



GOVERNMENT OF WEST BENGAL

OFFICE OF THE PRINCIPAL

Rani Indira Debi Government Girls' College

formerly Jhargram Raj College (Girls' Wing)

P.O.- Jhargram Dist.- Jhargram PIN- 712507

Website: www.jrcgw.ac.in Email: jrcgirlswing@gmail.com Tel: 03221299907

Department of Physiology

Program offered: Bachelor of Science with Physiology (Multidisciplinary studies) (2024-25)

PROGRAMME OUTCOME

- PO-A: This programme makes learners accomplished to appreciate judgementally and academic demonstration of any sort.
- PO-B: This programme further motivates the students to commence systematic and structured research in several unexplored areas of knowledge.
- PO-C: This Programme also inspires the students to actively participate in different socio-economic-cultural activities of which they have been theoretically taught in classroom situations.
- PO-D: Students of this programme become capable of asking questions, critically appreciating a scholarly presentation of any form and debating upon the issues which invite cross-discussions.
- PO-E: Interactive aptitude is boosted up as an outcome of this programme and a student becomes competent enough to present his views independently.
- PO-F: The most significant outcome of the programme is that the students imbibe greater values of life when they pass out from here.

PROGRAMME SPECIFIC OUTCOMES

- Students are expected to gain detailed knowledge of different physiological processes in humans.
- Students are expected to learn about the structural and functional coordination between different cells, tissues, organs and systems.
- Students are expected to explore the impact of microbes on the human system as well as to understand the principles of immunology.
- Students are expected to understand the fundamental concepts of food and nutrition.
- Students are expected to get insights into pharmacology, exercise physiology, stress physiology and epidemiology.
- Students are expected to develop practical skills in laboratory techniques, including microscopy, staining, hematology and human experiments.

Officer-in-Charge
Rani Indira Debi Government Girls' College
(Government of West Bengal)
Jhargram-721507



GOVERNMENT OF WEST BENGAL

OFFICE OF THE PRINCIPAL

Rani Indira Debi Government Girls' College

formerly Jhargram Raj College (Girls' Wing)

P.O.- Jhargram Dist.- Jhargram PIN- 712507

Website: www.jrcgw.ac.in Email: jrcgirlswing@gmail.com Tel: 03221299907

- Students are expected to be prepared for further studies or careers in physiology and related fields through internships, networking, and professional experiences.

Overall, physiology as a subject in the 3-year undergraduate programme equips students with a deep understanding of the physiological processes, practical research skills, and the ability to apply their knowledge to real-world challenges in diagnosing diseases and developing treatment procedures.

Officer-in-Charge
Rani Indira Debi Government Girls' College
(Government of West Bengal)
Jhargram-721507



GOVERNMENT OF WEST BENGAL

OFFICE OF THE PRINCIPAL

Rani Indira Debi Government Girls' College

formerly Jhargram Raj College (Girls' Wing)

P.O.- Jhargram Dist.- Jhargram PIN- 712507

Website: www.jrcgw.ac.in Email: jrcgirlswing@gmail.com Tel: 03221299907

BACHELOR OF SCIENCE WITH PHYSIOLOGY (MULTIDISCIPLINARY STUDIES) IN UNDERGRADUATE SYLLABUS (CCFUP-NEP)

SEMESTER	COURSE CODE	COURSE NAME	COURSE OUTCOME
SEMESTER - I	PHYP MJ1-01	Fundamentals of body fluids, Immunity, Circulation and Respiration	<ul style="list-style-type: none">• Acquaint the students with the composition of blood and body fluid• Make the students aware of the overview, properties and function of the immune system• Prepare the students to grasp the cardiovascular system and circulation concepts.• Help the students to understand the physiology and mechanism of the respiratory system• Enable the students to explore haematology and perform human experiments through hands-on training.
	SEC-01	Clinical hematology	<ul style="list-style-type: none">• Enable the students to prepare blood film, identify different types of blood corpuscles, and determine differential leucocyte count, RBC, WBC count and platelet count• Prepare the students to determine blood group, ESR, PCV, MCV, MCH, MCHC and Hb.• Make the students aware of the different aspects of clinical hematology e.g., anaemia, thalassemia, leukaemia, haemophilia, Willebrand disease, blood parasites, and qualitative and quantitative disorders of platelets.

Officer-in-Charge
Rani Indira Debi Government Girls' College
(Government of West Bengal)
Jhargram-721507



GOVERNMENT OF WEST BENGAL

OFFICE OF THE PRINCIPAL

Rani Indira Debi Government Girls' College

formerly Jhargram Raj College (Girls' Wing)

P.O.- Jhargram Dist.- Jhargram PIN- 712507

Website: www.jrcgw.ac.in Email: jrcgirlswing@gmail.com Tel: 03221299907

MDC-01	Sports and fitness	<ul style="list-style-type: none">• Acquaint the students with the concept, objectives and importance of Play, Games and Sports.• Enable the students to develop the concepts of health, fitness, physical fitness and performance related physical fitness.• Make the students aware of the rules and regulations of the games e.g., football, handball, volleyball, basketball, badminton, table tennis, cricket, kabaddi, kho-kho etc.
VAC-01	ENVS-Environmental Studies	<ul style="list-style-type: none">• Acquaint the students with the multidisciplinary nature of environmental studies, scope and importance, concept of sustainability and sustainable development.• Enable the students to develop the understanding of structure and function of ecosystem, energy flow in ecosystem, food

Officer-in-Charge
Rani Indira Debi Government Girls' College
(Government of West Bengal)
Jhargram-721507



GOVERNMENT OF WEST BENGAL

OFFICE OF THE PRINCIPAL

Rani Indira Debi Government Girls' College

formerly Jhargram Raj College (Girls' Wing)

P.O.- Jhargram Dist.- Jhargram PIN- 712507

Website: www.jrcgw.ac.in Email: jrcgirlswing@gmail.com Tel: 03221299907

			<p>chain, food webs and ecological succession.</p> <ul style="list-style-type: none">• Make the students aware of the renewable and non-renewable natural resources; land resources, forest, water and energy resources.• Help the students to understand the levels of biological diversity: genetic, species and ecosystem diversity, conservation of biodiversity: <i>in-situ</i> and <i>ex-situ</i> conservation.• Enable the students to grab the concept of ecosystem and biodiversity services: ecological, economic, social, ethical, aesthetic and informational value.• Prepare the students to grasp the concept of environmental pollution: types, causes, effects and controls; air, water, soil and noise pollution.• Make the students aware of the climate change, global warming, ozone layer depletion, acid rain etc.• Acquaint the students with Environment Protection Act, Air Act, Water act, Forest Conservation Act, international agreements: Montreal and Kyoto protocol, environmental policy and gender issues.• Enable the students to learn human population growth, disaster management, environmental movements, environmental ethics, environmental conservation, environmental communication and public awareness.• Prepare the students to execute field work e.g., to visit an area to document environmental assets: river/ forest/ flora/ fauna etc., to visit a local polluted site- urban/rural/industrial/agricultural, to study of common plants, insects, birds and basic principles of identification, to study of simple ecosystems- pond, river, Delhi Ridge etc., to study disaster management and coastal ecosystem.
--	--	--	--

Officer-in-Charge
Rani Indira Debi Government Girls' College
(Government of West Bengal)
Jhargram-721507



GOVERNMENT OF WEST BENGAL

OFFICE OF THE PRINCIPAL

Rani Indira Debi Government Girls' College

formerly Jhargram Raj College (Girls' Wing)

P.O.- Jhargram Dist.- Jhargram PIN- 712507

Website: www.jrcgw.ac.in Email: jrcgirlswing@gmail.com Tel: 03221299907

	MDC-02	Community nutrition and Public health	<ul style="list-style-type: none">• Acquaint the students with the population, society, community and community health.• Make the students aware of the food, balanced diet, diet survey and nutrition.• Prepare the students to grasp the principles of epidemiology and epidemiological methods.• Help the students to understand the objectives and operation of nutrition intervention programmes.
			<ul style="list-style-type: none">• Enable the students to explore epidemiologic methods, observational and experimental studies through data collection, epidemiological measurements, field survey and diet survey execution.

Officer-in-Charge
Rani Indira Debi Government Girls' College
(Government of West Bengal)
Jhargram-721507



GOVERNMENT OF WEST BENGAL

OFFICE OF THE PRINCIPAL

Rani Indira Debi Government Girls' College

formerly Jhargram Raj College (Girls' Wing)

P.O.- Jhargram Dist.- Jhargram PIN- 712507

Website: www.jrcgw.ac.in Email: jrcgirlswing@gmail.com Tel: 03221299907

SEMESTER-II	VAC-02	Yoga and Wellness	<ul style="list-style-type: none">• Acquaint the students with the health and health problems in India.• Enable the students to grab the meaning, definition, dimensions and factors of health.• Make the students aware of the personal hygiene: care of eyes, ear, nose, skin, mouth, teeth and feet.• Prepare the students to grasp the meaning, definition, aim, objectives and principles of health education• Help the students to understand the aim, objectives and functions of health agencies: World Health Organization (WHO), United Nations Educational Scientific & Cultural Organization (UNESCO), United Nations International Children's Emergency Fund (UNICEF).• Enable the students to understand the concept, definition, components and factors affecting wellness significance with reference to positive lifestyle.• Prepare the students to learn life style diseases (hypokinetic): obesity and diabetes, life style diseases (hyperkinetic): hypertension and psychological disorder- stress.• Acquaint the students with the concepts of quality of life and wellness programme in reference to physical activities & Yoga.• Enable the students to perform Suryanamaskar, Asanas (Ardhachandrasana, Brikshasana, Padahastasana, ardhakurmasana, halasana, gomukhasana, bhujangasana, dhanurasana, shirsasana, sarbanganasana), pranayama & Kriya (Anulam Vilom, Bhrumri, Kapalbhathi) in practical classes.
-------------	--------	-------------------	---

Officer-in-Charge
Rani Indira Debi Government Girls' College
(Government of West Bengal)
Jhargram-721507