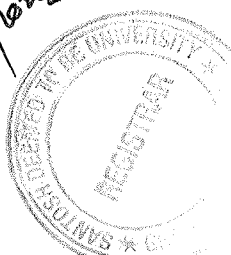
20.1 Theory Classification

- A successful candidate who secures CGPA not less than 8.50 in aggregate and passing all courses in his/ her first appearance will be declared to have passed in First class with Distinction.
- A successful candidate who secures CGPA not less than 7.0 in aggregate and passing all courses within the three years of programme duration will be declared to have passed in First Class.
- Candidates who do not fall under clause 1.19.1 (a) & (b) but have passed all the courses as per regulations with a CGPA above 6.0 shall be declared to have passed in Second Class.

20.2 Practical Classification

- A successful candidate who secures CGPA in Practicals not less than 8.50 in his/ her first appearance will be declared to have passed in First class with Distinction.
- A successful candidate who secures CGPA in Practicals not less than 7.0 will be declared to have passed in First Class.
- Candidates who do not fall under clause 1.19.2 (a) & (b) but have passed with a CGPA above 6.0 shall be declared to have passed in Second Class.

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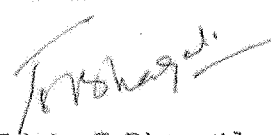
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Final Classification:

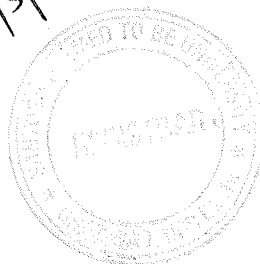
Category	CGPA [Theory]	CGPA [Practical]
First Class with Distinction	8.50 & Above	8.50 & Above
First Class	7.00 – 8.49	7.00 – 8.49
Second Class	6.00 – 6.99	6.00 – 6.99

The Meeting then came to an end with a vote of thanks to the Chair.


[Dr. V. P. Gupta]
Registrar & Member Secretary
Santosh Deemed to be University,
Ghaziabad


[Dr. Tripta S Bhagat]
Officiating Vice Chancellor
Santosh Deemed to be University,
Ghaziabad

 2/5/2024





Deemed to be University

SANTOSH

Deemed to be University

(Established u/s 3 of the UGC Act, 1956)

No.1 Santosh Nagar, Ghaziabad-201 009, NCR Delhi,

Ph. No. 0120-2743419 Fax No. 0120-2741140 Email-ID: santosh@santoshuniversity.com

MINUTES OF THE 43rd BOARD OF STUDIES HELD ON 24.07.2019 AT 12:00 Noon IN THE CONFERENCE ROOM, SANTOSH DEEMED TO BE UNIVERSITY, GHAZIABAD, NCR, DELHI.

The Chairpersons / Members of the Board of Studies who were present in the Meeting as per Attendance list is enclosed.

At the outset, the Officiating Vice Chancellor Dr. Tripta S Bhagat welcomed all newly appointed Chairpersons of the Board of Studies viz. Dr. Rashmi Sharma and Dr. Rinku Garg. The Officiating Vice Chancellor again informed that all Chairpersons of the Board of Studies should discussed and hold the meetings of the concerned members of their Committees of Board of Studies & must maintain the minutes of the meetings of the same.

The following Agenda items were taken up for discussion:

ITEM: 1

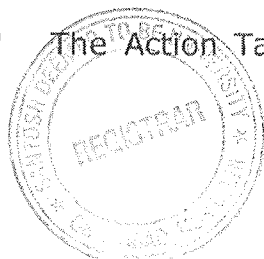
CONFIRMATION OF THE MINUTES OF 42nd MEETING OF THE BOARD OF STUDIES HELD ON 29.03.2019 AT 10.00 AM.

The Minutes of 42nd meeting of the Board of Studies held on 29.03.2019 AT 10.00 AM were circulated to all members of Board of Studies for their information and comments, if any. No comments were received; hence, the Minutes **were confirmed**.

ITEM: 2

ACTION TAKEN ON THE MINUTES OF 42nd MEETING OF THE BOARD OF STUDIES HELD ON 29.03.2019 AT 10.00 AM.

The Action Taken on the Minutes of 42nd meeting of the Board of



Studies held on 29.03.2019 at 10.00 AM were circulated to all Members of the Board of Studies for their information and comments, if any. No comments were received; hence, the Minutes **were confirmed**.

ITEM NO: 3

AS PER UGC DIRECTIONS VIDE THEIR LETTER DO. NO.F-9-1/2014(CPP-II) DATED 24.05.2019 TO INTRODUCE SECURITY FEATURES IN THE MARKS SHEETS AND CERTIFICATES ISSUED BY THE UNIVERSITY TO THE ENROLLED STUDENTS etc.

The Members of the Board of Studies noted that the directions of the University Grants Commission vide their Letter DO.NO.F-9-1/2014(CPP-II) dated 24.05.2019 which are as under:-

1. To inscribe the name and place of the institution in which a student has studied, as well as, the mode of delivery [Regular, Part-Time or Distance] of the programme.
2. To mention correctly in the academic certificates as above which are used by the students throughout their lives for various purposes and ends.
3. To implement above suggestions in the interest students to prevent malpractice.

The Members of the Board of Studies after detailed discussion **recommended / decided** as under:-

"To implement UGC directions vide letter dated 24.05.2019 viz.

1. To inscribe the name and place of the institution in which a student has studied, as well as, the mode of delivery [Regular, Part-Time or Distance] of the programme.
2. To mention correctly in the academic certificates as above which are used by the students throughout their lives for various purposes and ends.
3. To implement above suggestions in the interest students to prevent malpractice.

ITEM NO: 4

THE MEMBER EXPERT GROUP MCI VIDE THEIR LETTER DATED 12.07.2019 HAS APPROVED TIME TABLE AND COMPETENCY BASED UNDERGRADUATE CURRICULUM / SYLLABUS [MBBS] OF FIRST MBBS COURSE FOR ITS IMPLEMENTATION AND UPLOADING ON THE UNIVERSITY WEBSITE FOR THE YEAR 2019-20

The Members of the Board of Studies noted that this matter was considered by the Board of Studies in its meeting held on 29.03.2019 for implementation of competency based undergraduate curriculum / syllabus [MBBS] from August 2019, i.e. MBBS batch admitted in first year. Batches admitted and studying currently in MBBS shall continue with existing curriculum. The Board of Studies also **noted** viz.:

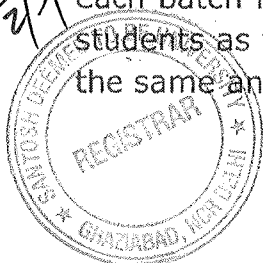
1. That a Sub Committee was constituted on 1st February 2019 consisting of all 20 Heads of the departments of Santosh Medical College & Hospital. The Curriculum Committee as constituted consisting of five members, is being trained by the MCI Regional Centre, Maulana Azad Medical College, Delhi. These five members of Curriculum Committee will train the faculty of Santosh Medical College & Hospital to ensure the implementation of the Curriculum of MBBS Course from August Session 2019 onwards.
2. The Medical Education Unit of Santosh Medical College & Hospital and above Sub Committee considered the above matter from time to time and finally same has been approved by the Member Expert Group MCI vide their letter dated 12.07.2019 Time Table and Competency Based Undergraduate Curriculum / Syllabus [MBBS] of First MBBS course for its implementation and uploading on the university website for the year 2019-20.
3. The Time Table and Competency Based Undergraduate Curriculum / Syllabus [MBBS] of First MBBS course for the year 2019-20 as approved by the Member Expert Group MCI, has been uploaded on the Santosh Deemed to be University's website : www.santosh.a.c.in on 12.07.2019 itself.

The members of the Board of Studies noted above and appreciated the efforts made by all faculty members of the Santosh Medical College & Hospital for preparing and obtaining the approval of MCI Expert Group for the same.

ITEM NO: 5

TO COMPILE TEACHING CURRICULUMS OF I MBBS, II MBBS, I BDS, II BDS, III BDS AND IV BDS FOR THE NEW SESSION OF EACH BATCH TO BE STARTING FROM 1ST AUGUST 2019.

The Members/ Chairpersons of the Board of Studies **noted** that following teaching schedules for August / September 2019 new session of each batch have been compiled and printed and will be distributed to the students as well as to the concerned department's faculty and appreciated the same and decided that the same may also be continued in future.



- | | |
|--|--------------|
| 1. I MBBS [Revised as per MCI] - | 2019 Batch |
| [Regulations and Syllabus cum Teaching Schedule] | |
| 2. II MBBS | - 2018 Batch |
| 3. I BDS | - 2019 Batch |
| 4. II BDS | - 2018 Batch |
| 5. III BDS | - 2017 Batch |
| 6. IV BDS | - 2016 Batch |

ITEM NO: 6

TO CONSIDER THE CHOICE BASED CREDIT SYSTEM FOR MASTER OF SCIENCE MEDICAL PROGRAMME OFFERED AT SANTOSH MEDICAL COLLEGE & HOSPITAL, SANTOSH DEEMED TO BE UNIVERSITY, GHAZIABAD, NCR DELHI.

The members of the Board of Studies after detailed discussion on the recommendations of the UGC CBCS regulations and the proposal of CBCS for the Medical M.Sc. Programme for implementation from the Academic Year 2019-20 onwards, **recommended and approved** the same as under:

1. PREAMBLE

The degree of Medical Master of Science (M.Sc.) in Faculty of Medicine shall be awarded to a candidate who, as per these regulations, has successfully undergone the programme, passed the prescribed Theory; Practical / Clinical Examinations and thereby qualified to receive the degree.

2. GENERAL CONSIDERATIONS AND TEACHING APPROACH

There is a definite shift from the traditional towards advancements in Medicine, Science and Technology and the increasing needs deeper analysis of microorganisms, diagnosis, disease caution, chemical combinations, biological reactions, investigation of anatomical structures etc. leading to worthwhile researches in the fields of Anatomy, Physiology, Biochemistry and Microbiology. Such specialists like all other health professionals are confronted with many ethical problems. It is therefore absolutely necessary for each and every one, dealing with health care and related fields, to prepare them to deal with a lot many problems. To accomplish this and develop human values, it is desired that all the trainees undergo ethical sensitization by lectures or discussion on ethical issues, discussion of cases with an important ethical component, and to facilitate the same, it is decided to have the Choice Based Credit System (CBCS) for the students opting the Medical M.Sc., programme of the University.

The Choice Based Credit System (CBCS) provides ample opportunity for multiple entries, large number of electives, flexible pace for earning credits, carryover of such credits, and choice of courses from other branches. Further it has the ability to accommodate diverse choices that the students may like to have as an abled Professional. In view of the above advantages it has been decided to implement the CBCS from the academic year 2020-21 onwards.



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3. THE OBJECTIVES OF CBCS

3.1. To enrich the horizon of knowledge of students by means of Discipline Specific Core Course, Discipline Specific Elective Course, Generic Elective Course and Ability Enhancement Courses.

3.2. To ensure more interaction between the teacher and taught in class room and extra class room programmes.

3.3. To offer flexibility in choosing the courses of study according to their needs and learning capacity.

3.4. To enlighten the students on the rich culture of our nation and ethical values underlying real life situations.

3.5. To allow the advanced learner to earn extra credits.

3.6. To expose the students to the world of social commitment through specially designed components more than the Curricular aspects like co-curricular and extra-curricular activities with a blend of more social responsibilities like Village adoption, Outreach programmes and other Industry interface programmes.

4. ELIGIBILITY FOR ADMISSION

4.1 All admission to Medical M.Sc. programme within the respective categories shall be based solely on the marks obtained in the qualifying examinations at the Undergraduate level in various specializations from a recognized University.

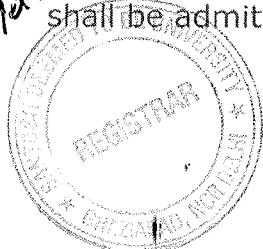
4.2 In order to be eligible for the Medical M.Sc. programme, a student must obtain a minimum of 50 % aggregate marks in Bachelor of Medical Lab Technology / B.Sc. Degree Examinations with Physics, Chemistry, Botany or Zoology in the main subjects.

4.3 The candidates who possess degree of BDS / BMLT / BOT / BPT / BMM / B.Sc. Degree with Physics, Chemistry, Botany or Zoology with 50 % Aggregate Marks as the main subjects, are eligible to apply.

4.4 There is no upper age limit for the students applying for the Medical M.Sc. programme

5. CUT OFF DATE

Candidates selected for admission to the Medical M.Sc. programme shall be admitted up to 30th September of the said academic year.



6. MEDIUM OF INSTRUCTION

English shall be the medium of instruction for all the courses of the Medical M.Sc. programme.

7. DURATION OF THE PROGRAMME

The period for the award of Medical M.Sc. degree shall be of three years duration for three academic years as full time candidate in the Institution including the period of examinations. The maximum period for completion of Medical M.Sc. Programme shall be six years from the date of admission to the said course, failing which the candidate must rejoin afresh

8. MIGRATION

Under no circumstances, the migration or the transfer of students undergoing post-graduate Medical Degree shall be permitted by the University or the authority. No inter-change of the specialty in the same institution or in any other institution shall be permitted after the commencement of session.

9. PROGRAM STRUCTURE

9.1. Curriculum

- The curriculum and the syllabus for the course pertaining to the M.Sc. Medical PG Programme are given separately as per their specialization.
- The curriculum and the syllabus for the course shall be prescribed by the Academic Council based on the recommendations of concerned Board of Faculty and Board of Studies and duly approved by the Board of Management of the Institution Deemed to be University.

9.2. Components of Curriculum

There shall be six components for Medical M.Sc. curriculum extended throughout the entire period of study as follows:

SN	Components	No. of Courses	Theory Credits	Practical Credits	Total Credits
	Discipline Specific Core Courses (Anatomy, Physiology, Biochemistry)	3T + 3P	12	12	24
2	Discipline Specific Specialty Courses viz. Anatomy, Physiology, Biochemistry &	3T	18	-	18

	Microbiology				
3	Ability Enhancement Course (Optional)	1	2	-	2
4	Generic Elective Course (Optional)	1	4	-	4
5	Teaching Learning Requirements [Continuous Internal Assessment]	1	-	12	12
6	Practical / Clinical Postings	1	-	12	12
7	Dissertation & Viva-voce	1	-	14	14
Total		12 + 2	30 + 6	50	80 + 6 (optional)

a) Discipline Specific Core Courses (DSCC – as per (1) above):

The compulsory courses irrespective of the various specializations as per the Medical post-graduate programme form the Discipline Specific Core Courses of the said PG programme and it is mandatory for the students to compulsorily take up the said courses and its credits in order to complete the programme.

b) Discipline Specific Specialty Courses (DSSC – as per (2) above)

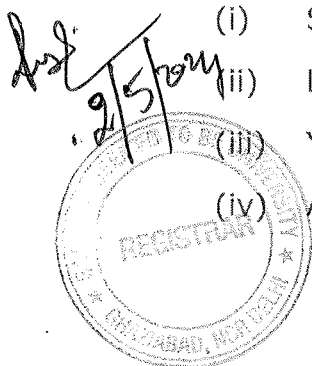
The Discipline Specific Specialty Courses are offered as per the various specializations opted as per the candidature and application for which the candidate is being admitted. The DSSC is offered as a combo of 3 papers which shall be examined at the end of the third year from the date of admission to the programme, however the candidate shall opt the programme of specialization at the beginning of the second year itself.

c) Ability Enhancement Courses (AEC) - Optional:

The Ability Enhancement Course has been designed with focus on competency / employability / skill development offered either on collaboration with partner Institutions / Industries, the said recognized MOOCs programme offered by any other Universities from time to time. The Ability Enhancement Course opted by the candidate shall not be considered for the calculation of CGPA and final classification of results as the nature of the course is being offered as non-CGPA course.

AEC offered by the Partner Institution / SWAYAM - MOOCs

- (i) Soft skill development
- (ii) Language and Communication Skill development
- (iii) Yoga and Wellness
- (iv) Analytical Skill development



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- (v) Human value development
- (vi) Personality / Professional Development
- (vii) Employability Skills development

If a student wishes to opt for a MOOCs course, an appropriate **Three Member Committee** shall be formed by the Institution Deemed to be University headed by the Vice-Chancellor. The committee shall, on careful examination of the reliability and validity, including the examination patterns of the said MOOCs course, recommend the student for the entitlement of Credit transfer on production of the course completion / pass certificate / grade sheet indicating pass and duly approve the same in lieu of the Ability Enhancement Course offered by the University, provided that the corresponding entries in the transcript of the student shall be made as per the consideration of MOOCs course opted by the students.

d) Generic Elective Course (GEC) – Optional:

Fast track learners / advanced learners shall be entitled to opt for any one of the Generic Elective Courses from the pool of Courses offered as per his / her wish and interest for obtaining in depth knowledge and additional skills. The transcript of the student shall have entries showing his / her contribution towards the Generic Elective Course and shall have earned extra credit, which shall not be considered for calculation of CGPA.

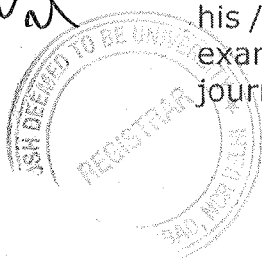
List of GEC papers offered:

- i. Hospital Management
- ii. Medical Transcription
- iii. Basics of NABL / NABH Accreditations
- iv. Good Lab Practices / Good Clinical Lab Practices
- v. Introduction to SPSS package
- vi. Hospital Infection Control System
- vii. Biomedical Waste Management

e) Teaching Learning requirements:

- i. Log Book: Every Medical M.Sc., student shall maintain a work diary / Log Book and record his / her acquired skills, during the training period duly certified by the various Heads of Departments where he / she has undergone training including outside the Institution, participation in the training programme conducted by the department such as day to day relevant record pertaining to his / her specialty must be maintained for presentation during final examinations. The record includes – case records and specialty, journal reviews etc.

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- ii. Presentation by Candidate: Special mention may be made of the presentation by the candidate as well as details of clinical or laboratory procedures, if any conducted by the candidate. The work diary shall be scrutinized and certified the Guide once in three months, Head of the department and the Dean of Santosh Medical College and presented in the University Practical / clinical examinations.
- iii. Candidates are required to participate in the teaching and training program for the Under Graduate students.
- iv. Seminar, Journal club, Group Discussion and Participation in Clinical / Clinico-pathological Conferences
- v. Presentation of short HMRC papers in Conferences and improve on it and submit them for publication in reputed Journals.

The various teaching learning activities suggested above shall be minimum requirements and mandate for the completion of the said Medical M.Sc. programme.

f) Practical / Clinical Postings:

Practical / Clinical postings have been designed in view of the students to have hands on practice in various clinical skills and handling procedures for the requisite qualifications as prescribed by the statutory council norms from time to time. A rigorous practice on the skills such as communication, clinical examination, medical procedures or prescription, exercise prescription, latest techniques, evaluation and interpretation of results so as to undertake independent work as a specialist has been made available for the students.

g) Dissertation:

The Medical M.Sc. students shall prepare a dissertation based on the clinical or experimental work or any other study conducted by them under the supervision of a recognized Guide.

10. YEAR WISE DISTRIBUTION OF CREDITS AND HOURS:

1st Year (For Credit Hours)

SN	Components	No. of Courses	Theory Credits	Practical Credits	Hours per week
1	Discipline Specific Core Course – I (Anatomy)	1	4	4	8
2	Discipline Specific Core	1	4	4	8

	Course – II (Physiology)				
3	Discipline Specific Core Course – III (Biochemistry)	1	4	4	8
4	Practical / Clinical Postings	-	-	-	18
	Total	3	12	12	42

2nd Year (For Credit Hours)

SN	Components	No. of Courses	Theory Credits	Practical Credits	Hours per week
1	Discipline Specific Specialty Course – I	-	-	-	8
2	Discipline Specific Specialty Course – II	-	-	-	8
3	Discipline Specific Specialty Course – III	-	-	-	8
4	Teaching Learning Requirements [Continuous Internal Assessment]	-	-	-	8
5	Dissertation	-	-	-	10
6	Ability Enhancement Course (AEC) – Optional	1	2	-	2
7	Generic Elective Course (GEC) Optional	1	4	-	4
	Total	2	6	-	42 + 6 optional

3rd Year (For Credit Hours)

SN	Components	No. of Courses	Theory Credits	Practical Credits	Hours per week
1	Discipline Specific Specialty Course – I	1	6	-	6
2	Discipline Specific Specialty Course – II	1	6	-	6
3	Discipline Specific Specialty Course – III	1	6	-	6
4	Teaching Learning Requirements [Continuous Internal Assessment]	1	-	12	6
5	Practical / Clinical Postings	1	-	12	12
6	Dissertation	1	-	14	6

	Total	18	38	42
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11. EXAMINATIONS

11.1. Eligibility

a) Attendance: Every candidate shall secure 80 % attendance during each academic year.

b) Progress and Conduct: Every candidate shall participate in seminars, journal review meetings, symposia, conferences, case presentations, clinics and didactic lectures during each year organized by the concerned department.

c) Work diary and log book: Every candidate shall maintain a work diary and log book for recording his or her participation in the training programmes conducted by the department. The work diary and log book shall be verified and certified by the Head of the Department of the Institution. The certification of satisfactory progress is based on the work diary and log book.

11.2 University Examinations

The University Examinations shall consist of theory, practical and clinical examinations and viva-voce and Pedagogy.

a) Theory Examinations:

There shall be a theory examination in the Discipline Specific Core Course, Discipline Specific Elective Course at the end of **1st year** of course and **3rd year** of the course as given below. The question paper shall be set and evaluated by the concerned Department / Specialty.

First Year Theory Examinations:

SN	Components	Credits	Marks
1	Discipline Specific Core Course – I (Anatomy)	4	120
2	Discipline Specific Core Course – II (Physiology)	4	120
3	Discipline Specific Core Course – III (Biochemistry)	4	120
Total		12	360

First year theory examinations shall have three components as (i) Written Examinations (ii) Continuous Internal Assessment and (iii) Oral Examinations and shall be evaluated for a sum of **120 marks in each of the courses**. A sum total of all the three components shall have to be 50 % and above for students to have declared as pass in the theory examinations for each of the courses of the First year of study. The details of the components of theory examinations are as under:

(i) **Pattern of question paper for First Year Written Examinations:**

The students shall be evaluated for **80 marks** for each course [3 courses] of three hours duration of the following pattern

Section	Pattern	Marks per question	Total Marks
A	2 Essay Questions [10M each]	10	20
B	10 Short Notes [6M each]	6	60
Total			80

(ii) **Continuous Internal Assessment for First Year:**

Continuous Internal Assessment for the first year shall be for **20 marks** for each of the theory courses. The Continuous Internal Assessment shall be given prior to the University Theory Examinations. A minimum of 50% of marks is required for a student to be declared pass. Students with less than 50 % of Continuous Internal Assessment shall have to take up the unsuccessful course again in the subsequent year of study.

(iii) **Oral Examinations for First Year:**

Oral Examinations are mandatory for each course and shall be evaluated for **20 marks**.

Third year Theory Examinations:

SN	Components	Credits	Marks
1	Discipline Specific Specialty Course – I	6	100
2	Discipline Specific Specialty Course – II	6	100
3	Discipline Specific Specialty Course – III	6	100
Total		18	300

Third year theory examinations shall have four components as (i) Written Examinations (ii) Continuous Internal Assessment (iii) Dissertation (iv) Oral / Viva Examinations and shall be evaluated for **550 marks**. A sum total of all the four components shall have to be 50 % and above for students to have declared as pass in the theory examinations for each of the courses of the Third year of study. The details of the components of theory examinations are as under:

(i) **Pattern of question paper for Third Year Written Examinations:**

The students shall be evaluated for **100 marks** for each course [3 courses] of three hours duration of the following pattern

Section	Pattern	Marks per question	Total Marks
A	2 Essay type Questions [20M each]	20	40
B	10 Short Notes [6M each]	6	60
Total			100

(ii) **Continuous Internal Assessment for Third Year:**

Continuous Internal Assessment for the third year shall be for **150 marks**. The Continuous Internal Assessment shall be given prior to the University Theory Examinations. A minimum of 50% of marks is required for a student to be declared pass. Students with less than 50 % of Continuous Internal Assessment shall have to redo the entire third year courses again.

(iii) Dissertation:

Dissertation shall be a mandatory component for the M.Sc. Medical Degree programme and shall be evaluated for **40 marks**. Each student shall be allotted a topic of research as per the interest of the respective student guided by a mentor for undergoing the research. Every candidate appearing for the post-graduate degree examination shall, at least six months prior to the Final Year Examinations, submit four typewritten copies of dissertation undertaken by the candidate, prepared under the direction and guidance of his / her guide. The dissertation so submitted shall be referred to the external examiners for their examination, and acceptance of it shall be a condition precedent to allow the candidate to appear for the written part of the examination.

Provided further that if the dissertation is rejected by the examiner, the examiner shall assign reasons therefore with suggestions for its improvement to the candidate and such candidate shall submit his / her dissertation to the same examiner who shall accept it before appearing in the examinations.

(iv) Viva-Voce:

The post-graduate students whose dissertations have been approved by the external examiners shall appear for the Viva-Voce Examinations for **60 marks**.

b) Clinical / Practical Examinations:

Clinical / Practical Examinations is designed to test the clinical skill, performance and competence of candidate in skills such as communication, clinical examination, medical / dental procedures or prescription, exercise prescription, latest techniques, evaluation and interpretation of results so as to undertake independent work as a specialist. The University provides ample opportunity for the candidate to perform in various clinical procedures.

The practical / clinical examination in all the specialties shall be conducted for the candidates. Provided that the practical / clinical examination may be extended for one more day if not required. The practical / clinical examinations shall be conducted on selection of external examiners (approved by the Vice-Chancellor from a panel of examiners) of respective discipline made from the panel of examiners suggested by the HoD.



i) First Year Practical Examinations:

The practical / clinical examination for the **First Year** shall be evaluated for **80 marks** in each of the courses with a provision for internal marking scheme as follows:

SN	Courses	Credits	Internal	External	Total Marks
1	Discipline Specific Core Practical – I [Anatomy]	4	20	60	80
2	Discipline Specific Core Practical – II [Physiology]	4	20	60	80
3	Discipline Specific Core Practical – III [Biochemistry]	4	20	60	80
Total		12			240

A student shall be declared to have passed the First Year Practical Examinations only when he / she has obtained 50 % and above marks in Internal component and 50 % and above in the sum total of the Internal and External component of each of the practical courses.

ii) Final Year Practical Examinations:

The practical / clinical examination for the **Final Year** shall be evaluated for **250 marks** in each of the courses with a provision for internal marking scheme as follows:

SN	Courses	Credits	Internal	External	Total Marks
1	Practical / Clinical Postings	12	50	200	250

A student shall be declared to have passed the Final Year Practical examinations only when he / she has obtained 50 % and above marks in Internal component and 50 % and above in the sum total of the Internal and External component of the practical course.

12. EXAMINERS

12.1. Theory Examinations for Ability Enhancement Courses / Generic Elective Courses:

- The Ability Enhancement Course / Generic Elective Course offered by the Industrial Collaboration / MOOCs Courses, the assessment shall be done as per the evaluation standards set forth by the Partner Institution / Industry / MOOCs evaluator, and the same shall be considered valid and reliable. The Industry shall evaluate the students as per their respective norms and certify through a certificate that the students have successfully completed the respective course. The students on producing the respective course completion certificate shall be entitled for credit transfer as per the UGC.

12.2. Practical / Clinical Examinations & Dissertation & Viva-voce Examinations:

There shall be two examiners in each subject. Out of them, one shall be external examiner and one internal examiner. The external examiner shall be from other Universities / Institutions.

13. QUALIFICATION AND EXPERIENCE FOR EXAMINERS

The qualification and experience for appointment of an examination shall be as under:

- i. Shall possess qualification and experience as Professor in a Post-Graduate Degree Programme of the same subject / allied subject;
- ii. The internal examiner in a subject shall not accept external examinership in a college for the same academic year;
- iii. No person shall be appointed as an external examiner for the same institution for more than two consecutive years. However, if there is a break of one year, the person may be re-appointed.

14. MALPRACTICES

Malpractices, of any kind or degree, shall be viewed very seriously by the Institution Deemed to be University. If a candidate indulges in malpractice in any internal test / model examination / end semester examination, he / she shall be liable for punitive action as prescribed by the rules and regulations of the Deemed to be University.

15. EQUIVALENT GRADE POINTS

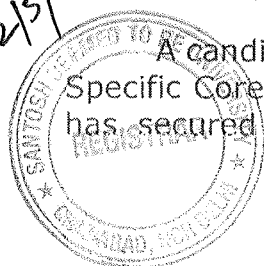
The marks obtained by the candidates shall be equated to the respective grade points as under:

Range of Marks	Explanation	Letter Grade	Grade Point (GP)
90 & above	Outstanding	O	10
80 – 89	Excellent	A++	9
70 – 79	Very Good	A+	8
60 – 69	Good	A	7
50 – 59	Average	B	6
Less than 50	Fail	F	-
Absent	Absent	AB	-

16. PASSING REQUIREMENTS

16.1. First Year Passing requirements:

A candidate shall be declared to have passed in each of the Discipline Specific Core Courses [Anatomy, Physiology and Biochemistry] if he / she has secured a Grade Point of **6 and above** on an aggregate of the



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respective theory and practical courses.

16.2. Third [Final] Year Passing requirements:

A candidate shall be declared to have passed in each of the Discipline Specific Specialty Courses if he / she has secured a Grade Point of **6 and above** in the theory courses.

17. SUPPLEMENTARY EXAMINATION

Students, who have failed in any of the theory / practical courses in any of the years, shall apply for the supplementary examinations conducted in the subsequent Examinations after 6 months.

18. METHODS FOR REDRESSAL OF GRIEVANCES IN EVALUATION OF ANSWER SCRIPTS

Students who are not satisfied with the grades awarded shall seek redressal as follows:

- (i) Re-totaling of answer scripts shall be made available for the students within 30 days after declaration of result along with the payment of prescribed fee.

19. CLASSIFICATION OF PERFORMANCE

Classification of performance of students in the examinations pertaining to the courses in a programme shall be arrived at on the basis of numerical value of Cumulative Grade Point Average (CGPA).

19.1. Yearly Grade Point Average (YGPA)

On completion of a year, each student is assigned a Yearly Grade Point Average which is computed as below for all courses registered by the student during that semester.

$$\text{Yearly Grade Point Average (YGPA)} = \frac{\sum(C_i \times G_i)}{\sum C_i}$$

Where C_i is the credit for a course in that semester and G_i is the Grade Point earned by the student for that course. The YGPA is rounded off to two decimals.

For Example:

The credits earned by the candidate in the DSCC-I, II, III including theory and practical will be 8, 8 & 8 respectively ---- [1]

The grade point obtained by the candidate on equating the aggregate marks of theory and practical component of DSCC-I, II & III may be

6.8, 7.5 & 8.2 respectively

---- [2]

The total credits including Theory & Practical Components for DSCC-I, II & III are 8, 8, 8 credits respectively [4 theory & 4 practical] ---- [3]

Then the YGPA will be:

$$\begin{aligned}
 &= \frac{\text{DSCC-I [1]} \times [2]}{[3]} + \frac{\text{DSCC-II [1]} \times [2]}{[3]} + \frac{\text{DSCC-III [1]} \times [2]}{[3]} \\
 &= \frac{8 \times 6.8}{8} + \frac{8 \times 7.5}{8} + \frac{8 \times 8.2}{8} \\
 &= \frac{54.4 + 60 + 70.4}{24} \\
 &= \frac{184.8}{24} \\
 &= 7.7 \quad \text{----- [YGPA for First Year]}
 \end{aligned}$$

19.2 Cumulative Grade Point Average (CGPA)

The overall performance of a student at any stage of the Degree programme is evaluated by the Cumulative Grade Point Average earned (CGPA) up to that point of time.

$$\text{Cumulative Grade Point Average (CGPA)} = \sum_j \left\{ \frac{\sum_i (C_{ij} * G_{ij})}{\sum_i C_{ij}} \right\}$$

Where 'j' indicates the year number, 'i' indicates the course number in the year 'j', C the credit for a course in any year and G is the grade point earned by the student for that course. The CGPA is rounded off to two decimals.

20. CLASSIFICATION OF SUCCESSFUL CANDIDATES

Classification of successful candidates shall be made based on the CGPA of theory and practical separately in the final year as under:

20.1 Theory Classification

a) A successful candidate who secures CGPA not less than 8.50 in aggregate and passing all courses in his/ her first appearance will be declared to have passed in First class with Distinction.

b) A successful candidate who secures CGPA not less than 7.0 in aggregate and passing all courses within the three years of

programme duration will be declared to have passed in First Class.

- c) Candidates who do not fall under clause 1.19.1 (a) & (b) but have passed all the courses as per regulations with a CGPA above 6.0 shall be declared to have passed in Second Class.


20.2 Practical Classification

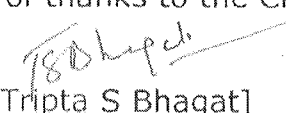
- a) A successful candidate who secures CGPA in Practicals not less than 8.50 in his/ her first appearance will be declared to have passed in First class with Distinction.
- b) A successful candidate who secures CGPA in Practicals not less than 7.0 will be declared to have passed in First Class.
- c) Candidates who do not fall under clause 1.19.2 (a) & (b) but have passed with a CGPA above 6.0 shall be declared to have passed in Second Class.

Final Classification:

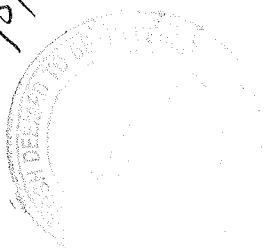
Category	CGPA [Theory]	CGPA [Practical]
First Class with Distinction	8.50 & Above	8.50 & Above
First Class	7.00 – 8.49	7.00 – 8.49
Second Class	6.00 – 6.99	6.00 – 6.99

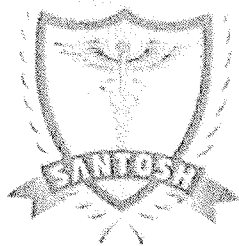
The Meeting then came to an end with a vote of thanks to the Chair.


[Dr. V. P. Gupta]
Registrar & Member Secretary
Santosh Deemed to be University,
Ghaziabad


[Dr. Tripta S Bhagat]
Officiating Vice Chancellor
Santosh Deemed to be University,
Ghaziabad


2/5/2024





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**MINUTES OF THE 39th ACADEMIC COUNCIL HELD ON 07.08.2020
AT 3:00 IN THE MAHARAJA HALL, SANTOSH MEDICAL COLLEGE,
GHAZIABAD, NCR DELHI.**

The Members of the Academic Council who were present in the Meeting the Attendance list is attached in this regard.

At the outset, the Vice Chancellor Dr. Tripta S Bhagat, welcomed all the members of the Academic Council.

The following Agenda Items were taken up for discussion:

Item: 1

**CONFIRMATION OF THE MINUTES OF 38th MEETING OF THE
ACADEMIC COUNCIL HELD ON 26.06.2020 AT 03.00 PM.**

The Minutes of 38th meeting of the Academic Council held on 26.06.2020 at 3.00 PM were circulated to all members of Academic Council for their information and comments, if any. No comments were received; hence, the Minutes **were confirmed**.

Item: 2

**ACTION TAKEN ON THE MINUTES OF 38th MEETING OF THE
ACADEMIC COUNCIL HELD ON 26.06.2020 AT 03.00 PM.**

The Action Taken on the Minutes of 38th meeting of the Academic Council held on 26.06.2020 at 3.00 PM **were noted** by the Members of the Academic Council.

ITEM: 3

**TO CONSIDER THE MINUTES/ RECOMMENDATIONS OF THE
47th MEETING OF THE BOARD OF STUDIES HELD ON
05.08.2020 AT 3:00 PM.**

The Members of the Academic Council considered in detail the **recommendations / minutes** along with **AGENDA** of the Board of Studies held on 07.08.2020 at 3.00 PM and **approved** as under as :-



Examination Pattern: Pre + Post MCQ = 20 Marks with each module of theory and clinical Examination

Final MCQ Examination: Theory = 100 Marks
Practical = 100 Marks

Note:

Certificate will be issued by the Santosh Deemed to be University after successful completion of course and obtaining 50% marks in each Module, Mock test & Final Examination.

8. Course Syllabus

- Basic Elderly Health
- Clinical Elderly Care
- Basic Elderly Health (Practical)
- Clinical Elderly Care (Practical)"

R. TO CONSIDER THE REVISION OF CHOICE BASED CREDIT SYSTEM [CBCS] CURRICULUM FOR AWARD OF PH.D DEGREE.

The members of the Academic Council after consideration the **minutes/recommendations** of the **Board of Studies for Revision of Choice Based Credit System [CBCS] Curriculum for Award of Ph.D Degree and approved** the same as under:

(A). "Ph.D. Course-Work [1st Year]

The candidates registered for Ph. D degree are required to complete Ph.D. course-Work consisting of following three papers at the end of first year of registration. Paper I and Paper II are **compulsory papers** and candidate can select any one, from the pool of elective papers offered.

1) Paper I : Research Methodology, Biostatistics and Computer Basics

(8 Credits & 60 hours)

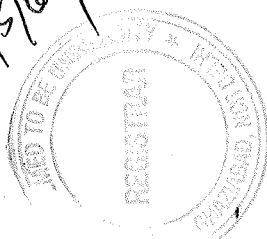
2) Paper II : Advanced Specialization in the subject area

(8 Credits & 60 hours)

3) Paper III : Elective Paper (4 credits & 60 hours)

Pool of Elective papers are as under:

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1	Hospital Waste Disposal Management
2	Stem Cells And Regenerative medicine
3	Emergency Management and Evaluation of Patients
4	Molecular Diagnostics & Genetic Techniques
5	Pharmaceutical Sciences and Pharmacovigilance
6	Inflammation and inflammatory diseases
7	Neurodegenerative disorders
8	Biomaterials /Growth factors & Regenerative dentistry

(B) DISTRIBUTION OF HOURS / CREDITS

PAPER	TOPIC	HOURS	MARKS	CREDITS
Paper-I	Research Methodology, Biostatistics and Computer Basics	60	100	8
Paper-II	Advanced Specialization in the subject area	60	100	8
Paper -III	Choose any one of the Elective	60	100	4
Other mandatory credits to be earned [II & III Year]				
Dissertation/Thesis			200	8
Two Publications in indexed journal(preferably scopus/web of science/pubmed/UGC Care list with impact factor (preferably JCR)	Mandatory for submission of thesis	Hard copies to be submitted		1
Two Research paper presentation(poster and One oral presentation in National/international conference/seminar and workshops attended/field work	Prior to the submission of the dissertation/thesis	Certificates to be attached		1
Participation in Departmental research activities/teaching	As per dept schedule (mandatory to participate)			2

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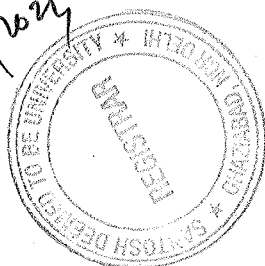
As per log book record				
Optional Credits:				
Research Funding For Advanced Learners: Awarded by National/International bodies	Govt/N on - Govt Source s	Certificates to be attached: a) Award sanction letter b) Evidence of fund received & utilization certificate c) Statement of expenditure d) Report		3
TOTAL			500	35

Paper II : The details of Advanced Specialization in the subject area are as under:-

Research scholar is required to do a course in Recent Advances in his/her research area under the concerned supervisor, the syllabus for the same will be provided by concerned Department.

1. **Advances In Anatomy**
2. **Advances In Physiology**
3. **Advances in Biochemistry**
4. **Advances In Microbiology**
5. **Advances in Pharmacology**
6. **Topics in Community Medicine**
7. **Reproductive Endocrinology and Infertility**
8. **Advances in Clinical Psychology**
9. **Pulmonary Medicine**
10. **Advances in Rehabilitation Medicine**
11. **Advances in Hematology**
12. **Advances in Maxillofacial Surgery**
13. **Advances in Orthodontics**
14. **Advances in Pedodontics**
15. **Advances in Prosthodontics**
16. **Integrated Implantology**

for
2/5/2024



for

(C) Scheme of Examination and Passing:

- a. Assessment of the course work will be through **written examination** for 3 hours duration for each of the course paper. All theory examinations will be held at the end of 1st year and will be conducted by the University as per the norms from time to time.
- b. **Each** theory paper will be evaluated for **100 marks**.
- c. **Each** theory paper will consist of six questions of **25 marks** each and students are expected to answer any four questions out of six questions.

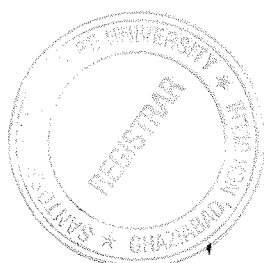
(D) Standard Point Scale for grading:

- a. Achievements shall be equated to equivalent grade points. A Ph.D. scholar has to obtain a minimum of 55% of marks or its equivalent grade in the 7-point scale in each of the course work in order to be eligible to continue in the program and submit the Dissertation / Thesis.

Grade	Marks	Grade Points
O	95 - 100	10
A	90 - 94.99	9
B	80 - 89.99	8
C	70 - 79.99	7
D	60 - 69.99	6
E	55 - 59.99	5
F	Less than 55	Fail

- b. If a student fails to clear the course work examination or remains absent, he /she should appear for the same next year along with the next batch. No separate exam will be conducted for the same.

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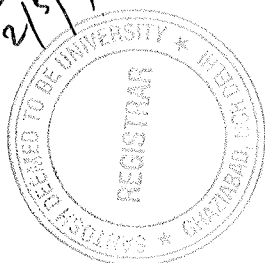
(E) COURSE COMPLETION:

A Ph.D. scholar has to obtain minimum of 32 credits and maximum of 35 credits to have the Ph.D. degree awarded by Santosh deemed to be University.

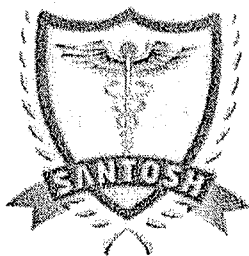
Note:-

- a. Marks for **Paper-I** will be awarded by the respective Assessor/s as indicated under the heading of **Research Methodology, Biostatistics and Computer Basics** and recorded in the log book duly signed by Guide/HOD. The Result is to be sent through **RAC Coordinator** to the University.
- b. Marks for **Paper-II** will be awarded by the concerned Department Assessor/s as indicated under the heading of **Advanced Specialization in the subject area** and recorded in the log book duly signed by Guide/HOD. The Result is to be sent through **RAC Coordinator** to the University.
- c. Marks for **Paper-III** will be awarded by the concerned Department Assessor/s as indicated under the heading of **Elective Paper** and recorded in the log book duly signed by Guide/HOD. The Result is to be sent through **RAC Coordinator** to the University.

(F) That **Course Completion Certificate and Mark Sheet** is to be provided to the Ph.D. students after declaration of result and also issue of the Provisional Certificate as under:-



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(Established u/s 3 of the UGC Act, 1956)

PH.D. COURSE WORK CERTIFICATE

This is to certify that Dr. _____, S/o.
_____ bearing Registration No. _____,
Batch _____ was declared successful Ph.D. in
_____ by the Santosh Deemed to be
University, Ghaziabad, NCR Delhi, vide Notification
No. _____ dated _____.

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Dated : _____

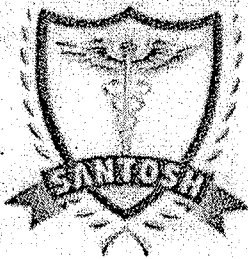
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Verified By : _____

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12/5/2024



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MINUTES OF THE 47th BOARD OF STUDIES HELD ON 05.08.2020 AT 3.00 PM IN THE CONFERENCE ROOM, SANTOSH DEEMED TO BE UNIVERSITY, GHAZIABAD, NCR, DELHI.

The Chairpersons / Members of the Board of Studies who were present in the meeting as per Attendance list is enclosed.

At the outset, the Vice Chancellor Dr. Tripta S Bhagat welcomed all Chairpersons of the Board of Studies. The Vice Chancellor again informed that all Chairpersons of the Board of Studies should discussed and hold the meetings of the concerned members of their Committees of Board of Studies & must maintain the minutes of the meetings of the same.

The following Agenda items were taken up for discussion:

ITEM: 1

CONFIRMATION OF THE MINUTES OF 46th MEETING OF THE BOARD OF STUDIES HELD ON 23.06.2020 AT 3.00 PM.

The Minutes of 46th meeting of the Board of Studies held on 23.06.2020 AT 3.00 PM were circulated to all members of Board of Studies for their information and comments, if any. No comments were received; hence, the Minutes **were confirmed**.

ITEM: 2

ACTION TAKEN ON THE MINUTES OF 46th MEETING OF THE BOARD OF STUDIES HELD ON 23.06.2020 AT 3.00 PM.

The Action Taken on the Minutes of 45th meeting of the Board of Studies held on 23.06.2020 at 3.00 PM were **noted** by the Members of the Board of Studies.

ITEM NO: 3

SUBJECT:

TO CONSIDER FRAMING OF GUIDELINES FOR INTELLECTUAL PROPERTY RIGHTS [IPR] POLICY - SANTOSH DEEMED TO BE UNIVERSITY.

ITEM NO: 20

**SUBJECT: TO CONSIDER THE REVISION OF CHOICE
BASED CREDIT SYSTEM [CBCS] CURRICULUM
FOR AWARD OF PH.D DEGREE.**

The members of the Board of Studies considered the proposal for **Revision of Choice Based Credit System [CBCS] Curriculum for Award of Ph.D Degree** and recommended/approved as under: -

(A). Ph.D. Course-Work [1st Year]

The candidates registered for Ph. D degree are required to complete Ph.D. course-Work consisting of following three papers at the end of first year of registration. Paper I and Paper II are **compulsory papers** and candidate can select any one, from the pool of elective papers offered.

1) Paper I : Research Methodology, Biostatistics and Computer Basics

(8 Credits & 60 hours)

2) Paper II : Advanced Specialization in the subject area

(8 Credits & 60 hours)

3) Paper III : Elective Paper (4 credits & 60 hours)

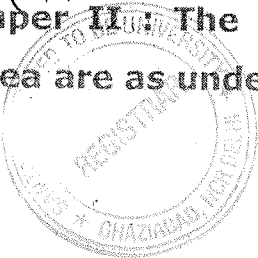
Pool of Elective papers are as under:

1	Hospital Waste Disposal Management
2	Stem Cells And Regenerative medicine
3	Emergency Management and Evaluation of Patients
4	Molecular Diagnostics & Genetic Techniques
5	Pharmaceutical Sciences and Pharmacovigilance
6	Inflammation and inflammatory diseases
7	Neurodegenerative disorders
8	Biomaterials /Growth factors & Regenerative dentistry

(B) DISTRIBUTION OF HOURS / CREDITS

PAPER	TOPIC	HOURS	MARKS	CREDITS
Paper-I	Research Methodology, Biostatistics and Computer Basics	60	100	8
Paper-II	Advanced Specialization in the subject area	60	100	8
Paper -III	Choose any one of the Elective	60	100	4
Other mandatory credits to be earned [II & III Year]				
Dissertation/Thesis			200	8
Two Publications in indexed journal(preferably scopus/web of science/pubmed/UGC Care list with impact factor (preferably JCR)	Mandatory for submission of thesis	Hard copies to be submitted		1
Two Research paper presentation(poster and One oral presentation in National/international conference/seminar and workshops attended/field work	Prior to the submission of the dissertation/thesis	Certificates to be attached		1
Participation in Departmental research activities/teaching As per log book record	As per dept schedule (mandatory to participate)			2
Optional Credits:				
Research Funding For Advanced Learners: Awarded by National/International bodies	Govt/N on - Govt Sources	Certificates to be attached: a) Award sanction letter b) Evidence of fund received & utilization certificate c) Statement of expenditure d) Report		3
TOTAL			500	35

Paper II : The details of Advanced Specialization in the subject area are as under:-



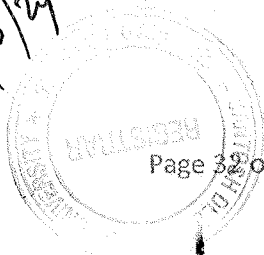
Research scholar is required to do a course in Recent Advances in his/her research area under the concerned supervisor, the syllabus for the same will be provided by concerned Department.

1. **Advances In Anatomy**
2. **Advances In Physiology**
3. **Advances in Biochemistry**
4. **Advances In Microbiology**
5. **Advances in Pharmacology**
6. **Topics in Community Medicine**
7. **Reproductive Endocrinology and Infertility**
8. **Advances in Clinical Psychology**
9. **Pulmonary Medicine**
10. **Advances in Rehabilitation Medicine**
11. **Advances in Hematology**
12. **Advances in Maxillofacial Surgery**
13. **Advances in Orthodontics**
14. **Advances in Pedodontics**
15. **Advances in Prosthodontics**
16. **Integrated Implantology**

(C) Scheme of Examination and Passing:

- a. Assessment of the course work will be through **written examination** for 3 hours duration for each of the course paper. All theory examinations will be held at the end of 1st year and will be conducted by the University as per the norms from time to time.
- b. **Each** theory paper will be evaluated for **100 marks**.
- c. **Each** theory paper will consist of six questions of **25 marks** each and students are expected to answer any four questions out of six questions.

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(D) Standard Point Scale for grading:

- a. Achievements shall be equated to equivalent grade points. A Ph.D. scholar has to obtain a minimum of 55% of marks or its equivalent grade in the 7-point scale in each of the course work in order to be eligible to continue in the program and submit the Dissertation / Thesis.

Grade	Marks	Grade Points
O	95 - 100	10
A	90 - 94.99	9
B	80 - 89.99	8
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D	60 - 69.99	6
E	55 - 59.99	5
F	Less than 55	Fail

- b. If a student fails to clear the course work examination or remains absent, he /she should appear for the same next year along with the next batch. No separate exam will be conducted for the same.

(E) COURSE COMPLETION:

A Ph.D. scholar has to obtain minimum of 32 credits and maximum of 35 credits to have the Ph.D. degree awarded by Santosh deemed to be University.

Note:-

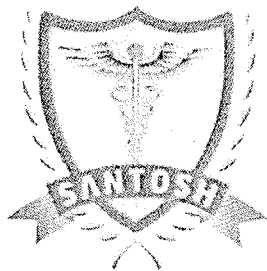
- a. Marks for **Paper-I** will be awarded by the respective Assessor/s as indicated under the heading of **Research Methodology, Biostatistics and Computer Basics** and recorded in the log book duly signed by Guide/HOD. The Result is to be sent through **RAC Coordinator** to the University.

- b. Marks for **Paper-II** will be awarded by the concerned Department Assessor/s as indicated under the heading of **Advanced**

Specialization in the subject area and recorded in the log book duly signed by Guide/HOD. The Result is to be sent through **RAC Coordinator** to the University.

- c. Marks for **Paper-III** will be awarded by the concerned Department Assessor/s as indicated under the heading of **Elective Paper** and recorded in the log book duly signed by Guide/HOD. The Result is to be sent through **RAC Coordinator** to the University.

(F) That **Course Completion Certificate and Mark Sheet** is to be provided to the Ph.D. students after declaration of result and also issue of the Provisional Certificate as under:-



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(Established u/s 3 of the UGC Act, 1956)

PH.D. COURSE WORK CERTIFICATE

This is to certify that Dr. _____, S/o. _____ bearing Registration No. _____, Batch _____ was declared successful Ph.D. in _____ by the Santosh Deemed to be University, Ghaziabad, NCR Delhi, vide Notification No. _____ dated _____.

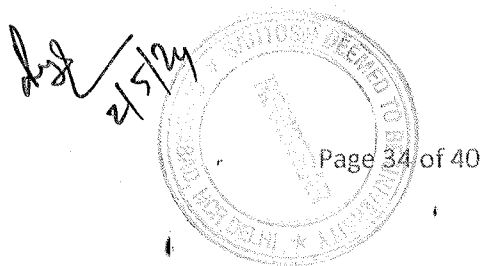
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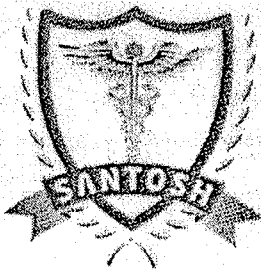
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Dated : _____

Checked By: _____

Verified By : _____





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STATEMENT OF MARKS

Sl. No	Paper	Subject	Max. Marks	Marks Obtained	Credits
1	Paper – 1	Research Methodology, Biostatistics and Computer Basics	100		8
2	Paper – 2	Advanced Specialization in the subject area	100		8
3	Paper – 3	Choose any one of the Elective	100		4
4		Dissertation/Thesis	200		8
5		Two Publications in indexed journal	-		1
6		Two Research paper presentation	-		1
7		Participation in Departmental research activities/teaching As per log book record	-		2
8		Optional Credit – Research Grants	-		3
Total			500		35

This is also certified that Dr. _____ obtained _____ credit points against maximum 32 credits as per University Grants Commission [UGC] Guidelines / Regulations dated 05.05.2016 vide Notification No. F,1-2/2009 (EC/PS) V(I) Vol. II

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Dated : _____

Checked By: _____

Verified By : _____

Signature
21/5/24

Signature
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